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

Roberto Bagnara[†]
Patricia M. Hill[‡]
Enea Zaffanella[§]

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[†]bagnara@cs.unipr.it, Department of Mathematics, University of Parma, Italy.
[‡]hill@comp.leeds.ac.uk, School of Computing, University of Leeds, U.K.
[§]zaffanella@cs.unipr.it, Department of Mathematics, University of Parma, Italy.

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1 Main Page

The Parma Polyhedra Library comes equipped with an interface for the Java language. The Java interface provides access to the numerical abstractions (convex polyhedra, BD shapes, octagonal shapes, etc.) implemented by the PPL library. A general introduction to the numerical abstractions, their representation in the PPL and the operations provided by the PPL is given in the main *PPL user manual*. Here we just describe those aspects that are specific to the Java interface. In the sequel, `prefix` is the path prefix under which the library has been installed (typically `/usr` or `/usr/local`).

Overview

Here is a list of notes with general information and advice on the use of the Java interface.

- When the Parma Polyhedra Library is configured, it will automatically test for the existence of the Java system (unless configuration options are passed to disable the build of the Java interface; see configuration option `--enable-interfaces`). If Java is correctly installed in a standard location, things will be arranged so that the Java interface is built and installed (see configuration option `--with-java` if you need to specify a non-standard location for the Java system).

- The Java interface files are all installed in the directory `prefix/lib/ppl`. Since this includes shared and dynamically loaded libraries, you must make your dynamic linker/loader aware of this fact. If you use a GNU/Linux system, try the commands `man ld.so` and `man ldconfig` for more information.

- Any application using the PPL should:
  - Load the PPL interface library by calling `System.load` and passing the full path of the dynamic shared object;
  - Make sure that only the intended version(s) of the library has been loaded, e.g., by calling static method `version()` in class `parma_polyhedra_library.Parma_Polyhedra_Library`;
  - Starting from version 0.11, initialize the interface by calling static method `initialize_library()`; when all library work is done, finalize the interface by calling `finalize_library()`.

- The numerical abstract domains available to the Java user as Java classes consist of the *simple* domains, *powersets* of a simple domain and *products* of simple domains. Note that the default configuration will only enable a subset of these domains (if you need a different set of domains, see configuration option `--enable-instantiations`).
  - The simple domains are:
    * convex polyhedra, which consist of C_Polyhedron and NNC_Polyhedron;
    * weakly relational, which consist of BD_Shape_N and Octagonal_Shape_N where N is one of the numeric types signed_char, short, int, long, long_long, mpz_class, mpq_class;
    * boxes which consist of Int8_Box, Int16_Box, Int32_Box, Int64_Box, Uint8_Box, Uint16_Box, Uint32_Box, Uint64_Box, Float_Box, Double_Box, Long_Double_Box, Z_Box, Rational_Box; and
    * the Grid domain.
  - The powerset domains are Pointset_Powerset_S where S is a simple domain.
  - The product domains consist of Direct_Product_S_T, Smash_Product_S_T and Constraints_-Product_S_T where S and T are simple domains.

- In the following, any of the above numerical abstract domains is called a PPL *domain* and any element of a PPL domain is called a *PPL object*.

- A Java program can create a new object for a PPL domain by using the constructors for the class corresponding to the domain.

- For a PPL object with space dimension `k`, the identifiers used for the PPL variables must lie between 0 and $k - 1$ and correspond to the indices of the associated Cartesian axes. For example, when using methods that combine PPL polyhedra or add constraints or generators to a representation of a PPL polyhedron, the polyhedra referenced and any constraints or generators in the call should follow all the (space) dimension-compatibility rules stated in Section *Representations of Convex Polyhedra* of the main PPL user manual.

- As explained above, a polyhedron has a fixed topology C or NNC, that is determined at the time of its initialization. All subsequent operations on the polyhedron must respect all the topological compatibility rules stated in Section *Representations of Convex Polyhedra* of the main PPL user manual.

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9 Module Documentation

9.1 Java Language Interface

Classes

- class parma_polyhedra_library::Artificial_Parameter_Sequence
  A sequence of artificial parameters.
- class parma_polyhedra_library::By_Reference< T >
  An utility class implementing mutable and non-mutable call-by-reference.
- class parma_polyhedra_library::Coefficient
  A PPL coefficient.
- class parma_polyhedra_library::Congruence
  A linear congruence.
- class parma_polyhedra_library::Congruence_System
  A system of congruences.
- class parma_polyhedra_library::Constraint
  A linear equality or inequality.
- class parma_polyhedra_library::Constraint_System
  A system of constraints.
- class parma_polyhedra_library::Domain_Error_Exception
  Exceptions caused by domain errors.
- class parma_polyhedra_library::Generator
  A line, ray, point or closure point.
- class parma_polyhedra_library::Generator_System
  A system of generators.
- class parma_polyhedra_library::Grid_Generator
  A grid line, parameter or grid point.
- class parma_polyhedra_library::Grid_Generator_System
  A system of grid generators.

- class parma_polyhedra_library::Invalid_Argument_Exception
  Exceptions caused by invalid arguments.
- class parma_polyhedra_library::IO
  A class collecting I/O functions.
- class parma_polyhedra_library::Length_Error_Exception
  Exceptions caused by too big length/size values.
- class parma_polyhedra_library::Linear_Expression
  A linear expression.
- class parma_polyhedra_library::Linear_Expression_Coefficient
  A linear expression built from a coefficient.
- class parma_polyhedra_library::Linear_Expression_Difference
  The difference of two linear expressions.
- class parma_polyhedra_library::Linear_Expression_Sum
  The sum of two linear expressions.
- class parma_polyhedra_library::Linear_Expression_Times
  The product of a linear expression and a coefficient.
- class parma_polyhedra_library::Linear_Expression_Unary_Minus
  The negation of a linear expression.
- class parma_polyhedra_library::Linear_Expression_Variable
  A linear expression built from a variable.
- class parma_polyhedra_library::Logic_Error_Exception
  Exceptions due to errors in low-level routines.
- class parma_polyhedra_library::MIP_Problem
  A Mixed Integer (linear) Programming problem.
- class parma_polyhedra_library::Overflow_Error_Exception
  Exceptions due to overflow errors.
- class parma_polyhedra_library::Pair< K, V >
  A pair of values of type K and V.
- class parma_polyhedra_library::Parma_Polyhedra_Library
  A class collecting library-level functions.
- class parma_polyhedra_library::Partial_Function
  A partial function on space dimension indices.
- class parma_polyhedra_library::PIP_Problem
  A Parametric Integer Programming problem.

- class parma_polyhedra_library::Poly_Con_Relation

  The relation between a polyhedron and a constraint.

- class parma_polyhedra_library::PPL_Object

  Smart pointer to a PPL, C++ object.

- class parma_polyhedra_library::Timeout_Exception

  Exceptions caused by timeout expiring.

- class parma_polyhedra_library::Variable

  A dimension of the vector space.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

Enumerations

- enum parma_polyhedra_library::Bounded_Integer_Type_Overflow { parma_polyhedra_library::OVERFLOW_WRAPS, parma_polyhedra_library::OVERFLOW_UNDEFINED, parma_polyhedra_library::OVERFLOW_IMPOSSIBLE }

  Overflow behavior of bounded integer types.

- enum parma_polyhedra_library::Bounded_Integer_Type_Representation { parma_polyhedra_library::UNSIGNED, parma_polyhedra_library::SIGNED_2_COMPLEMENT }

  Representation of bounded integer types.

- enum parma_polyhedra_library::Bounded_Integer_Type_Width {

  parma_polyhedra_library::BITS_8, parma_polyhedra_library::BITS_16, parma_polyhedra_library::BITS_32, parma_polyhedra_library::BITS_64,

  parma_polyhedra_library::BITS_128 }

  Widths of bounded integer types.

- enum parma_polyhedra_library::Complexity_Class { parma_polyhedra_library::POLYNOMIAL_COMPLEXITY, parma_polyhedra_library::SIMPLEX_COMPLEXITY, parma_polyhedra_library::ANY_COMPLEXITY }

  Possible Complexities.

- enum parma_polyhedra_library::Control_Parameter_Name { parma_polyhedra_library::PRICING }

  Names of MIP problems' control parameters.

- enum parma_polyhedra_library::Control_Parameter_Value { parma_polyhedra_library::PRICING_STEEPEST_EDGE_FLOAT, parma_polyhedra_library::PRICING_STEEPEST_EDGE_EXACT, parma_polyhedra_library::PRICING_TEXTBOOK }

Possible values for MIP problem's control parameters.

- enum parma_polyhedra_library::Degenerate_Element { parma_polyhedra_library::UNIVERSE, parma_polyhedra_library::EMPTY }

  Kinds of degenerate abstract elements.

- enum parma_polyhedra_library::Generator_Type { parma_polyhedra_library::LINE, parma_polyhedra_library::RAY, parma_polyhedra_library::POINT, parma_polyhedra_library::CLOSURE_POINT }

  The generator type.

- enum parma_polyhedra_library::Grid_Generator_Type { parma_polyhedra_library::LINE, parma_polyhedra_library::PARAMETER, parma_polyhedra_library::POINT }

  The grid generator type.

- enum parma_polyhedra_library::MIP_Problem_Status { parma_polyhedra_library::UNFEASIBLE_MIP_PROBLEM, parma_polyhedra_library::UNBOUNDED_MIP_PROBLEM, parma_polyhedra_library::OPTIMIZED_MIP_PROBLEM }

  Possible outcomes of the MIP_Problem solver.

- enum parma_polyhedra_library::Optimization_Mode { parma_polyhedra_library::MINIMIZATION, parma_polyhedra_library::MAXIMIZATION }

  Possible optimization modes.

- enum parma_polyhedra_library::PIP_Problem_Control_Parameter_Name { parma_polyhedra_library::CUTTING_STRATEGY, parma_polyhedra_library::PIVOT_ROW_STRATEGY }

  Names of PIP problems' control parameters.

- enum parma_polyhedra_library::PIP_Problem_Control_Parameter_Value {

  parma_polyhedra_library::CUTTING_STRATEGY_FIRST, parma_polyhedra_library::CUTTING_STRATEGY_DEEPEST, parma_polyhedra_library::CUTTING_STRATEGY_ALL, parma_polyhedra_library::PIVOT_ROW_STRATEGY_FIRST,

  parma_polyhedra_library::PIVOT_ROW_STRATEGY_MAX_COLUMN }

  Possible values for PIP problems' control parameters.

- enum parma_polyhedra_library::PIP_Problem_Status { parma_polyhedra_library::UNFEASIBLE_PIP_PROBLEM, parma_polyhedra_library::OPTIMIZED_PIP_PROBLEM }

  Possible outcomes of the PIP_Problem solver.

- enum parma_polyhedra_library::Relation_Symbol {

  parma_polyhedra_library::LESS_THAN, parma_polyhedra_library::LESS_OR_EQUAL, parma_polyhedra_library::EQUAL, parma_polyhedra_library::GREATER_OR_EQUAL,

  parma_polyhedra_library::GREATER_THAN }

  Relation symbols.

9.1.1 Detailed Description

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

9.1.2 Enumeration Type Documentation

9.1.2.1 enum parma_polyhedra_library::Bounded_Integer_Type_Overflow

Overflow behavior of bounded integer types.

Enumerator:

OVERFLOW_WRAPS On overflow, wrapping takes place.

OVERFLOW_UNDEFINED On overflow, the result is undefined.

OVERFLOW_IMPOSSIBLE Overflow is impossible.

Definition at line 28 of file Bounded_Integer_Type_Overflow.java.

9.1.2.2 enum parma_polyhedra_library::Bounded_Integer_Type_Representation

Representation of bounded integer types.

Enumerator:

UNSIGNED Unsigned binary.

SIGNED_2_COMPLEMENT Signed binary where negative values are represented by the two's complement of the absolute value.

Definition at line 28 of file Bounded_Integer_Type_Representation.java.

9.1.2.3 enum parma_polyhedra_library::Bounded_Integer_Type_Width

Widths of bounded integer types.

Enumerator:

BITS_8 Minimization is requested.

BITS_16 16 bits.

BITS_32 32 bits.

BITS_64 64 bits.

BITS_128 128 bits.

Definition at line 28 of file Bounded_Integer_Type_Width.java.

9.1.2.4 enum parma_polyhedra_library::Complexity_Class

Possible Complexities.

Enumerator:

POLYNOMIAL_COMPLEXITY Worst-case polynomial complexity.

SIMPLEX_COMPLEXITY Worst-case exponential complexity but typically polynomial behavior.

ANY_COMPLEXITY Any complexity.

Definition at line 28 of file Complexity_Class.java.

9.1.2.5 enum parma_polyhedra_library::Control_Parameter_Name

Names of MIP problems' control parameters.

Enumerator:

PRICING The pricing rule.

Definition at line 28 of file Control_Parameter_Name.java.

9.1.2.6 enum parma_polyhedra_library::Control_Parameter_Value

Possible values for MIP problem's control parameters.

Enumerator:

PRICING_STEEPEST_EDGE_FLOAT Steepest edge pricing method, using floating points (default).

PRICING_STEEPEST_EDGE_EXACT Steepest edge pricing method, using Coefficient.

PRICING_TEXTBOOK Textbook pricing method.

Definition at line 28 of file Control_Parameter_Value.java.

9.1.2.7 enum parma_polyhedra_library::Degenerate_Element

Kinds of degenerate abstract elements.

Enumerator:

UNIVERSE The universe element, i.e., the whole vector space.

EMPTY The empty element, i.e., the empty set.

Definition at line 28 of file Degenerate_Element.java.

9.1.2.8 enum parma_polyhedra_library::Generator_Type

The generator type.

Enumerator:

LINE The generator is a line.
RAY The generator is a ray.
POINT The generator is a point.
CLOSURE_POINT The generator is a closure point.

Definition at line 28 of file Generator_Type.java.

9.1.2.9 enum parma_polyhedra_library::Grid_Generator_Type

The grid generator type.

Enumerator:

LINE The generator is a line.
PARAMETER The generator is a parameter.
POINT The generator is a point.

Definition at line 28 of file Grid_Generator_Type.java.

9.1.2.10 enum parma_polyhedra_library::MIP_Problem_Status

Possible outcomes of the MIP_Problem solver.

Enumerator:

UNFEASIBLE_MIP_PROBLEM The problem is unfeasible.
UNBOUNDED_MIP_PROBLEM The problem is unbounded.
OPTIMIZED_MIP_PROBLEM The problem has an optimal solution.

Definition at line 28 of file MIP_Problem_Status.java.

9.1.2.11 enum parma_polyhedra_library::Optimization_Mode

Possible optimization modes.

Enumerator:

MINIMIZATION Minimization is requested.
MAXIMIZATION Maximization is requested.

Definition at line 28 of file Optimization_Mode.java.

9.1.2.12 enum parma_polyhedra_library::PIP_Problem_Control_Parameter_Name

Names of PIP problems' control parameters.

Enumerator:

CUTTING_STRATEGY The cutting strategy rule.

PIVOT_ROW_STRATEGY The pivot row strategy rule.

Definition at line 28 of file PIP_Problem_Control_Parameter_Name.java.

9.1.2.13 enum parma_polyhedra_library::PIP_Problem_Control_Parameter_Value

Possible values for PIP problems' control parameters.

Enumerator:

CUTTING_STRATEGY_FIRST Choose the first non-integer row.

CUTTING_STRATEGY_DEEPEST Choose row which generates the deepest cut.

CUTTING_STRATEGY_ALL Always generate all possible cuts.

PIVOT_ROW_STRATEGY_FIRST Choose the first row with negative parameter sign.

PIVOT_ROW_STRATEGY_MAX_COLUMN Choose the row which generates the lexico-maximal pivot column.

Definition at line 28 of file PIP_Problem_Control_Parameter_Value.java.

9.1.2.14 enum parma_polyhedra_library::PIP_Problem_Status

Possible outcomes of the PIP_Problem solver.

Enumerator:

UNFEASIBLE_PIP_PROBLEM The problem is unsatisfiable.

OPTIMIZED_PIP_PROBLEM The problem has an optimal solution.

Definition at line 28 of file PIP_Problem_Status.java.

9.1.2.15 enum parma_polyhedra_library::Relation_Symbol

Relation symbols.

Enumerator:

LESS_THAN Less than.

LESS_OR_EQUAL Less than or equal to.

EQUAL Equal to.

GREATER_OR_EQUAL Greater than or equal to.

GREATER_THAN Greater than.

Definition at line 28 of file Relation_Symbol.java.

10 Namespace Documentation

10.1 Parma_Polyhedra_Library Namespace Reference

Namespaces

- namespace Interfaces

10.2 parma_polyhedra_library Namespace Reference

The PPL Java interface package.

Classes

- class Artificial_Parameter
- class Artificial_Parameter_Sequence

  A sequence of artificial parameters.

- class By_Reference< T >

  An utility class implementing mutable and non-mutable call-by-reference.

- class Coefficient

  A PPL coefficient.

- class Congruence

  A linear congruence.

- class Congruence_System

  A system of congruences.

- class Constraint

  A linear equality or inequality.

- class Constraint_System

  A system of constraints.

- class Domain_Error_Exception

  Exceptions caused by domain errors.

- class Generator

A line, ray, point or closure point.

- class Generator_System

  A system of generators.

- class Grid_Generator

  A grid line, parameter or grid point.

- class Grid_Generator_System

  A system of grid generators.

- class Invalid_Argument_Exception

  Exceptions caused by invalid arguments.

- class IO

  A class collecting I/O functions.

- class Length_Error_Exception

  Exceptions caused by too big length/size values.

- class Linear_Expression

  A linear expression.

- class Linear_Expression_Coefficient

  A linear expression built from a coefficient.

- class Linear_Expression_Difference

  The difference of two linear expressions.

- class Linear_Expression_Sum

  The sum of two linear expressions.

- class Linear_Expression_Times

  The product of a linear expression and a coefficient.

- class Linear_Expression_Unary_Minus

  The negation of a linear expression.

- class Linear_Expression_Variable

  A linear expression built from a variable.

- class Logic_Error_Exception

  Exceptions due to errors in low-level routines.

- class MIP_Problem

  A Mixed Integer (linear) Programming problem.

- class Overflow_Error_Exception

  Exceptions due to overflow errors.

- class Pair< K, V >

  A pair of values of type K and V.

- class Parma_Polyhedra_Library

  A class collecting library-level functions.

- class Partial_Function

  A partial function on space dimension indices.

- class PIP_Decision_Node

  An internal node of the PIP solution tree.

- class PIP_Problem

  A Parametric Integer Programming problem.

- class PIP_Solution_Node

  A leaf node of the PIP solution tree.

- class PIP_Tree_Node

  A node of the PIP solution tree.

- class Poly_Con_Relation

  The relation between a polyhedron and a constraint.

- class Poly_Gen_Relation

  The relation between a polyhedron and a generator.

- class PPL_Object

  Smart pointer to a PPL, C++ object.

- class Timeout_Exception

  Exceptions caused by timeout expiring.

- class Variable

  A dimension of the vector space.

- class Variables_Set

  A java.util.TreeSet of variables' indexes.

- class BD_Shape_double

  Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<double>

- class BD_Shape_float

  Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<float>

- class BD_Shape_int16_t

  Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<int16_t>

- class BD_Shape_int32_t

  Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<int32_t>

- class BD_Shape_int64_t

  Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<int64_t>

- class BD_Shape_int8_t

  Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<int8_t>

- class BD_Shape_long_double

  Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<long double>

- class BD_Shape_mpq_class

  Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<mpq_class>

- class BD_Shape_mpz_class

  Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<mpz_class>

- class C_Polyhedron

  Java class interfacing C++ Parma_Polyhedra_Library::C_Polyhedron.

- class Constraints_Product_C_Polyhedron_Grid

  Java class interfacing C++ Parma_Polyhedra_Library::Constraints_Product<C_Polyhedron,Grid>

- class Constraints_Product_Grid_C_Polyhedron

  Java class interfacing C++ Parma_Polyhedra_Library::Constraints_Product<Grid,C_Polyhedron>

- class Constraints_Product_Grid_NNC_Polyhedron

  Java class interfacing C++ Parma_Polyhedra_Library::Constraints_Product<Grid,NNC_Polyhedron>

- class Constraints_Product_NNC_Polyhedron_Grid

  Java class interfacing C++ Parma_Polyhedra_Library::Constraints_Product<NNC_Polyhedron,Grid>

- class Double_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Double_Box.

- class Float_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Float_Box.

- class Grid

  Java class interfacing C++ Parma_Polyhedra_Library::Grid.

- class Int16_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Int16_Box.

- class Int32_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Int32_Box.

- class Int64_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Int64_Box.

- class Int8_Box

Java class interfacing C++ Parma_Polyhedra_Library::Int8_Box.

- class Long_Double_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Long_Double_Box.

- class NNC_Polyhedron

  Java class interfacing C++ Parma_Polyhedra_Library::NNC_Polyhedron.

- class Octagonal_Shape_double

  Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<double>

- class Octagonal_Shape_float

  Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<float>

- class Octagonal_Shape_int16_t

  Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<int16_t>

- class Octagonal_Shape_int32_t

  Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<int32_t>

- class Octagonal_Shape_int64_t

  Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<int64_t>

- class Octagonal_Shape_int8_t

  Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<int8_t>

- class Octagonal_Shape_long_double

  Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<long double>

- class Octagonal_Shape_mpq_class

  Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<mpq_class>

- class Octagonal_Shape_mpz_class

  Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<mpz_class>

- class Pointset_Powerset_BD_Shape_double

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<double> >

- class Pointset_Powerset_BD_Shape_double_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<double> >:: iterator.

- class Pointset_Powerset_BD_Shape_float

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<float> >

- class Pointset_Powerset_BD_Shape_float_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<float> >:: iterator.

- class Pointset_Powerset_BD_Shape_int16_t

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int16_t> >

- class Pointset_Powerset_BD_Shape_int16_t_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int16_t> >:: iterator.

- class Pointset_Powerset_BD_Shape_int32_t

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int32_t> >

- class Pointset_Powerset_BD_Shape_int32_t_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int32_t> >:: iterator.

- class Pointset_Powerset_BD_Shape_int64_t

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int64_t> >

- class Pointset_Powerset_BD_Shape_int64_t_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int64_t> >:: iterator.

- class Pointset_Powerset_BD_Shape_int8_t

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int8_t> >

- class Pointset_Powerset_BD_Shape_int8_t_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int8_t> >:: iterator.

- class Pointset_Powerset_BD_Shape_long_double

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<long double> >

- class Pointset_Powerset_BD_Shape_long_double_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<long double> >:: iterator.

- class Pointset_Powerset_BD_Shape_mpq_class

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<mpq_class> >

- class Pointset_Powerset_BD_Shape_mpq_class_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<mpq_class> >:: iterator.

- class Pointset_Powerset_BD_Shape_mpz_class

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<mpz_class> >

- class Pointset_Powerset_BD_Shape_mpz_class_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<mpz_class> >:: iterator.

- class Pointset_Powerset_C_Polyhedron

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<C_Polyhedron>

- class Pointset_Powerset_C_Polyhedron_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<C_Polyhedron>:: iterator.

- class Pointset_Powerset_Double_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Double_Box>

- class Pointset_Powerset_Double_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Double_Box>:: iterator.

- class Pointset_Powerset_Float_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Float_Box>

- class Pointset_Powerset_Float_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Float_Box>:: iterator.

- class Pointset_Powerset_Grid

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Grid>

- class Pointset_Powerset_Grid_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Grid>:: iterator.

- class Pointset_Powerset_Int16_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int16_Box>

- class Pointset_Powerset_Int16_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int16_Box>:: iterator.

- class Pointset_Powerset_Int32_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int32_Box>

- class Pointset_Powerset_Int32_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int32_Box>:: iterator.

- class Pointset_Powerset_Int64_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int64_Box>

- class Pointset_Powerset_Int64_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int64_Box>:: iterator.

- class Pointset_Powerset_Int8_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int8_Box>

- class Pointset_Powerset_Int8_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int8_Box>:: iterator.

- class Pointset_Powerset_Long_Double_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Long_Double_Box>

- class Pointset_Powerset_Long_Double_Box_Iterator

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Long_Double_Box>:: iterator.

- class Pointset_Powerset_NNC_Polyhedron

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<NNC_Polyhedron>

- class Pointset_Powerset_NNC_Polyhedron_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<NNC_Polyhedron>:: iterator.

- class Pointset_Powerset_Octagonal_Shape_double

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<double> >

- class Pointset_Powerset_Octagonal_Shape_double_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<double> >:: iterator.

- class Pointset_Powerset_Octagonal_Shape_float

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<float> >

- class Pointset_Powerset_Octagonal_Shape_float_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<float> >:: iterator.

- class Pointset_Powerset_Octagonal_Shape_int16_t

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int16_t> >

- class Pointset_Powerset_Octagonal_Shape_int16_t_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int16_t> >:: iterator.

- class Pointset_Powerset_Octagonal_Shape_int32_t

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int32_t> >

- class Pointset_Powerset_Octagonal_Shape_int32_t_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int32_t> >:: iterator.

- class Pointset_Powerset_Octagonal_Shape_int64_t

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int64_t> >

- class Pointset_Powerset_Octagonal_Shape_int64_t_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int64_t> >:: iterator.

- class Pointset_Powerset_Octagonal_Shape_int8_t

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int8_t> >

- class Pointset_Powerset_Octagonal_Shape_int8_t_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int8_t> >:: iterator.

- class Pointset_Powerset_Octagonal_Shape_long_double

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<long double> >

- class Pointset_Powerset_Octagonal_Shape_long_double_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<long double> >:: iterator.

- class Pointset_Powerset_Octagonal_Shape_mpq_class

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<mpq_class> >

- class Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<mpq_class> >:: iterator.

- class Pointset_Powerset_Octagonal_Shape_mpz_class

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<mpz_class> >

- class Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<mpz_class> >:: iterator.

- class Pointset_Powerset_Rational_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Rational_Box>

- class Pointset_Powerset_Rational_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Rational_Box>:: iterator.

- class Pointset_Powerset_Uint16_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint16_Box>

- class Pointset_Powerset_Uint16_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint16_Box>:: iterator.

- class Pointset_Powerset_Uint32_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint32_Box>

- class Pointset_Powerset_Uint32_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint32_Box>:: iterator.

- class Pointset_Powerset_Uint64_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint64_Box>

- class Pointset_Powerset_Uint64_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint64_Box>:: iterator.

- class Pointset_Powerset_Uint8_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint8_Box>

- class Pointset_Powerset_Uint8_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint8_Box>:: iterator.

- class Pointset_Powerset_Z_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Z_Box>

- class Pointset_Powerset_Z_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Z_Box>:: iterator.

- class Polyhedron

  Java class interfacing C++ Parma_Polyhedra_Library::Polyhedron.

- class Rational_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Rational_Box.

- class Termination
- class Uint16_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Uint16_Box.

- class Uint32_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Uint32_Box.

- class Uint64_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Uint64_Box.

- class Uint8_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Uint8_Box.

- class Z_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Z_Box.

Enumerations

- enum Bounded_Integer_Type_Overflow { OVERFLOW_WRAPS, OVERFLOW_UNDEFINED, OVERFLOW_IMPOSSIBLE }

  Overflow behavior of bounded integer types.

- enum Bounded_Integer_Type_Representation { UNSIGNED, SIGNED_2_COMPLEMENT }

  Representation of bounded integer types.

- enum Bounded_Integer_Type_Width {
  BITS_8, BITS_16, BITS_32, BITS_64,
  BITS_128 }

  Widths of bounded integer types.

- enum Complexity_Class { POLYNOMIAL_COMPLEXITY, SIMPLEX_COMPLEXITY, ANY_-COMPLEXITY }

  Possible Complexities.

- enum Control_Parameter_Name { PRICING }

  Names of MIP problems' control parameters.

- enum Control_Parameter_Value { PRICING_STEEPEST_EDGE_FLOAT, PRICING_-STEEPEST_EDGE_EXACT, PRICING_TEXTBOOK }

  Possible values for MIP problem's control parameters.

- enum Degenerate_Element { UNIVERSE, EMPTY }

  Kinds of degenerate abstract elements.

- enum Generator_Type { LINE, RAY, POINT, CLOSURE_POINT }

  The generator type.

- enum Grid_Generator_Type { LINE, PARAMETER, POINT }

  The grid generator type.

- enum MIP_Problem_Status { UNFEASIBLE_MIP_PROBLEM, UNBOUNDED_MIP_PROBLEM, OPTIMIZED_MIP_PROBLEM }

  Possible outcomes of the MIP_Problem solver.

- enum Optimization_Mode { MINIMIZATION, MAXIMIZATION }

  Possible optimization modes.

- enum PIP_Problem_Control_Parameter_Name { CUTTING_STRATEGY, PIVOT_ROW_-STRATEGY }

  Names of PIP problems' control parameters.

- enum PIP_Problem_Control_Parameter_Value {

  CUTTING_STRATEGY_FIRST, CUTTING_STRATEGY_DEEPEST, CUTTING_STRATEGY_-ALL, PIVOT_ROW_STRATEGY_FIRST,

  PIVOT_ROW_STRATEGY_MAX_COLUMN }

  Possible values for PIP problems' control parameters.

- enum PIP_Problem_Status { UNFEASIBLE_PIP_PROBLEM, OPTIMIZED_PIP_PROBLEM }

  Possible outcomes of the PIP_Problem solver.

- enum Relation_Symbol {

  LESS_THAN, LESS_OR_EQUAL, EQUAL, GREATER_OR_EQUAL,

  GREATER_THAN }

  Relation symbols.

10.2.1 Detailed Description

The PPL Java interface package. All classes, interfaces and enums related to the Parma Polyhedra Library Java interface are included in this package.

10.3 Parma_Polyhedra_Library::Interfaces Namespace Reference

Namespaces

- namespace Java

10.4 Parma_Polyhedra_Library::Interfaces::Java Namespace Reference

Classes

- struct Java_ExceptionOccurred
- class timeout_exception
- class deterministic_timeout_exception
- class Java_Class_Cache

  A cache for global references to Java classes.

- struct Java_FMID_Cache

  A cache for field and method IDs of Java classes.

Functions

- void handle_exception (JNIEnv *env, const std::overflow_error &e)
- void handle_exception (JNIEnv *env, const std::invalid_argument &e)
- void handle_exception (JNIEnv *env, const std::logic_error &e)
- void handle_exception (JNIEnv *env, const std::length_error &e)
- void handle_exception (JNIEnv *env, const std::domain_error &e)
- void handle_exception (JNIEnv *env, const std::bad_alloc &)
- void handle_exception (JNIEnv *env, const std::exception &e)
- void handle_exception (JNIEnv *env, const timeout_exception &)
- void handle_exception (JNIEnv *env, const deterministic_timeout_exception &)
- void handle_exception (JNIEnv *env)
- void reset_timeout ()
- void reset_deterministic_timeout ()
- jobject build_java_poly_gen_relation (JNIEnv *env, Poly_Gen_Relation &r)

  Builds a Java parma_polyhedra_library::Poly_Gen_Relation from C++ Poly_Gen_Relation `r`.

- jobject build_java_poly_con_relation (JNIEnv *env, Poly_Con_Relation &r)

  Builds a Java parma_polyhedra_library::Poly_Con_Relation from C++ Poly_Con_Relation `r`.

- Congruence build_cxx_congruence (JNIEnv *env, jobject j_cg)

  Builds a C++ Congruence from Java parma_polyhedra_library::Congruence `j_cg`.

- PIP_Tree_Node::Artificial_Parameter build_cxx_artificial_parameter (JNIEnv *env, jobject j_ap)

Builds a C++ Artificial_Parameter from Java parma_polyhedra_library::Artificial_Parameter `j_artificial_parameter`.

- jobject bool_to_j_boolean_class (JNIEnv *env, const bool value)

  Builds a Java Boolean from C++ bool `value`.

- jobject j_long_to_j_long_class (JNIEnv *env, jlong value)

  Builds a Java Long from Java long `value`.

- jlong j_long_class_to_j_long (JNIEnv *env, jobject j_long)

  Returns the Java long stored in Java Long `j_long`.

- jobject j_int_to_j_integer (JNIEnv *env, jint value)

  Builds a Java Integer from Java int `value`.

- jint j_integer_to_j_int (JNIEnv *env, jobject j_integer)

  Returns the Java int stored in Java Integer `j_integer`.

- Variables_Set build_cxx_variables_set (JNIEnv *env, jobject v_set)

  Builds a C++ Variables_Set from Java parma_polyhedra_library::Variables_Set `v_set`.

- jobject build_java_variables_set (JNIEnv *env, const Variables_Set &v_set)

  Builds a Java parma_polyhedra_library::Variables_Set from C++ Variables_Set `v_set`.

- Bounded_Integer_Type_Overflow build_cxx_bounded_overflow (JNIEnv *env, jobject j_bounded_overflow)

  Builds a C++ Bounded_Integer_Type_Overflow from Java parma_polyhedra_library::Bounded_Integer_Type_Overflow `j_bounded_overflow`.

- Bounded_Integer_Type_Representation build_cxx_bounded_rep (JNIEnv *env, jobject j_bounded_rep)

  Builds a C++ Bounded_Integer_Type_Representation from Java parma_polyhedra_library::Bounded_Integer_Type_Representation `j_bounded_rep`.

- Bounded_Integer_Type_Width build_cxx_bounded_width (JNIEnv *env, jobject j_bounded_width)

  Builds a C++ Bounded_Integer_Type_Width from Java parma_polyhedra_library::Bounded_Integer_Type_Width `j_bounded_width`.

- Relation_Symbol build_cxx_relsym (JNIEnv *env, jobject j_relsym)

  Builds a C++ Relation_Symbol from Java parma_polyhedra_library::Relation_Symbol `j_relsym`.

- Optimization_Mode build_cxx_optimization_mode (JNIEnv *env, jobject j_opt_mode)

  Builds a C++ Optimization_Mode from Java parma_polyhedra_library::Optimization_Mode `j_opt_mode`.

- jobject build_java_mip_status (JNIEnv *env, const MIP_Problem_Status &mip_status)

  Builds a Java parma_polyhedra_library::MIP_Problem_Status from C++ MIP_Problem_Status `mip_status`.

- jobject build_java_pip_status (JNIEnv *env, const PIP_Problem_Status &pip_status)

Builds a Java parma_polyhedra_library::PIP_Problem_Status from C++ PIP_Problem_Status `pip_status`.

- jobject build_java_optimization_mode (JNIEnv *env, const Optimization_Mode &opt_mode)

  Builds a Java parma_polyhedra_library::Optimization_Mode from C++ Optimization_Mode `opt_mode`.

- MIP_Problem::Control_Parameter_Name build_cxx_control_parameter_name (JNIEnv *env, jobject j_cp_name)

  Builds a C++ MIP_Problem::Control_Parameter_Name from Java parma_polyhedra_library::Control_Parameter_Name `j_cp_name`.

- jobject build_java_control_parameter_name (JNIEnv *env, const MIP_Problem::Control_Parameter_Name &cp_name)

  Builds a Java parma_polyhedra_library::Control_Parameter_Name from C++ MIP_Problem::Control_Parameter_Name `cp_name`.

- MIP_Problem::Control_Parameter_Value build_cxx_control_parameter_value (JNIEnv *env, jobject j_cp_value)

  Builds a C++ MIP_Problem::Control_Parameter_Value from Java parma_polyhedra_library::Control_Parameter_Value `j_cp_value`.

- jobject build_java_control_parameter_value (JNIEnv *env, const MIP_Problem::Control_Parameter_Value &cp_value)

  Builds a Java parma_polyhedra_library::Control_Parameter_Value from C++ MIP_Problem::Control_Parameter_Value `cp_value`.

- PIP_Problem::Control_Parameter_Name build_cxx_pip_problem_control_parameter_name (JNIEnv *env, jobject j_cp_name)

  Builds a C++ PIP_Problem::Control_Parameter_Name from Java parma_polyhedra_library::PIP_Problem_Control_Parameter_Name `j_cp_name`.

- jobject build_pip_problem_java_control_parameter_name (JNIEnv *env, const PIP_Problem::Control_Parameter_Name &cp_name)
- PIP_Problem::Control_Parameter_Value build_cxx_pip_problem_control_parameter_value (JNIEnv *env, jobject j_cp_value)

  Builds a C++ PIP_Problem::Control_Parameter_Value from Java parma_polyhedra_library::PIP_Problem_Control_Parameter_Value `j_cp_value`.

- jobject build_java_pip_problem_control_parameter_value (JNIEnv *env, const PIP_Problem::Control_Parameter_Value &cp_value)

  Builds a Java parma_polyhedra_library::Control_Parameter_Value from C++ PIP_Problem::Control_Parameter_Value `cp_value`.

- Constraint build_cxx_constraint (JNIEnv *env, jobject j_constraint)

  Builds a C++ Constraint from Java parma_polyhedra_library::Constraint `j_constraint`.

- Linear_Expression build_cxx_linear_expression (JNIEnv *env, jobject j_le)

  Builds a C++ Linear_Expression from Java parma_polyhedra_library::Linear_Expression `j_le`.

- Generator build_cxx_generator (JNIEnv *env, jobject j_g)

  Builds a C++ Generator from Java parma_polyhedra_library::Generator `j_g`.

- Grid_Generator build_cxx_grid_generator (JNIEnv *env, jobject j_g)

  Builds a C++ Grid_Generator from Java parma_polyhedra_library::Grid_Generator `j_g`.

- jobject build_java_linear_expression_coefficient (JNIEnv *env, const Coefficient &coeff)

  Builds a Java parma_polyhedra_library::Linear_Expression_Coefficient from C++ Coefficient `coeff`.

- void set_generator (JNIEnv *env, jobject dst, jobject src)

  Sets Java parma_polyhedra_library::Generator `dst` *to have the same value as* `src`.

- void set_pair_element (JNIEnv *env, jobject dst_pair, int arg, jobject src)

  Assigns `src` *to one of the fields of parma_polyhedra_library::Pair object* `dst_pair`.

- jobject get_pair_element (JNIEnv *env, int arg, jobject pair)

  Returns one of the fields of the parma_polyhedra_library::Pair object `pair`.

- jobject build_java_constraint (JNIEnv *env, const Constraint &c)

  Builds a Java parma_polyhedra_library::Constraint from C++ Constraint `c`.

- jobject build_java_congruence (JNIEnv *env, const Congruence &cg)

  Builds a Java parma_polyhedra_library::Congruence from C++ Congruence `cg`.

- jobject build_java_generator (JNIEnv *env, const Generator &g)

  Builds a Java parma_polyhedra_library::Generator from C++ Generator `g`.

- jobject build_java_grid_generator (JNIEnv *env, const Grid_Generator &g)

  Builds a Java parma_polyhedra_library::Grid_Generator from C++ Grid_Generator `g`.

- jobject build_java_constraint_system (JNIEnv *env, const Constraint_System &cs)

  Builds a Java parma_polyhedra_library::Constraint_System from C++ Constraint_System `cs`.

- jobject build_java_generator_system (JNIEnv *env, const Generator_System &gs)

  Builds a Java parma_polyhedra_library::Generator_System from C++ Generator_System `gs`.

- jobject build_java_grid_generator_system (JNIEnv *env, const Grid_Generator_System &gs)

  Builds a Java parma_polyhedra_library::Grid_Generator_System from C++ Grid_Generator_System `gs`.

- jobject build_java_congruence_system (JNIEnv *env, const Congruence_System &cgs)

  Builds a Java parma_polyhedra_library::Congruence_System from C++ Congruence_System `cgs`.

- jobject build_java_artificial_parameter (JNIEnv *env, const PIP_Tree_Node::Artificial_Parameter &ap)

  Builds a Java parma_polyhedra_library::Artificial_Parameter from C++ Artificial_Parameter `ap`.

- template<typename U , typename V >
  U jtype_to_unsigned (const V &value)

  Builds an unsigned C++ number from the Java native number `value`.

- bool is_java_marked (JNIEnv *env, jobject ppl_object)

  Returns `true` *if and only if the Java object* `ppl_object` *refers to a C++ object.*

- jobject build_java_pip_problem_control_parameter_name (JNIEnv *env, const PIP_Problem::Control_Parameter_Name &cp_name)

  Builds a Java parma_polyhedra_library::PIP_Problem_Control_Parameter_Name from C++ PIP_Problem::Control_Parameter_Name `cp_name`.

- Variable build_cxx_variable (JNIEnv *env, jobject j_var)

  Builds a C++ Variable from Java parma_polyhedra_library::Variable `j_var`.

- jobject build_java_variable (JNIEnv *env, const Variable &var)

  Builds a Java parma_polyhedra_library::Variable from C++ Variable `var`.

- Coefficient build_cxx_coeff (JNIEnv *env, jobject j_coeff)

  Builds a C++ Coefficient from Java parma_polyhedra_library::Coefficient `j_coeff`.

- jobject build_java_coeff (JNIEnv *env, const Coefficient &ppl_coeff)

  Builds a Java parma_polyhedra_library::Coefficient from C++ Coefficient `ppl_coeff`.

- Grid_Generator_System build_cxx_grid_generator_system (JNIEnv *env, jobject j_gs)

  Builds a C++ Grid_Generator_System from Java parma_polyhedra_library::Grid_Generator_System `j_gs`.

- Constraint_System build_cxx_constraint_system (JNIEnv *env, jobject j_cs)

  Builds a C++ Constraint_System from Java parma_polyhedra_library::Constraint_System `j_cs`.

- PIP_Tree_Node::Artificial_Parameter_Sequence build_cxx_artificial_parameter_sequence (JNIEnv *env, jobject j_aps)

  Builds a C++ Artificial_Parameter_Sequence from Java parma_polyhedra_library::Artificial_Parameter_Sequence `j_aps`.

- Generator_System build_cxx_generator_system (JNIEnv *env, jobject j_gs)

  Builds a C++ Generator_System from Java parma_polyhedra_library::Generator_System `j_gs`.

- Congruence_System build_cxx_congruence_system (JNIEnv *env, jobject j_cgs)

  Builds a C++ Congruence_System from Java parma_polyhedra_library::Congruence_System `j_cgs`.

- jobject build_java_artificial_parameter_sequence (JNIEnv *env, const PIP_Tree_Node::Artificial_Parameter_Sequence &aps)

  Builds a Java parma_polyhedra_library::Artificial_Parameter_Sequence from C++ Artificial_Parameter_Sequence `aps`.

- void set_coefficient (JNIEnv *env, jobject dst, jobject src)

  Sets Java Coefficient `dst` *to have the same value as* `src`.

- void set_by_reference (JNIEnv *env, jobject by_ref_dst, jobject src)

  Modifies parma_polyhedra_library::By_Reference object `by_ref_dst` *so that it references object* `src`.

- jobject get_by_reference (JNIEnv *env, jobject by_reference)

  Returns the object referenced by parma_polyhedra_library::By_Reference object `by_reference`.

- void * get_ptr (JNIEnv *env, jobject ppl_object)

  Returns a pointer to the C++ object wrapped by `ppl_object`.

- template<typename T >
  void set_ptr (JNIEnv *env, jobject ppl_object, const T *address, bool to_be_marked=false)

  Sets the pointer of the underlying C++ object in the Java object.

- template<typename R >
  jobject build_linear_expression (JNIEnv *env, const R &r)

  Builds a Java parma_polyhedra_library::Linear_Expression from the C++ constraint/congruence `r`.

- template<typename System , typename Elem_Builder >
  System build_cxx_system (JNIEnv *env, jobject j_iterable, Elem_Builder build_cxx_elem)

Variables

- Java_Class_Cache cached_classes

  The cached class references.

- Java_FMID_Cache cached_FMIDs

  The field and method ID cache.

10.4.1 Function Documentation

10.4.1.1 jobject Parma_Polyhedra_Library::Interfaces::Java::bool_to_j_boolean_class (JNIEnv * *env*, const bool *value*)

Builds a Java Boolean from C++ bool `value`.

10.4.1.2 PIP_Tree_Node::Artificial_Parameter Parma_Polyhedra_Library::Interfaces::Java::build_cxx_artificial_parameter (JNIEnv * *env*, jobject *j_artificial_parameter*)

Builds a C++ Artificial_Parameter from Java parma_polyhedra_library::Artificial_Parameter `j_artificial_parameter`.

Builds a C++ Artificial_Parameter from Java parma_polyhedra_library::Artificial_Parameter `j_art_param`.

Referenced by Java_parma_1polyhedra_1library_Artificial_1Parameter_ascii_1dump(), and Java_parma_1polyhedra_1library_Artificial_1Parameter_toString().

10.4.1.3 PIP_Tree_Node::Artificial_Parameter_Sequence Parma_Polyhedra_Library::Interfaces::Java::build_cxx_artificial_parameter_sequence (JNIEnv * *env*, jobject *j_aps*)

Builds a C++ Artificial_Parameter_Sequence from Java parma_polyhedra_library::Artificial_Parameter_Sequence `j_aps`.

10.4.1.4 Bounded_Integer_Type_Overflow Parma_Polyhedra_Library::Interfaces::Java::build_cxx_bounded_overflow (JNIEnv * *env*, jobject *j_bounded_overflow*)

Builds a C++ Bounded_Integer_Type_Overflow from Java parma_polyhedra_library::Bounded_Integer_Type_Overflow `j_bounded_overflow`.

10.4.1.5 Bounded_Integer_Type_Representation Parma_Polyhedra_Library::Interfaces::Java::build_cxx_bounded_rep (JNIEnv * *env*, jobject *j_bounded_rep*)

Builds a C++ Bounded_Integer_Type_Representation from Java parma_polyhedra_library::Bounded_Integer_Type_Representation `j_bounded_rep`.

10.4.1.6 Bounded_Integer_Type_Width Parma_Polyhedra_Library::Interfaces::Java::build_cxx_bounded_width (JNIEnv * *env*, jobject *j_bounded_width*)

Builds a C++ Bounded_Integer_Type_Width from Java parma_polyhedra_library::Bounded_Integer_Type_Width `j_bounded_width`.

10.4.1.7 Coefficient Parma_Polyhedra_Library::Interfaces::Java::build_cxx_coeff (JNIEnv * *env*, jobject *j_coeff*) [inline]

Builds a C++ Coefficient from Java parma_polyhedra_library::Coefficient `j_coeff`.

Definition at line 163 of file ppl_java_common.inlines.hh.

References cached_FMIDs, CHECK_EXCEPTION_THROW, CHECK_RESULT_THROW, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Coefficient_toString_ID.

10.4.1.8 Congruence Parma_Polyhedra_Library::Interfaces::Java::build_cxx_congruence (JNIEnv * *env*, jobject *j_congruence*)

Builds a C++ Congruence from Java parma_polyhedra_library::Congruence `j_cg`.

Referenced by build_cxx_congruence_system(), Java_parma_1polyhedra_1library_Congruence_ascii_1dump(), and Java_parma_1polyhedra_1library_Congruence_toString().

10.4.1.9 Congruence_System Parma_Polyhedra_Library::Interfaces::Java::build_cxx_congruence_system (JNIEnv * *env*, jobject *j_cgs*) [inline]

Builds a C++ Congruence_System from Java parma_polyhedra_library::Congruence_System `j_cgs`.

Definition at line 216 of file ppl_java_common.inlines.hh.

References build_cxx_congruence().

Referenced by Java_parma_1polyhedra_1library_Congruence_1System_ascii_1dump(), and Java_parma_1polyhedra_1library_Congruence_1System_toString().

10.4.1.10 Constraint Parma_Polyhedra_Library::Interfaces::Java::build_cxx_constraint (JNIEnv * *env*, jobject *j_constraint*)

Builds a C++ Constraint from Java parma_polyhedra_library::Constraint `j_constraint`.

Referenced by build_cxx_constraint_system(), Java_parma_1polyhedra_1library_Constraint_ascii_1dump(), Java_parma_1polyhedra_1library_Constraint_toString(), Java_parma_1polyhedra_1library_MIP_1Problem_add_1constraint(), and Java_parma_1polyhedra_1library_PIP_1Problem_add_1constraint().

10.4.1.11 Constraint_System Parma_Polyhedra_Library::Interfaces::Java::build_cxx_constraint_system (JNIEnv * *env*, jobject *j_cs*) `[inline]`

Builds a C++ Constraint_System from Java parma_polyhedra_library::Constraint_System `j_cs`.

Definition at line 222 of file ppl_java_common.inlines.hh.

References build_cxx_constraint().

Referenced by Java_parma_1polyhedra_1library_Constraint_1System_ascii_1dump(), Java_parma_1polyhedra_1library_Constraint_1System_toString(), Java_parma_1polyhedra_1library_MIP_1Problem_add_1constraints(), Java_parma_1polyhedra_1library_MIP_1Problem_build_1cpp_1object__JLparma_1polyhedra_1library_Constraint_1System_2Lparma_1polyhedra_1library_Linear_1Expression_2Lparma_1polyhedra_1library_Optimization_1Mode_2(), Java_parma_1polyhedra_1library_PIP_1Problem_add_1constraints(), and Java_parma_1polyhedra_1library_PIP_1Problem_build_1cpp_1object__JLparma_1polyhedra_1library_Constraint_1System_2Lparma_1polyhedra_1library_Variables_1Set_2().

10.4.1.12 MIP_Problem::Control_Parameter_Name Parma_Polyhedra_Library::Interfaces::Java::build_cxx_control_parameter_name (JNIEnv * *env*, jobject *j_cp_name*)

Builds a C++ MIP_Problem::Control_Parameter_Name from Java parma_polyhedra_library::Control_Parameter_Name `j_cp_name`.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_get_1control_1parameter().

10.4.1.13 MIP_Problem::Control_Parameter_Value Parma_Polyhedra_Library::Interfaces::Java::build_cxx_control_parameter_value (JNIEnv * *env*, jobject *j_cp_value*)

Builds a C++ MIP_Problem::Control_Parameter_Value from Java parma_polyhedra_library::Control_Parameter_Value `j_cp_value`.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_set_1control_1parameter().

10.4.1.14 Generator Parma_Polyhedra_Library::Interfaces::Java::build_cxx_generator (JNIEnv * *env*, jobject *j_generator*)

Builds a C++ Generator from Java parma_polyhedra_library::Generator `j_g`.

Referenced by build_cxx_generator_system(), Java_parma_1polyhedra_1library_Generator_ascii_1dump(), Java_parma_1polyhedra_1library_Generator_toString(), and Java_parma_1polyhedra_1library_MIP_1Problem_evaluate_1objective_1function().

10.4.1.15 Generator_System Parma_Polyhedra_Library::Interfaces::Java::build_cxx_generator_system (JNIEnv * *env*, jobject *j_gs*) `[inline]`

Builds a C++ Generator_System from Java parma_polyhedra_library::Generator_System `j_gs`.

Definition at line 228 of file ppl_java_common.inlines.hh.

References build_cxx_generator().

Referenced by Java_parma_1polyhedra_1library_Generator_1System_ascii_1dump(), and Java_parma_1polyhedra_1library_Generator_1System_toString().

10.4.1.16 Grid_Generator Parma_Polyhedra_Library::Interfaces::Java::build_cxx_grid_generator (JNIEnv * *env*, jobject *j_grid_generator*)

Builds a C++ Grid_Generator from Java parma_polyhedra_library::Grid_Generator `j_g`.

Referenced by build_cxx_grid_generator_system(), Java_parma_1polyhedra_1library_Grid_1Generator_ascii_1dump(), and Java_parma_1polyhedra_1library_Grid_1Generator_toString().

10.4.1.17 Grid_Generator_System Parma_Polyhedra_Library::Interfaces::Java::build_cxx_grid_generator_system (JNIEnv * *env*, jobject *j_gs*) `[inline]`

Builds a C++ Grid_Generator_System from Java parma_polyhedra_library::Grid_Generator_System `j_gs`.

Definition at line 234 of file ppl_java_common.inlines.hh.

References build_cxx_grid_generator().

Referenced by Java_parma_1polyhedra_1library_Grid_1Generator_1System_ascii_1dump(), and Java_parma_1polyhedra_1library_Grid_1Generator_1System_toString().

10.4.1.18 Linear_Expression Parma_Polyhedra_Library::Interfaces::Java::build_cxx_linear_expression (JNIEnv * *env*, jobject *j_le*)

Builds a C++ Linear_Expression from Java parma_polyhedra_library::Linear_Expression `j_le`.

Referenced by Java_parma_1polyhedra_1library_Linear_1Expression_all_1homogeneous_1terms_1are_1zero(), Java_parma_1polyhedra_1library_Linear_1Expression_ascii_1dump(), Java_parma_1polyhedra_1library_Linear_1Expression_is_1zero(), Java_parma_1polyhedra_1library_Linear_1Expression_toString(), Java_parma_1polyhedra_1library_MIP_1Problem_build_1cpp_1object__JLparma_1polyhedra_1library_Constraint_1System_2Lparma_1polyhedra_1library_Linear_1Expression_2Lparma_1polyhedra_1library_Optimization_1Mode_2(), and Java_parma_1polyhedra_1library_MIP_1Problem_set_1objective_1function().

10.4.1.19 Optimization_Mode Parma_Polyhedra_Library::Interfaces::Java::build_cxx_optimization_mode (JNIEnv * *env*, jobject *j_opt_mode*)

Builds a C++ Optimization_Mode from Java parma_polyhedra_library::Optimization_Mode `j_opt_mode`.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_build_1cpp_1object__JLparma_1polyhedra_1library_Constraint_1System_2Lparma_1polyhedra_1library_Linear_1Expression_2Lparma_1polyhedra_1library_Optimization_1Mode_2(), and Java_parma_1polyhedra_1library_MIP_1Problem_set_1optimization_1mode().

10.4.1.20 PIP_Problem::Control_Parameter_Name Parma_Polyhedra_Library::Interfaces::Java::build_cxx_pip_problem_control_parameter_name (JNIEnv * *env*, jobject *j_cp_name*)

Builds a C++ PIP_Problem::Control_Parameter_Name from Java parma_polyhedra_library::PIP_Problem_Control_Parameter_Name `j_cp_name`.

Referenced by Java_parma_1polyhedra_1library_PIP_1Problem_get_1pip_1problem_1control_1parameter().

10.4.1.21 PIP_Problem::Control_Parameter_Value Parma_Polyhedra_Library::Interfaces::Java::build_cxx_pip_problem_control_parameter_value (JNIEnv * *env*, jobject *j_cp_value*)

Builds a C++ PIP_Problem::Control_Parameter_Value from Java parma_polyhedra_library::PIP_Problem_Control_Parameter_Value `j_cp_value`.

Referenced by Java_parma_1polyhedra_1library_PIP_1Problem_set_1pip_1problem_1control_1parameter().

10.4.1.22 Relation_Symbol Parma_Polyhedra_Library::Interfaces::Java::build_cxx_relsym (JNIEnv * *env*, jobject *j_relsym*)

Builds a C++ Relation_Symbol from Java parma_polyhedra_library::Relation_Symbol `j_relsym`.

10.4.1.23 template<typename System , typename Elem_Builder > System Parma_Polyhedra_Library::Interfaces::Java::build_cxx_system (JNIEnv * *env*, jobject *j_iterable*, Elem_Builder *build_cxx_elem*) [inline]

Definition at line 192 of file ppl_java_common.inlines.hh.

References cached_FMIDs, CHECK_EXCEPTION_ASSERT, CHECK_EXCEPTION_THROW, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::System_Iterator_has_next_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::System_iterator_ID, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::System_Iterator_next_ID.

10.4.1.24 Variable Parma_Polyhedra_Library::Interfaces::Java::build_cxx_variable (JNIEnv * *env*, jobject *j_var*) [inline]

Builds a C++ Variable from Java parma_polyhedra_library::Variable `j_var`.

Definition at line 149 of file ppl_java_common.inlines.hh.

References cached_FMIDs, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Variable_varid_ID.

Referenced by Java_parma_1polyhedra_1library_PIP_1Solution_1Node_parametric_1values().

10.4.1.25 Variables_Set Parma_Polyhedra_Library::Interfaces::Java::build_cxx_variables_set (JNIEnv * *env*, jobject *j_v_set*)

Builds a C++ Variables_Set from Java parma_polyhedra_library::Variables_Set `v_set`.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_add_1to_1integer_1space_1dimensions(), Java_parma_1polyhedra_1library_PIP_1Problem_add_1to_1parameter_1space_1dimensions(), and Java_parma_1polyhedra_1library_PIP_1Problem_build_1cpp_1object__JLparma_1polyhedra_1library_Constraint_1System_2Lparma_1polyhedra_1library_Variables_1Set_2().

10.4.1.26 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_artificial_parameter (JNIEnv * *env*, const PIP_Tree_Node::Artificial_Parameter & *art*)

Builds a Java parma_polyhedra_library::Artificial_Parameter from C++ Artificial_Parameter `ap`.

Referenced by Java_parma_1polyhedra_1library_PIP_1Tree_1Node_artificials().

10.4.1.27 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_artificial_parameter_sequence (JNIEnv * *env*, const PIP_Tree_Node::Artificial_Parameter_Sequence & *aps*)

Builds a Java parma_polyhedra_library::Artificial_Parameter_Sequence from C++ Artificial_Parameter_Sequence `aps`.

10.4.1.28 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_coeff (JNIEnv * *env*, const Coefficient & *ppl_coeff*) [inline]

Builds a Java parma_polyhedra_library::Coefficient from C++ Coefficient `ppl_coeff`.

Definition at line 177 of file ppl_java_common.inlines.hh.

References cached_classes, cached_FMIDs, CHECK_RESULT_THROW, Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Coefficient, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Coefficient_init_from_String_ID.

Referenced by build_linear_expression(), Java_parma_1polyhedra_1library_MIP_1Problem_evaluate_1objective_1function(), Java_parma_1polyhedra_1library_MIP_1Problem_objective_1function(), and Java_parma_1polyhedra_1library_MIP_1Problem_optimal_1value().

10.4.1.29 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_congruence (JNIEnv * *env*, const Congruence & *cg*)

Builds a Java parma_polyhedra_library::Congruence from C++ Congruence `cg`.

10.4.1.30 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_congruence_system (JNIEnv * *env*, const Congruence_System & *cgs*)

Builds a Java parma_polyhedra_library::Congruence_System from C++ Congruence_System `cgs`.

10.4.1.31 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_constraint (JNIEnv * *env*, const Constraint & *c*)

Builds a Java parma_polyhedra_library::Constraint from C++ Constraint `c`.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_constraints(), Java_parma_1polyhedra_1library_PIP_1Problem_constraint_1at_1index(), and Java_parma_1polyhedra_1library_PIP_1Problem_constraints().

10.4.1.32 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_constraint_system (JNIEnv * *env*, const Constraint_System & *cs*)

Builds a Java parma_polyhedra_library::Constraint_System from C++ Constraint_System `cs`.

Referenced by Java_parma_1polyhedra_1library_PIP_1Tree_1Node_constraints().

10.4.1.33 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_control_parameter_name (JNIEnv * *env*, const MIP_Problem::Control_Parameter_Name & *cp_name*)

Builds a Java parma_polyhedra_library::Control_Parameter_Name from C++ MIP_Problem::Control_Parameter_Name `cp_name`.

10.4.1.34 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_control_parameter_value (JNIEnv * *env*, const MIP_Problem::Control_Parameter_Value & *cp_value*)

Builds a Java parma_polyhedra_library::Control_Parameter_Value from C++ MIP_Problem::Control_Parameter_Value `cp_value`.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_get_1control_1parameter().

10.4.1.35 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_generator (JNIEnv * *env*, const Generator & *g*)

Builds a Java parma_polyhedra_library::Generator from C++ Generator `g`.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_feasible_1point(), and Java_parma_1polyhedra_1library_MIP_1Problem_optimizing_1point().

10.4.1.36 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_generator_system (JNIEnv * *env*, const Generator_System & *gs*)

Builds a Java parma_polyhedra_library::Generator_System from C++ Generator_System `gs`.

10.4.1.37 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_grid_generator (JNIEnv * *env*, const Grid_Generator & *g*)

Builds a Java parma_polyhedra_library::Grid_Generator from C++ Grid_Generator `g`.

10.4.1.38 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_grid_generator_system (JNIEnv * *env*, const Grid_Generator_System & *gs*)

Builds a Java parma_polyhedra_library::Grid_Generator_System from C++ Grid_Generator_System `gs`.

10.4.1.39 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_linear_expression_coefficient (JNIEnv * *env*, const Coefficient & *c*)

Builds a Java parma_polyhedra_library::Linear_Expression_Coefficient from C++ Coefficient `coeff`.

10.4.1.40 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_mip_status (JNIEnv * *env*, const MIP_Problem_Status & *mip_status*)

Builds a Java parma_polyhedra_library::MIP_Problem_Status from C++ MIP_Problem_Status `mip_status`.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_solve().

10.4.1.41 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_optimization_mode (JNIEnv * *env*, const Optimization_Mode & *opt_mode*)

Builds a Java parma_polyhedra_library::Optimization_Mode from C++ Optimization_Mode `opt_mode`.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_optimization_1mode().

10.4.1.42 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_pip_problem_control_parameter_name (JNIEnv * *env*, const PIP_Problem::Control_Parameter_Name & *cp_name*)

Builds a Java parma_polyhedra_library::PIP_Problem_Control_Parameter_Name from C++ PIP_Problem::Control_Parameter_Name `cp_name`.

10.4.1.43 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_pip_problem_control_parameter_value (JNIEnv * *env*, const PIP_Problem::Control_Parameter_Value & *cp_value*)

Builds a Java parma_polyhedra_library::Control_Parameter_Value from C++ PIP_Problem::Control_Parameter_Value `cp_value`.

Referenced by Java_parma_1polyhedra_1library_PIP_1Problem_get_1pip_1problem_1control_1parameter().

10.4.1.44 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_pip_status (JNIEnv * *env*, const PIP_Problem_Status & *pip_status*)

Builds a Java parma_polyhedra_library::PIP_Problem_Status from C++ PIP_Problem_Status `pip_status`.

Referenced by Java_parma_1polyhedra_1library_PIP_1Problem_solve().

10.4.1.45 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_poly_con_relation (JNIEnv * *env*, Poly_Con_Relation & *r*)

Builds a Java parma_polyhedra_library::Poly_Con_Relation from C++ Poly_Con_Relation `r`.

10.4.1.46 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_poly_gen_relation (JNIEnv * *env*, Poly_Gen_Relation & *r*)

Builds a Java parma_polyhedra_library::Poly_Gen_Relation from C++ Poly_Gen_Relation `r`.

10.4.1.47 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_variable (JNIEnv * *env*, const Variable & *var*) [inline]

Builds a Java parma_polyhedra_library::Variable from C++ Variable `var`.

Definition at line 154 of file ppl_java_common.inlines.hh.

References cached_classes, cached_FMIDs, CHECK_RESULT_THROW, Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Variable, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Variable_init_ID.

Referenced by build_linear_expression().

10.4.1.48 jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_variables_set (JNIEnv * *env*, const Variables_Set & *v_set*)

Builds a Java parma_polyhedra_library::Variables_Set from C++ Variables_Set `v_set`.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_integer_1space_1dimensions(), and Java_parma_1polyhedra_1library_PIP_1Problem_parameter_1space_1dimensions().

10.4.1.49 template<typename R > jobject Parma_Polyhedra_Library::Interfaces::Java::build_linear_expression (JNIEnv * *env*, const R & *r*) [inline]

Builds a Java parma_polyhedra_library::Linear_Expression from the C++ constraint/congruence `r`.

Definition at line 98 of file ppl_java_common.inlines.hh.

References build_java_coeff(), build_java_variable(), cached_classes, cached_FMIDs, CHECK_EXCEPTION_THROW, CHECK_RESULT_THROW, Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Linear_Expression_Coefficient, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_Coefficient_init_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_sum_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Linear_Expression_Times, and Parma_-

Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_Times_init_from_coeff_-var_ID.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_objective_1function(), and Java_-parma_1polyhedra_1library_PIP_1Solution_1Node_parametric_1values().

10.4.1.50 jobject Parma_Polyhedra_Library::Interfaces::Java::build_pip_-problem_java_control_parameter_name (JNIEnv * *env*, const PIP_Problem::Control_Parameter_Name & *cp_name*)

Definition at line 743 of file ppl_java_common.cc.

10.4.1.51 jobject Parma_Polyhedra_Library::Interfaces::Java::get_by_reference (JNIEnv * *env*, jobject *by_reference*) [inline]

Returns the object referenced by parma_polyhedra_library::By_Reference object `by_reference`.

Definition at line 92 of file ppl_java_common.inlines.hh.

References Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::By_Reference_obj_ID, and cached_FMIDs.

10.4.1.52 jobject Parma_Polyhedra_Library::Interfaces::Java::get_pair_element (JNIEnv * *env*, int *arg*, jobject *pair*)

Returns one of the fields of the parma_polyhedra_library::Pair object `pair`.

If `arg` is 0, the first element of `pair` is returned; if `arg` is 1, the second element of `pair` is returned.

Exceptions

std::runtime_error Thrown if `arg` is neither 0 nor 1.

10.4.1.53 void * Parma_Polyhedra_Library::Interfaces::Java::get_ptr (JNIEnv * *env*, jobject *ppl_object*) [inline]

Returns a pointer to the C++ object wrapped by `ppl_object`.

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

References cached_FMIDs, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PPL_-Object_ptr_ID.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_add_1constraint(), Java_parma_-1polyhedra_1library_MIP_1Problem_add_1constraints(), Java_parma_1polyhedra_1library_MIP_-1Problem_add_1space_1dimensions_1and_1embed(), Java_parma_1polyhedra_1library_MIP_-1Problem_add_1to_1integer_1space_1dimensions(), Java_parma_1polyhedra_1library_MIP_1Problem_-ascii_1dump(), Java_parma_1polyhedra_1library_MIP_1Problem_build_1cpp_1object__Lparma_-1polyhedra_1library_MIP_1Problem_2(), Java_parma_1polyhedra_1library_MIP_1Problem_clear(),

Java_parma_1polyhedra_1library_MIP_1Problem_constraints(), Java_parma_1polyhedra_1library_-MIP_1Problem_evaluate_1objective_1function(), Java_parma_1polyhedra_1library_MIP_1Problem_-feasible_1point(), Java_parma_1polyhedra_1library_MIP_1Problem_finalize(), Java_parma_-1polyhedra_1library_MIP_1Problem_free(), Java_parma_1polyhedra_1library_MIP_1Problem_-get_1control_1parameter(), Java_parma_1polyhedra_1library_MIP_1Problem_integer_1space_-1dimensions(), Java_parma_1polyhedra_1library_MIP_1Problem_is_1satisfiable(), Java_parma_-1polyhedra_1library_MIP_1Problem_max_1space_1dimension(), Java_parma_1polyhedra_1library_-MIP_1Problem_objective_1function(), Java_parma_1polyhedra_1library_MIP_1Problem_OK(), Java_parma_1polyhedra_1library_MIP_1Problem_optimal_1value(), Java_parma_1polyhedra_-1library_MIP_1Problem_optimization_1mode(), Java_parma_1polyhedra_1library_MIP_1Problem_-optimizing_1point(), Java_parma_1polyhedra_1library_MIP_1Problem_set_1control_1parameter(), Java_parma_1polyhedra_1library_MIP_1Problem_set_1objective_1function(), Java_parma_1polyhedra_-1library_MIP_1Problem_set_1optimization_1mode(), Java_parma_1polyhedra_1library_MIP_-1Problem_solve(), Java_parma_1polyhedra_1library_MIP_1Problem_space_1dimension(), Java_-parma_1polyhedra_1library_MIP_1Problem_toString(), Java_parma_1polyhedra_1library_MIP_-1Problem_total_1memory_1in_1bytes(), Java_parma_1polyhedra_1library_Partial_1Function_finalize(), Java_parma_1polyhedra_1library_Partial_1Function_free(), Java_parma_1polyhedra_1library_Partial_-1Function_has_1empty_1codomain(), Java_parma_1polyhedra_1library_Partial_1Function_insert(), Java_parma_1polyhedra_1library_Partial_1Function_maps(), Java_parma_1polyhedra_1library_Partial_-1Function_max_1in_1codomain(), Java_parma_1polyhedra_1library_PIP_1_problem_finalize(), Java_-parma_1polyhedra_1library_PIP_1Decision_1Node_child_1node(), Java_parma_1polyhedra_1library_-PIP_1Problem_add_1constraint(), Java_parma_1polyhedra_1library_PIP_1Problem_add_1constraints(), Java_parma_1polyhedra_1library_PIP_1Problem_add_1space_1dimensions_1and_1embed(), Java_-parma_1polyhedra_1library_PIP_1Problem_add_1to_1parameter_1space_1dimensions(), Java_parma_-1polyhedra_1library_PIP_1Problem_ascii_1dump(), Java_parma_1polyhedra_1library_PIP_1Problem_-build_1cpp_1object__Lparma_1polyhedra_1library_PIP_1Problem_2(), Java_parma_1polyhedra_-1library_PIP_1Problem_constraint_1at_1index(), Java_parma_1polyhedra_1library_PIP_1Problem_-constraints(), Java_parma_1polyhedra_1library_PIP_1Problem_external_1memory_1in_1bytes(), Java_-parma_1polyhedra_1library_PIP_1Problem_free(), Java_parma_1polyhedra_1library_PIP_1Problem_-get_1big_1parameter_1dimension(), Java_parma_1polyhedra_1library_PIP_1Problem_get_1pip_-1problem_1control_1parameter(), Java_parma_1polyhedra_1library_PIP_1Problem_is_1satisfiable(), Java_parma_1polyhedra_1library_PIP_1Problem_max_1space_1dimension(), Java_parma_1polyhedra_-1library_PIP_1Problem_number_1of_1constraints(), Java_parma_1polyhedra_1library_PIP_1Problem_-number_1of_1parameter_1space_1dimensions(), Java_parma_1polyhedra_1library_PIP_1Problem_OK(), Java_parma_1polyhedra_1library_PIP_1Problem_optimizing_1solution(), Java_parma_1polyhedra_-1library_PIP_1Problem_parameter_1space_1dimensions(), Java_parma_1polyhedra_1library_PIP_-1Problem_set_1big_1parameter_1dimension(), Java_parma_1polyhedra_1library_PIP_1Problem_set_-1pip_1problem_1control_1parameter(), Java_parma_1polyhedra_1library_PIP_1Problem_solution(), Java_parma_1polyhedra_1library_PIP_1Problem_solve(), Java_parma_1polyhedra_1library_PIP_-1Problem_space_1dimension(), Java_parma_1polyhedra_1library_PIP_1Problem_toString(), Java_-parma_1polyhedra_1library_PIP_1Problem_total_1memory_1in_1bytes(), Java_parma_1polyhedra_-1library_PIP_1Solution_1Node_parametric_1values(), Java_parma_1polyhedra_1library_PIP_1Tree_-1Node_artificials(), Java_parma_1polyhedra_1library_PIP_1Tree_1Node_as_1decision(), Java_parma_-1polyhedra_1library_PIP_1Tree_1Node_as_1solution(), Java_parma_1polyhedra_1library_PIP_1Tree_-1Node_constraints(), Java_parma_1polyhedra_1library_PIP_1Tree_1Node_finalize(), Java_parma_-1polyhedra_1library_PIP_1Tree_1Node_free(), Java_parma_1polyhedra_1library_PIP_1Tree_1Node_-number_1of_1artificials(), Java_parma_1polyhedra_1library_PIP_1Tree_1Node_OK(), and Java_parma_-1polyhedra_1library_PIP_1Tree_1Node_toString().

10.4.1.54 void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv * *env*)

10.4.1.55 void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv * *env*, const deterministic_timeout_exception &)

10.4.1.56 void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv * *env*, const timeout_exception &)

10.4.1.57 void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv * *env*, const std::exception & *e*)

10.4.1.58 void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv * *env*, const std::bad_alloc &)

10.4.1.59 void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv * *env*, const std::domain_error & *e*)

10.4.1.60 void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv * *env*, const std::length_error & *e*)

10.4.1.61 void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv * *env*, const std::logic_error & *e*)

10.4.1.62 void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv * *env*, const std::invalid_argument & *e*)

10.4.1.63 void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv * *env*, const std::overflow_error & *e*)

10.4.1.64 bool Parma_Polyhedra_Library::Interfaces::Java::is_java_marked (JNIEnv * *env*, jobject *ppl_object*) [inline]

Returns `true` if and only if the Java object `ppl_object` refers to a C++ object.

Definition at line 69 of file ppl_java_common.inlines.hh.

References cached_FMIDs, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PPL_-Object_ptr_ID.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_finalize(), Java_parma_1polyhedra_-1library_MIP_1Problem_free(), Java_parma_1polyhedra_1library_Partial_1Function_finalize(), Java_parma_1polyhedra_1library_Partial_1Function_free(), Java_parma_1polyhedra_1library_PIP_-1_problem_finalize(), Java_parma_1polyhedra_1library_PIP_1Problem_free(), Java_parma_1polyhedra_-1library_PIP_1Tree_1Node_finalize(), and Java_parma_1polyhedra_1library_PIP_1Tree_1Node_free().

10.4.1.65 jobject Parma_Polyhedra_Library::Interfaces::Java::j_int_to_j_integer (JNIEnv * *env*, jint *jint_value*)

Builds a Java Integer from Java int `value`.

10.4.1.66 jint Parma_Polyhedra_Library::Interfaces::Java::j_integer_to_j_int (JNIEnv * *env*, jobject *j_integer*)

Returns the Java int stored in Java Integer `j_integer`.

10.4.1.67 jlong Parma_Polyhedra_Library::Interfaces::Java::j_long_class_to_j_long (JNIEnv * *env*, jobject *j_long*)

Returns the Java long stored in Java Long `j_long`.

10.4.1.68 jobject Parma_Polyhedra_Library::Interfaces::Java::j_long_to_j_long_class (JNIEnv * *env*, jlong *jlong_value*)

Builds a Java Long from Java long `value`.

10.4.1.69 template<typename U , typename V > U Parma_Polyhedra_-Library::Interfaces::Java::jtype_to_unsigned (const V & *value*) [inline]

Builds an unsigned C++ number from the Java native number `value`.

Parameters

value The Java native number of type V to be converted.

Exceptions

std::invalid_argument Thrown if `value` is negative.

Definition at line 37 of file ppl_java_common.inlines.hh.

10.4.1.70 void Parma_Polyhedra_Library::Interfaces::Java::reset_deterministic_timeout ()

Referenced by Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_reset_1deterministic_-1timeout(), and Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_set_1deterministic_-1timeout().

10.4.1.71 void Parma_Polyhedra_Library::Interfaces::Java::reset_timeout ()

Referenced by Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_reset_1timeout(), and Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_set_1timeout().

10.4.1.72 void Parma_Polyhedra_Library::Interfaces::Java::set_by_reference (JNIEnv * *env*, jobject *by_ref_dst*, jobject *src*) [inline]

Modifies parma_polyhedra_library::By_Reference object `by_ref_dst` so that it references object `src`.

Definition at line 85 of file ppl_java_common.inlines.hh.

References Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::By_Reference_obj_ID, and cached_FMIDs.

10.4.1.73 void Parma_Polyhedra_Library::Interfaces::Java::set_coefficient (JNIEnv * *env*, jobject *dst*, jobject *src*) [inline]

Sets Java Coefficient `dst` to have the same value as `src`.

Definition at line 78 of file ppl_java_common.inlines.hh.

References cached_FMIDs, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Coefficient_value_ID.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_evaluate_1objective_1function(), and Java_parma_1polyhedra_1library_MIP_1Problem_optimal_1value().

10.4.1.74 void Parma_Polyhedra_Library::Interfaces::Java::set_generator (JNIEnv * *env*, jobject *dst*, jobject *src*)

Sets Java parma_polyhedra_library::Generator `dst` to have the same value as `src`.

10.4.1.75 void Parma_Polyhedra_Library::Interfaces::Java::set_pair_element (JNIEnv * *env*, jobject *dst_pair*, int *arg*, jobject *src*)

Assigns `src` to one of the fields of parma_polyhedra_library::Pair object `dst_pair`.

If `arg` is 0, the first element of `dst_pair` is overwritten; if `arg` is 1, the second element of `dst_pair` is overwritten.

Exceptions

std::runtime_error Thrown if `arg` is neither 0 nor 1.

10.4.1.76 template<typename T > void Parma_Polyhedra_Library::Interfaces::Java::set_ptr (JNIEnv * *env*, jobject *ppl_object*, const T * *address*, bool *to_be_marked* = `false`) `[inline]`

Sets the pointer of the underlying C++ object in the Java object.

Definition at line 51 of file ppl_java_common.inlines.hh.

References cached_FMIDs, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PPL_-Object_ptr_ID.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_build_1cpp_1object__J(), Java_-parma_1polyhedra_1library_MIP_1Problem_build_1cpp_1object__JLparma_1polyhedra_1library_-Constraint_1System_2Lparma_1polyhedra_1library_Linear_1Expression_2Lparma_1polyhedra_-1library_Optimization_1Mode_2(), Java_parma_1polyhedra_1library_MIP_1Problem_build_1cpp_-1object__Lparma_1polyhedra_1library_MIP_1Problem_2(), Java_parma_1polyhedra_1library_-MIP_1Problem_free(), Java_parma_1polyhedra_1library_Partial_1Function_build_1cpp_1object(), Java_parma_1polyhedra_1library_Partial_1Function_free(), Java_parma_1polyhedra_1library_PIP_-1Decision_1Node_child_1node(), Java_parma_1polyhedra_1library_PIP_1Problem_build_1cpp_-1object__J(), Java_parma_1polyhedra_1library_PIP_1Problem_build_1cpp_1object__JLparma_-1polyhedra_1library_Constraint_1System_2Lparma_1polyhedra_1library_Variables_1Set_2(), Java_-parma_1polyhedra_1library_PIP_1Problem_build_1cpp_1object__Lparma_1polyhedra_1library_PIP_-1Problem_2(), Java_parma_1polyhedra_1library_PIP_1Problem_free(), Java_parma_1polyhedra_-1library_PIP_1Problem_optimizing_1solution(), Java_parma_1polyhedra_1library_PIP_1Problem_-solution(), Java_parma_1polyhedra_1library_PIP_1Tree_1Node_as_1decision(), Java_parma_-1polyhedra_1library_PIP_1Tree_1Node_as_1solution(), and Java_parma_1polyhedra_1library_PIP_-1Tree_1Node_free().

10.4.2 Variable Documentation

10.4.2.1 Java_Class_Cache Parma_Polyhedra_Library::Interfaces::Java::cached_classes

The cached class references.

Definition at line 28 of file ppl_java_common.cc.

Referenced by build_java_coeff(), build_java_variable(), build_linear_expression(), Java_parma_-1polyhedra_1library_Coefficient_initIDs(), Java_parma_1polyhedra_1library_Constraint_1System_-initIDs(), Java_parma_1polyhedra_1library_MIP_1Problem_constraints(), Java_parma_1polyhedra_-1library_MIP_1Problem_objective_1function(), Java_parma_1polyhedra_1library_Parma_1Polyhedra_-1Library_finalize_1library(), Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_initialize_-1library(), Java_parma_1polyhedra_1library_PIP_1Problem_constraints(), Java_parma_1polyhedra_-1library_PIP_1Tree_1Node_artificials(), and Java_parma_1polyhedra_1library_PIP_1Tree_1Node_-constraints().

10.4.2.2 Java_FMID_Cache Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs

The field and method ID cache.

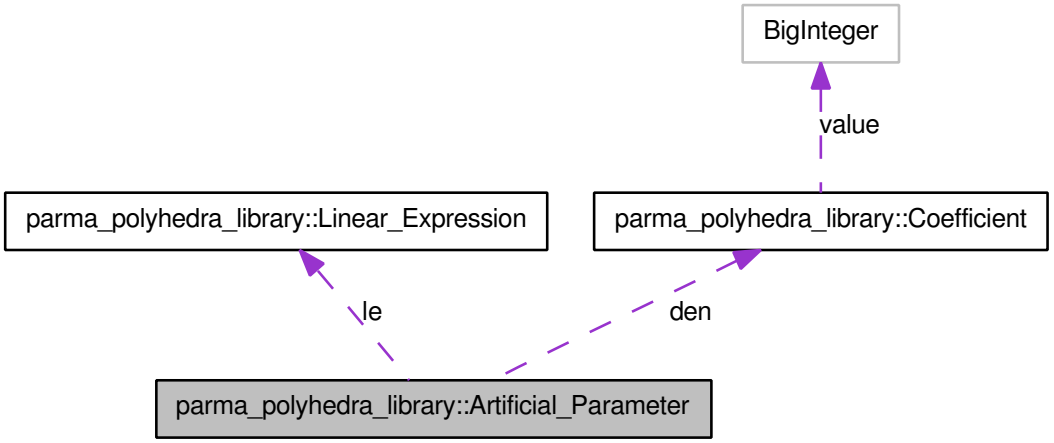
Definition at line 29 of file ppl_java_common.cc.

Referenced by build_cxx_coeff(), build_cxx_system(), build_cxx_variable(), build_java_coeff(), build_java_variable(), build_linear_expression(), get_by_reference(), get_ptr(), is_java_marked(), Java_parma_1polyhedra_1library_Artificial_1Parameter_1Sequence_initIDs(), Java_parma_1polyhedra_-1library_Artificial_1Parameter_initIDs(), Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_-1Overflow_initIDs(), Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_1Representation_-initIDs(), Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_1Width_initIDs(), Java_parma_-1polyhedra_1library_By_1Reference_initIDs(), Java_parma_1polyhedra_1library_Coefficient_initIDs(), Java_parma_1polyhedra_1library_Complexity_1Class_initIDs(), Java_parma_1polyhedra_1library_-Congruence_1System_initIDs(), Java_parma_1polyhedra_1library_Congruence_initIDs(), Java_parma_-1polyhedra_1library_Constraint_1System_initIDs(), Java_parma_1polyhedra_1library_Constraint_-initIDs(), Java_parma_1polyhedra_1library_Degenerate_1Element_initIDs(), Java_parma_1polyhedra_-1library_Generator_1System_initIDs(), Java_parma_1polyhedra_1library_Generator_1Type_initIDs(), Java_parma_1polyhedra_1library_Generator_initIDs(), Java_parma_1polyhedra_1library_Grid_-1Generator_1System_initIDs(), Java_parma_1polyhedra_1library_Grid_1Generator_1Type_initIDs(), Java_parma_1polyhedra_1library_Grid_1Generator_initIDs(), Java_parma_1polyhedra_1library_-Linear_1Expression_1Coefficient_initIDs(), Java_parma_1polyhedra_1library_Linear_1Expression_-1Difference_initIDs(), Java_parma_1polyhedra_1library_Linear_1Expression_1Sum_initIDs(), Java_-parma_1polyhedra_1library_Linear_1Expression_1Times_initIDs(), Java_parma_1polyhedra_1library_-Linear_1Expression_1Unary_1Minus_initIDs(), Java_parma_1polyhedra_1library_Linear_1Expression_-1Variable_initIDs(), Java_parma_1polyhedra_1library_Linear_1Expression_initIDs(), Java_parma_-1polyhedra_1library_MIP_1Problem_1Status_initIDs(), Java_parma_1polyhedra_1library_MIP_-1Problem_constraints(), Java_parma_1polyhedra_1library_MIP_1Problem_objective_1function(), Java_-parma_1polyhedra_1library_Optimization_1Mode_initIDs(), Java_parma_1polyhedra_1library_Pair_-initIDs(), Java_parma_1polyhedra_1library_PIP_1Problem_1Status_initIDs(), Java_parma_1polyhedra_-1library_PIP_1Problem_constraints(), Java_parma_1polyhedra_1library_PIP_1Tree_1Node_artificials(), Java_parma_1polyhedra_1library_PIP_1Tree_1Node_constraints(), Java_parma_1polyhedra_1library_-Poly_1Con_1Relation_initIDs(), Java_parma_1polyhedra_1library_Poly_1Gen_1Relation_initIDs(), Java_parma_1polyhedra_1library_PPL_1Object_initIDs(), Java_parma_1polyhedra_1library_Relation_-1Symbol_initIDs(), Java_parma_1polyhedra_1library_Variable_initIDs(), Java_parma_1polyhedra_-1library_Variables_1Set_initIDs(), set_by_reference(), set_coefficient(), and set_ptr().

11 Class Documentation

11.1 parma_polyhedra_library::Artificial_Parameter Class Reference

Collaboration diagram for parma_polyhedra_library::Artificial_Parameter:



Public Member Functions

- Artificial_Parameter (Linear_Expression e, Coefficient d)

  Builds an artificial parameter from a linear expression and a denominator.

- Linear_Expression linear_expression ()

  Returns the linear expression in artificial parameter `this`.

- Coefficient denominator ()

  Returns the denominator in artificial parameter `this`.

- native String ascii_dump ()

  Returns an ascii formatted internal representation of `this`.

- native String toString ()

  Returns a string representation of `this`.

Static Package Functions

- [static initializer]

Static Private Member Functions

- static native void initIDs ()

Private Attributes

- Linear_Expression le

  The value of the linear expression of `this`.

- Coefficient den

  The value of the denominatir of `this`.

11.1.1 Detailed Description

An Artificial_Parameter object represents the result of the integer division of a Linear_Expression (on the other parameters, including the previously-defined artificials) by an integer denominator (a Coefficient object). The dimensions of the artificial parameters (if any) in a tree node have consecutive indices starting from `dim+1`, where the value of `dim` is computed as follows:

- for the tree root node, `dim` is the space dimension of the PIP_Problem;
- for any other node of the tree, it is recusrively obtained by adding the value of `dim` computed for the parent node to the number of artificial parameters defined in the parent node.

  Since the numbering of dimensions for artificial parameters follows the rule above, the addition of new problem variables and/or new problem parameters to an already solved PIP_Problem object (as done when incrementally solving a problem) will result in the systematic renumbering of all the existing artificial parameters.

Definition at line 49 of file Artificial_Parameter.java.

11.1.2 Constructor & Destructor Documentation

11.1.2.1 parma_polyhedra_library::Artificial_Parameter::Artificial_Parameter (Linear_Expression *e*, Coefficient *d*) `[inline]`

Builds an artificial parameter from a linear expression and a denominator.

Definition at line 61 of file Artificial_Parameter.java.

References parma_polyhedra_library::Linear_Expression::clone(), den, and le.

11.1.3 Member Function Documentation

11.1.3.1 parma_polyhedra_library::Artificial_Parameter::[static initializer] () `[inline, static, package]`

11.1.3.2 native String parma_polyhedra_library::Artificial_Parameter::ascii_dump ()

Returns an ascii formatted internal representation of `this`.

11.1.3.3 Coefficient parma_polyhedra_library::Artificial_Parameter::denominator () [inline]

Returns the denominator in artificial parameter `this`.

Definition at line 76 of file Artificial_Parameter.java.

References den.

11.1.3.4 static native void parma_polyhedra_library::Artificial_Parameter::initIDs () [static, private]

11.1.3.5 Linear_Expression parma_polyhedra_library::Artificial_Parameter::linear_expression () [inline]

Returns the linear expression in artificial parameter `this`.

Definition at line 69 of file Artificial_Parameter.java.

References le.

11.1.3.6 native String parma_polyhedra_library::Artificial_Parameter::toString ()

Returns a string representation of `this`.

11.1.4 Member Data Documentation

11.1.4.1 Coefficient parma_polyhedra_library::Artificial_Parameter::den [private]

The value of the denominatir of `this`.

Definition at line 55 of file Artificial_Parameter.java.

Referenced by Artificial_Parameter(), and denominator().

11.1.4.2 Linear_Expression parma_polyhedra_library::Artificial_Parameter::le [private]

The value of the linear expression of `this`.

Definition at line 52 of file Artificial_Parameter.java.

Referenced by Artificial_Parameter(), and linear_expression().

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

- Artificial_Parameter.java

11.2 parma_polyhedra_library::Artificial_Parameter_Sequence Class Reference

A sequence of artificial parameters.

Public Member Functions

- Artificial_Parameter_Sequence ()
  Default constructor: builds an empty sequence of artificial parameters.

Static Package Functions

- [static initializer]

Static Private Member Functions

- static native void initIDs ()

11.2.1 Detailed Description

A sequence of artificial parameters. An object of the class Artificial_Parameter_Sequence is a sequence of artificial parameters.

Definition at line 34 of file Artificial_Parameter_Sequence.java.

11.2.2 Constructor & Destructor Documentation

11.2.2.1 parma_polyhedra_library::Artificial_Parameter_Sequence::Artificial_Parameter_Sequence () [inline]

Default constructor: builds an empty sequence of artificial parameters.

Definition at line 38 of file Artificial_Parameter_Sequence.java.

11.2.3 Member Function Documentation

11.2.3.1 parma_polyhedra_library::Artificial_Parameter_Sequence::[static initializer] () [inline, static, package]

11.2.3.2 static native void parma_polyhedra_library::Artificial_Parameter_Sequence::initIDs () [static, private]

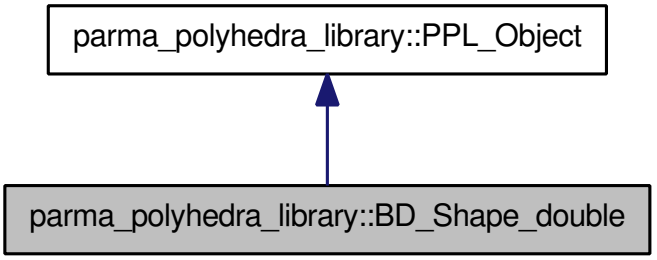
The documentation for this class was generated from the following file:

- Artificial_Parameter_Sequence.java

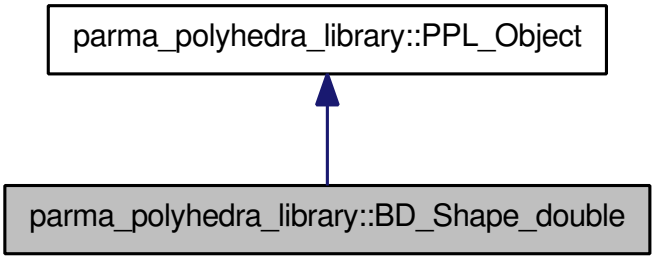
11.3 parma_polyhedra_library::BD_Shape_double Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<double>

Inheritance diagram for parma_polyhedra_library::BD_Shape_double:



Collaboration diagram for parma_polyhedra_library::BD_Shape_double:



Public Member Functions

- BD_Shape_double (long num_dimensions, Degenerate_Element kind)
- BD_Shape_double (Int8_Box y)
- BD_Shape_double (Int16_Box y)
- BD_Shape_double (Int32_Box y)
- BD_Shape_double (Int64_Box y)
- BD_Shape_double (Uint8_Box y)
- BD_Shape_double (Uint16_Box y)
- BD_Shape_double (Uint32_Box y)
- BD_Shape_double (Uint64_Box y)
- BD_Shape_double (Z_Box y)
- BD_Shape_double (Rational_Box y)
- BD_Shape_double (BD_Shape_int8_t y)
- BD_Shape_double (BD_Shape_int16_t y)
- BD_Shape_double (BD_Shape_int32_t y)
- BD_Shape_double (BD_Shape_int64_t y)
- BD_Shape_double (BD_Shape_mpz_class y)
- BD_Shape_double (BD_Shape_mpq_class y)
- BD_Shape_double (Octagonal_Shape_int8_t y)
- BD_Shape_double (Octagonal_Shape_int16_t y)
- BD_Shape_double (Octagonal_Shape_int32_t y)

- BD_Shape_double (Octagonal_Shape_int64_t y)
- BD_Shape_double (Octagonal_Shape_mpz_class y)
- BD_Shape_double (Octagonal_Shape_mpq_class y)
- BD_Shape_double (C_Polyhedron y)
- BD_Shape_double (NNC_Polyhedron y)
- BD_Shape_double (Grid y)
- BD_Shape_double (Float_Box y)
- BD_Shape_double (BD_Shape_float y)
- BD_Shape_double (Octagonal_Shape_float y)
- BD_Shape_double (Double_Box y)
- BD_Shape_double (BD_Shape_double y)
- BD_Shape_double (Octagonal_Shape_double y)
- BD_Shape_double (Long_Double_Box y)
- BD_Shape_double (BD_Shape_long_double y)
- BD_Shape_double (Octagonal_Shape_long_double y)
- BD_Shape_double (Int8_Box y, Complexity_Class complexity)
- BD_Shape_double (Int16_Box y, Complexity_Class complexity)
- BD_Shape_double (Int32_Box y, Complexity_Class complexity)
- BD_Shape_double (Int64_Box y, Complexity_Class complexity)
- BD_Shape_double (Uint8_Box y, Complexity_Class complexity)
- BD_Shape_double (Uint16_Box y, Complexity_Class complexity)
- BD_Shape_double (Uint32_Box y, Complexity_Class complexity)
- BD_Shape_double (Uint64_Box y, Complexity_Class complexity)
- BD_Shape_double (Z_Box y, Complexity_Class complexity)
- BD_Shape_double (Rational_Box y, Complexity_Class complexity)
- BD_Shape_double (BD_Shape_int8_t y, Complexity_Class complexity)
- BD_Shape_double (BD_Shape_int16_t y, Complexity_Class complexity)
- BD_Shape_double (BD_Shape_int32_t y, Complexity_Class complexity)
- BD_Shape_double (BD_Shape_int64_t y, Complexity_Class complexity)
- BD_Shape_double (BD_Shape_mpz_class y, Complexity_Class complexity)
- BD_Shape_double (BD_Shape_mpq_class y, Complexity_Class complexity)
- BD_Shape_double (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- BD_Shape_double (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- BD_Shape_double (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- BD_Shape_double (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- BD_Shape_double (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- BD_Shape_double (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- BD_Shape_double (C_Polyhedron y, Complexity_Class complexity)
- BD_Shape_double (NNC_Polyhedron y, Complexity_Class complexity)
- BD_Shape_double (Grid y, Complexity_Class complexity)
- BD_Shape_double (Float_Box y, Complexity_Class complexity)
- BD_Shape_double (BD_Shape_float y, Complexity_Class complexity)
- BD_Shape_double (Octagonal_Shape_float y, Complexity_Class complexity)
- BD_Shape_double (Double_Box y, Complexity_Class complexity)
- BD_Shape_double (BD_Shape_double y, Complexity_Class complexity)
- BD_Shape_double (Octagonal_Shape_double y, Complexity_Class complexity)
- BD_Shape_double (Long_Double_Box y, Complexity_Class complexity)
- BD_Shape_double (BD_Shape_long_double y, Complexity_Class complexity)
- BD_Shape_double (Octagonal_Shape_long_double y, Complexity_Class complexity)
- BD_Shape_double (Constraint_System cs)

- BD_Shape_double (Congruence_System cs)
- BD_Shape_double (Generator_System cs)
- native void swap (BD_Shape_double y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (BD_Shape_double y)
- native boolean strictly_contains (BD_Shape_double y)
- native boolean is_disjoint_from (BD_Shape_double y)
- native boolean equals (BD_Shape_double p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (BD_Shape_double p)
- native void upper_bound_assign (BD_Shape_double p)
- native void difference_assign (BD_Shape_double p)
- native void concatenate_assign (BD_Shape_double p)
- native void time_elapse_assign (BD_Shape_double p)

- native boolean upper_bound_assign_if_exact (BD_Shape_double y)
- native boolean simplify_using_context_assign (BD_Shape_double p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void BHMZ05_widening_assign (BD_Shape_double y, By_Reference< Integer > tp)
- native void H79_widening_assign (BD_Shape_double y, By_Reference< Integer > tp)
- native void widening_assign (BD_Shape_double y, By_Reference< Integer > tp)
- native void limited_BHMZ05_extrapolation_assign (BD_Shape_double y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_H79_extrapolation_assign (BD_Shape_double y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (BD_Shape_double y, Constraint_System cs, By_Reference< Integer > tp)
- native void CC76_extrapolation_assign (BD_Shape_double arg, By_Reference< Integer > tp)
- native void CC76_narrowing_assign (BD_Shape_double arg)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native int hashCode ()
- native String toString ()

Static Public Member Functions

- static native Pair< BD_Shape_double, Pointset_Powerset_NNC_Polyhedron > linear_partition (BD_Shape_double p, BD_Shape_double q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- BD_Shape_double ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)

- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.3.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<double>

Definition at line 33 of file BD_Shape_double.java.

11.3.2 Constructor & Destructor Documentation

11.3.2.1 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.2 parma_polyhedra_library::BD_Shape_double::BD_Shape_double () [inline, private]

Definition at line 45 of file BD_Shape_double.java.

11.3.2.3 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Int8_Box *y*) [inline]

Definition at line 52 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.4 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Int16_Box *y*) [inline]

Definition at line 56 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.5 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Int32_Box *y*) [inline]

Definition at line 60 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.6 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Int64_Box *y*) [inline]

Definition at line 64 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.7 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Uint8_Box *y*) [inline]

Definition at line 68 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.8 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Uint16_Box *y*) [inline]

Definition at line 72 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.9 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Uint32_Box *y*) [inline]

Definition at line 76 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.10 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Uint64_Box *y*) [inline]

Definition at line 80 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.11 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Z_Box *y*) [inline]

Definition at line 84 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.12 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Rational_Box *y*) [inline]

Definition at line 88 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.13 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.14 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.15 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.16 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.17 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.18 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.19 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.20 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.21 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.22 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.23 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.24 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.25 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (C_Polyhedron *y*) [inline]

Definition at line 140 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.26 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.27 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Grid *y*) [inline]

Definition at line 148 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.28 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Float_Box *y*) [inline]

Definition at line 152 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.29 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (BD_Shape_float *y*) [inline]

Definition at line 156 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.30 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.31 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Double_Box *y*) [inline]

Definition at line 164 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.32 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (BD_Shape_double *y*) [inline]

Definition at line 168 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.33 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.34 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Long_Double_Box *y*) [inline]

Definition at line 176 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.35 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.36 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.37 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.38 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.39 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.40 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.41 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.42 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.43 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.44 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.45 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.46 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.47 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.48 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.49 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.50 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.51 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.52 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.53 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.54 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.55 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.56 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.57 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.58 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.59 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.60 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.61 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.62 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.63 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.64 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.65 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.66 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.67 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.68 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.69 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.70 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.71 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Constraint_System *cs*) [inline]

Definition at line 334 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.72 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Congruence_System *cs*) [inline]

Definition at line 338 of file BD_Shape_double.java.

References build_cpp_object().

11.3.2.73 parma_polyhedra_library::BD_Shape_double::BD_Shape_double (Generator_System *cs*) [inline]

Definition at line 342 of file BD_Shape_double.java.

References build_cpp_object().

11.3.3 Member Function Documentation

11.3.3.1 native void parma_polyhedra_library::BD_Shape_double::add_congruence (Congruence *c*)

11.3.3.2 native void parma_polyhedra_library::BD_Shape_double::add_congruences (Congruence_System *c*)

11.3.3.3 native void parma_polyhedra_library::BD_Shape_double::add_constraint (Constraint *c*)

11.3.3.4 native void parma_polyhedra_library::BD_Shape_double::add_constraints (Constraint_System *c*)

11.3.3.5 native void parma_polyhedra_library::BD_Shape_double::add_space_dimensions_and_embed (long *m*)

11.3.3.6 native void parma_polyhedra_library::BD_Shape_double::add_space_dimensions_and_project (long *m*)

11.3.3.7 native long parma_polyhedra_library::BD_Shape_double::affine_dimension ()

11.3.3.8 native void parma_polyhedra_library::BD_Shape_double::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.3.3.9 native void parma_polyhedra_library::BD_Shape_double::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.3.3.10 native String parma_polyhedra_library::BD_Shape_double::ascii_dump ()

11.3.3.11 native void parma_polyhedra_library::BD_Shape_double::BHMZ05_widening_assign (BD_Shape_double *y*, By_Reference< Integer > *tp*)

11.3.3.12 native void parma_polyhedra_library::BD_Shape_double::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.3.3.13 native void parma_polyhedra_library::BD_Shape_double::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.3.3.14 native boolean parma_polyhedra_library::BD_Shape_double::bounds_from_above (Linear_Expression *expr*)

11.3.3.15 native boolean parma_polyhedra_library::BD_Shape_double::bounds_from_below (Linear_Expression *expr*)

11.3.3.16 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.3.3.17 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.3.3.18 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.3.3.19 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (BD_Shape_long_double *y*) `[private]`

11.3.3.20 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.3.3.21 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Long_Double_Box *y*) [private]

11.3.3.22 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.3.3.23 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.3.3.24 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.3.3.25 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (BD_Shape_double *y*) [private]

11.3.3.26 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.3.3.27 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Double_Box *y*) [private]

11.3.3.28 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.3.3.29 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.3.3.30 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.3.3.31 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (BD_Shape_float *y*) [private]

11.3.3.32 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.3.3.33 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Float_Box *y*) [private]

11.3.3.34 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.3.3.35 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Grid *y*) [private]

11.3.3.36 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.3.3.37 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (NNC_Polyhedron *y*) [private]

11.3.3.38 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.3.3.39 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (C_Polyhedron *y*) [private]

11.3.3.40 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.3.3.41 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.3.3.42 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.3.3.43 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.3.3.44 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.3.3.45 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.3.3.46 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.3.3.47 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.3.3.48 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.3.3.49 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.3.3.50 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.3.3.51 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.3.3.52 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.3.3.53 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.3.3.54 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.3.3.55 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.3.3.56 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.3.3.57 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.3.3.58 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.3.3.59 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.3.3.60 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.3.3.61 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.3.3.62 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.3.3.63 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.3.3.64 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.3.3.65 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Rational_Box *y*) [private]

11.3.3.66 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.3.3.67 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Z_Box *y*) [private]

11.3.3.68 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.3.3.69 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Uint64_Box *y*) [private]

11.3.3.70 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.3.3.71 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Uint32_Box *y*) [private]

11.3.3.72 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.3.3.73 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Uint16_Box *y*) [private]

11.3.3.74 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.3.3.75 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Uint8_Box *y*) [private]

11.3.3.76 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.3.3.77 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Int64_Box *y*) [private]

11.3.3.78 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.3.3.79 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Int32_Box *y*) [private]

11.3.3.80 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.3.3.81 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Int16_Box *y*) [private]

11.3.3.82 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.3.3.83 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Int8_Box *y*) [private]

11.3.3.84 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.3.3.85 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Generator_System *cs*) [private]

11.3.3.86 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Congruence_System *cs*) [private]

11.3.3.87 native void parma_polyhedra_library::BD_Shape_double::build_cpp_object (Constraint_System *cs*) [private]

Referenced by BD_Shape_double().

11.3.3.88 native void parma_polyhedra_library::BD_Shape_double::CC76_extrapolation_assign (BD_Shape_double *arg*, By_Reference< Integer > *tp*)

11.3.3.89 native void parma_polyhedra_library::BD_Shape_double::CC76_narrowing_assign (BD_Shape_double *arg*)

11.3.3.90 native void parma_polyhedra_library::BD_Shape_double::concatenate_assign (BD_Shape_double *p*)

11.3.3.91 native Congruence_System parma_polyhedra_library::BD_Shape_double::congruences ()

11.3.3.92 native boolean parma_polyhedra_library::BD_Shape_double::constrains (Variable *var*)

11.3.3.93 native Constraint_System parma_polyhedra_library::BD_Shape_double::constraints ()

11.3.3.94 native boolean parma_polyhedra_library::BD_Shape_double::contains (BD_Shape_double *y*)

11.3.3.95 native boolean parma_polyhedra_library::BD_Shape_double::contains_integer_point ()

11.3.3.96 native void parma_polyhedra_library::BD_Shape_double::difference_assign (BD_Shape_double *p*)

11.3.3.97 native void parma_polyhedra_library::BD_Shape_double::drop_some_non_integer_points (Integer *complexity_threshold*)

11.3.3.98 native void parma_polyhedra_library::BD_Shape_double::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.3.3.99 boolean parma_polyhedra_library::BD_Shape_double::equals (Object *y*) `[inline]`

Definition at line 465 of file BD_Shape_double.java.

References equals().

11.3.3.100 native boolean parma_polyhedra_library::BD_Shape_double::equals (BD_Shape_double *p*)

Referenced by equals().

11.3.3.101 native void parma_polyhedra_library::BD_Shape_double::expand_space_dimension (Variable *var*, long *m*)

11.3.3.102 native long parma_polyhedra_library::BD_Shape_double::external_memory_in_bytes ()

11.3.3.103 native void parma_polyhedra_library::BD_Shape_double::finalize () [protected]

11.3.3.104 native void parma_polyhedra_library::BD_Shape_double::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.3.3.105 native void parma_polyhedra_library::BD_Shape_double::free ()

11.3.3.106 native boolean parma_polyhedra_library::BD_Shape_double::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.3.3.107 native void parma_polyhedra_library::BD_Shape_double::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.3.3.108 native void parma_polyhedra_library::BD_Shape_double::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.3.3.109 native void parma_polyhedra_library::BD_Shape_double::generalized_affine_-preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.3.3.110 native void parma_polyhedra_library::BD_Shape_double::generalized_affine_-preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.3.3.111 native void parma_polyhedra_library::BD_Shape_double::H79_widening_assign (BD_Shape_double *y*, By_Reference< Integer > *tp*)

11.3.3.112 native int parma_polyhedra_library::BD_Shape_double::hashCode ()

11.3.3.113 native void parma_polyhedra_library::BD_Shape_double::intersection_assign (BD_Shape_double *p*)

11.3.3.114 native boolean parma_polyhedra_library::BD_Shape_double::is_bounded ()

11.3.3.115 native boolean parma_polyhedra_library::BD_Shape_double::is_discrete ()

11.3.3.116 native boolean parma_polyhedra_library::BD_Shape_double::is_disjoint_from (BD_Shape_double *y*)

11.3.3.117 native boolean parma_polyhedra_library::BD_Shape_double::is_empty ()

11.3.3.118 native boolean parma_polyhedra_library::BD_Shape_double::is_topologically_closed ()

11.3.3.119 native boolean parma_polyhedra_library::BD_Shape_double::is_universe ()

11.3.3.120 native void parma_polyhedra_library::BD_Shape_double::limited_BHMZ05_-extrapolation_assign (BD_Shape_double *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.3.3.121 native void parma_polyhedra_library::BD_Shape_double::limited_CC76_-extrapolation_assign (BD_Shape_double *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.3.3.122 native void parma_polyhedra_library::BD_Shape_double::limited_H79_-extrapolation_assign (BD_Shape_double *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.3.3.123 static native Pair<BD_Shape_double, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::BD_Shape_double::linear_partition (BD_Shape_double *p*, BD_Shape_double *q*) `[static]`

11.3.3.124 native void parma_polyhedra_library::BD_Shape_double::map_space_dimensions (Partial_Function *pfunc*)

11.3.3.125 native boolean parma_polyhedra_library::BD_Shape_double::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.3.3.126 native boolean parma_polyhedra_library::BD_Shape_double::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.3.3.127 native boolean parma_polyhedra_library::BD_Shape_double::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.3.3.128 native boolean parma_polyhedra_library::BD_Shape_double::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.3.3.129 native Congruence_System parma_polyhedra_library::BD_Shape_double::minimized_congruences ()

11.3.3.130 native Constraint_System parma_polyhedra_library::BD_Shape_double::minimized_constraints ()

11.3.3.131 native boolean parma_polyhedra_library::BD_Shape_double::OK ()

11.3.3.132 native void parma_polyhedra_library::BD_Shape_double::refine_with_congruence (Congruence *c*)

11.3.3.133 native void parma_polyhedra_library::BD_Shape_double::refine_with_congruences (Congruence_System *c*)

11.3.3.134 native void parma_polyhedra_library::BD_Shape_double::refine_with_constraint (Constraint *c*)

11.3.3.135 native void parma_polyhedra_library::BD_Shape_double::refine_with_constraints (Constraint_System *c*)

11.3.3.136 native Poly_Con_Relation parma_polyhedra_library::BD_Shape_double::relation_with (Congruence *c*)

11.3.3.137 native Poly_Gen_Relation parma_polyhedra_library::BD_Shape_double::relation_with (Generator *c*)

11.3.3.138 native Poly_Con_Relation parma_polyhedra_library::BD_Shape_double::relation_with (Constraint *c*)

11.3.3.139 native void parma_polyhedra_library::BD_Shape_double::remove_higher_space_dimensions (long *new_dimension*)

11.3.3.140 native void parma_polyhedra_library::BD_Shape_double::remove_space_dimensions (Variables_Set *vars*)

11.3.3.141 native boolean parma_polyhedra_library::BD_Shape_double::simplify_using_context_assign (BD_Shape_double *p*)

11.3.3.142 native long parma_polyhedra_library::BD_Shape_double::space_dimension ()

11.3.3.143 native boolean parma_polyhedra_library::BD_Shape_double::strictly_contains (BD_Shape_double *y*)

11.3.3.144 native void parma_polyhedra_library::BD_Shape_double::swap (BD_Shape_double *y*)

11.3.3.145 native void parma_polyhedra_library::BD_Shape_double::time_elapse_assign (BD_Shape_double *p*)

11.3.3.146 native void parma_polyhedra_library::BD_Shape_double::topological_closure_assign ()

11.3.3.147 native String parma_polyhedra_library::BD_Shape_double::toString ()

11.3.3.148 native long parma_polyhedra_library::BD_Shape_double::total_memory_in_bytes ()

11.3.3.149 native void parma_polyhedra_library::BD_Shape_double::unconstrain_space_dimension (Variable *var*)

11.3.3.150 native void parma_polyhedra_library::BD_Shape_double::unconstrain_space_dimensions (Variables_Set *vars*)

11.3.3.151 native void parma_polyhedra_library::BD_Shape_double::upper_bound_assign (BD_Shape_double *p*)

11.3.3.152 native boolean parma_polyhedra_library::BD_Shape_double::upper_bound_assign_if_exact (BD_Shape_double *y*)

11.3.3.153 native void parma_polyhedra_library::BD_Shape_double::widening_assign (BD_Shape_double *y*, By_Reference< Integer > *tp*)

11.3.3.154 native void parma_polyhedra_library::BD_Shape_double::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

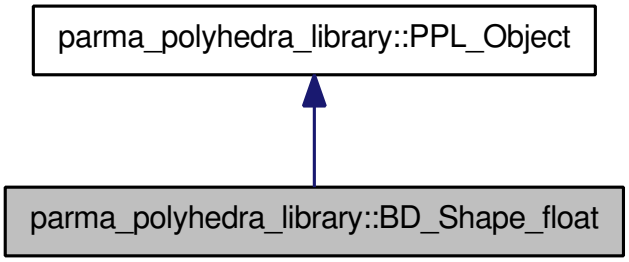
The documentation for this class was generated from the following file:

- BD_Shape_double.java

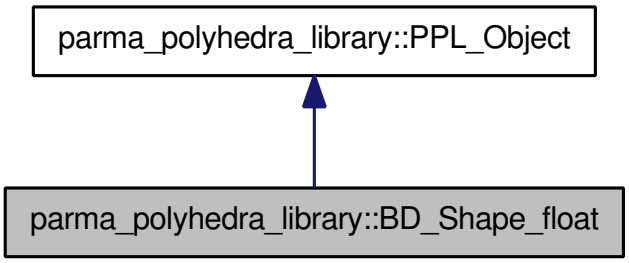
11.4 parma_polyhedra_library::BD_Shape_float Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<float>

Inheritance diagram for parma_polyhedra_library::BD_Shape_float:



Collaboration diagram for parma_polyhedra_library::BD_Shape_float:



Public Member Functions

- BD_Shape_float (long num_dimensions, Degenerate_Element kind)
- BD_Shape_float (Int8_Box y)
- BD_Shape_float (Int16_Box y)
- BD_Shape_float (Int32_Box y)
- BD_Shape_float (Int64_Box y)
- BD_Shape_float (Uint8_Box y)
- BD_Shape_float (Uint16_Box y)
- BD_Shape_float (Uint32_Box y)
- BD_Shape_float (Uint64_Box y)
- BD_Shape_float (Z_Box y)
- BD_Shape_float (Rational_Box y)
- BD_Shape_float (BD_Shape_int8_t y)
- BD_Shape_float (BD_Shape_int16_t y)
- BD_Shape_float (BD_Shape_int32_t y)
- BD_Shape_float (BD_Shape_int64_t y)
- BD_Shape_float (BD_Shape_mpz_class y)
- BD_Shape_float (BD_Shape_mpq_class y)
- BD_Shape_float (Octagonal_Shape_int8_t y)
- BD_Shape_float (Octagonal_Shape_int16_t y)
- BD_Shape_float (Octagonal_Shape_int32_t y)
- BD_Shape_float (Octagonal_Shape_int64_t y)
- BD_Shape_float (Octagonal_Shape_mpz_class y)
- BD_Shape_float (Octagonal_Shape_mpq_class y)
- BD_Shape_float (C_Polyhedron y)

- BD_Shape_float (NNC_Polyhedron y)
- BD_Shape_float (Grid y)
- BD_Shape_float (Float_Box y)
- BD_Shape_float (BD_Shape_float y)
- BD_Shape_float (Octagonal_Shape_float y)
- BD_Shape_float (Double_Box y)
- BD_Shape_float (BD_Shape_double y)
- BD_Shape_float (Octagonal_Shape_double y)
- BD_Shape_float (Long_Double_Box y)
- BD_Shape_float (BD_Shape_long_double y)
- BD_Shape_float (Octagonal_Shape_long_double y)
- BD_Shape_float (Int8_Box y, Complexity_Class complexity)
- BD_Shape_float (Int16_Box y, Complexity_Class complexity)
- BD_Shape_float (Int32_Box y, Complexity_Class complexity)
- BD_Shape_float (Int64_Box y, Complexity_Class complexity)
- BD_Shape_float (Uint8_Box y, Complexity_Class complexity)
- BD_Shape_float (Uint16_Box y, Complexity_Class complexity)
- BD_Shape_float (Uint32_Box y, Complexity_Class complexity)
- BD_Shape_float (Uint64_Box y, Complexity_Class complexity)
- BD_Shape_float (Z_Box y, Complexity_Class complexity)
- BD_Shape_float (Rational_Box y, Complexity_Class complexity)
- BD_Shape_float (BD_Shape_int8_t y, Complexity_Class complexity)
- BD_Shape_float (BD_Shape_int16_t y, Complexity_Class complexity)
- BD_Shape_float (BD_Shape_int32_t y, Complexity_Class complexity)
- BD_Shape_float (BD_Shape_int64_t y, Complexity_Class complexity)
- BD_Shape_float (BD_Shape_mpz_class y, Complexity_Class complexity)
- BD_Shape_float (BD_Shape_mpq_class y, Complexity_Class complexity)
- BD_Shape_float (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- BD_Shape_float (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- BD_Shape_float (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- BD_Shape_float (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- BD_Shape_float (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- BD_Shape_float (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- BD_Shape_float (C_Polyhedron y, Complexity_Class complexity)
- BD_Shape_float (NNC_Polyhedron y, Complexity_Class complexity)
- BD_Shape_float (Grid y, Complexity_Class complexity)
- BD_Shape_float (Float_Box y, Complexity_Class complexity)
- BD_Shape_float (BD_Shape_float y, Complexity_Class complexity)
- BD_Shape_float (Octagonal_Shape_float y, Complexity_Class complexity)
- BD_Shape_float (Double_Box y, Complexity_Class complexity)
- BD_Shape_float (BD_Shape_double y, Complexity_Class complexity)
- BD_Shape_float (Octagonal_Shape_double y, Complexity_Class complexity)
- BD_Shape_float (Long_Double_Box y, Complexity_Class complexity)
- BD_Shape_float (BD_Shape_long_double y, Complexity_Class complexity)
- BD_Shape_float (Octagonal_Shape_long_double y, Complexity_Class complexity)
- BD_Shape_float (Constraint_System cs)
- BD_Shape_float (Congruence_System cs)
- BD_Shape_float (Generator_System cs)
- native void swap (BD_Shape_float y)
- native long space_dimension ()

- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (BD_Shape_float y)
- native boolean strictly_contains (BD_Shape_float y)
- native boolean is_disjoint_from (BD_Shape_float y)
- native boolean equals (BD_Shape_float p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (BD_Shape_float p)
- native void upper_bound_assign (BD_Shape_float p)
- native void difference_assign (BD_Shape_float p)
- native void concatenate_assign (BD_Shape_float p)
- native void time_elapse_assign (BD_Shape_float p)
- native boolean upper_bound_assign_if_exact (BD_Shape_float y)
- native boolean simplify_using_context_assign (BD_Shape_float p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)

- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void BHMZ05_widening_assign (BD_Shape_float y, By_Reference< Integer > tp)
- native void H79_widening_assign (BD_Shape_float y, By_Reference< Integer > tp)
- native void widening_assign (BD_Shape_float y, By_Reference< Integer > tp)
- native void limited_BHMZ05_extrapolation_assign (BD_Shape_float y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_H79_extrapolation_assign (BD_Shape_float y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (BD_Shape_float y, Constraint_System cs, By_Reference< Integer > tp)
- native void CC76_extrapolation_assign (BD_Shape_float arg, By_Reference< Integer > tp)
- native void CC76_narrowing_assign (BD_Shape_float arg)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native int hashCode ()
- native String toString ()

Static Public Member Functions

- static native Pair< BD_Shape_float, Pointset_Powerset_NNC_Polyhedron > linear_partition (BD_Shape_float p, BD_Shape_float q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- BD_Shape_float ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)

- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.4.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<float>

Definition at line 33 of file BD_Shape_float.java.

11.4.2 Constructor & Destructor Documentation

11.4.2.1 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.2 parma_polyhedra_library::BD_Shape_float::BD_Shape_float () [inline, private]

Definition at line 45 of file BD_Shape_float.java.

11.4.2.3 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Int8_Box *y*) [inline]

Definition at line 52 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.4 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Int16_Box *y*) [inline]

Definition at line 56 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.5 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Int32_Box *y*) [inline]

Definition at line 60 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.6 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Int64_Box *y*) [inline]

Definition at line 64 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.7 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Uint8_Box *y*) [inline]

Definition at line 68 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.8 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Uint16_Box *y*) [inline]

Definition at line 72 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.9 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Uint32_Box *y*) [inline]

Definition at line 76 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.10 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Uint64_Box *y*) [inline]

Definition at line 80 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.11 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Z_Box *y*) [inline]

Definition at line 84 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.12 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Rational_Box *y*) [inline]

Definition at line 88 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.13 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.14 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.15 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.16 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.17 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.18 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.19 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.20 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.21 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.22 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.23 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.24 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.25 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (C_Polyhedron *y*) [inline]

Definition at line 140 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.26 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.27 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Grid *y*) [inline]

Definition at line 148 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.28 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Float_Box *y*) [inline]

Definition at line 152 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.29 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (BD_Shape_float *y*) [inline]

Definition at line 156 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.30 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.31 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Double_Box *y*) [inline]

Definition at line 164 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.32 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (BD_Shape_double *y*) [inline]

Definition at line 168 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.33 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.34 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Long_Double_Box *y*) [inline]

Definition at line 176 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.35 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.36 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.37 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.38 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.39 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.40 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.41 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.42 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.43 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.44 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.45 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.46 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.47 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.48 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.49 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.50 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.51 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.52 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.53 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.54 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.55 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.56 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.57 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.58 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.59 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.60 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.61 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.62 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.63 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.64 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.65 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.66 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.67 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.68 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.69 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.70 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.71 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Constraint_System *cs*) [inline]

Definition at line 334 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.72 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Congruence_System *cs*) [inline]

Definition at line 338 of file BD_Shape_float.java.

References build_cpp_object().

11.4.2.73 parma_polyhedra_library::BD_Shape_float::BD_Shape_float (Generator_System *cs*) [inline]

Definition at line 342 of file BD_Shape_float.java.

References build_cpp_object().

11.4.3 Member Function Documentation

11.4.3.1 native void parma_polyhedra_library::BD_Shape_float::add_congruence (Congruence *c*)

11.4.3.2 native void parma_polyhedra_library::BD_Shape_float::add_congruences (Congruence_System *c*)

11.4.3.3 native void parma_polyhedra_library::BD_Shape_float::add_constraint (Constraint *c*)

11.4.3.4 native void parma_polyhedra_library::BD_Shape_float::add_constraints (Constraint_System *c*)

11.4.3.5 native void parma_polyhedra_library::BD_Shape_float::add_space_dimensions_and_embed (long *m*)

11.4.3.6 native void parma_polyhedra_library::BD_Shape_float::add_space_dimensions_and_project (long *m*)

11.4.3.7 native long parma_polyhedra_library::BD_Shape_float::affine_dimension ()

11.4.3.8 native void parma_polyhedra_library::BD_Shape_float::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.4.3.9 native void parma_polyhedra_library::BD_Shape_float::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.4.3.10 native String parma_polyhedra_library::BD_Shape_float::ascii_dump ()

11.4.3.11 native void parma_polyhedra_library::BD_Shape_float::BHMZ05_widening_assign (BD_Shape_float *y*, By_Reference< Integer > *tp*)

11.4.3.12 native void parma_polyhedra_library::BD_Shape_float::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.4.3.13 native void parma_polyhedra_library::BD_Shape_float::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.4.3.14 native boolean parma_polyhedra_library::BD_Shape_float::bounds_from_above (Linear_Expression *expr*)

11.4.3.15 native boolean parma_polyhedra_library::BD_Shape_float::bounds_from_below (Linear_Expression *expr*)

11.4.3.16 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.4.3.17 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.4.3.18 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.4.3.19 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (BD_Shape_long_double *y*) `[private]`

11.4.3.20 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) `[private]`

11.4.3.21 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Long_Double_Box *y*) `[private]`

11.4.3.22 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.4.3.23 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.4.3.24 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.4.3.25 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (BD_Shape_double *y*) [private]

11.4.3.26 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.4.3.27 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Double_Box *y*) [private]

11.4.3.28 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.4.3.29 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.4.3.30 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.4.3.31 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (BD_Shape_float *y*) [private]

11.4.3.32 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.4.3.33 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Float_Box *y*) [private]

11.4.3.34 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.4.3.35 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Grid *y*) [private]

11.4.3.36 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.4.3.37 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (NNC_Polyhedron *y*) [private]

11.4.3.38 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.4.3.39 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (C_Polyhedron *y*) [private]

11.4.3.40 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.4.3.41 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.4.3.42 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.4.3.43 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.4.3.44 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.4.3.45 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.4.3.46 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.4.3.47 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.4.3.48 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.4.3.49 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.4.3.50 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.4.3.51 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.4.3.52 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.4.3.53 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.4.3.54 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.4.3.55 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.4.3.56 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.4.3.57 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.4.3.58 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.4.3.59 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.4.3.60 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.4.3.61 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.4.3.62 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.4.3.63 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.4.3.64 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.4.3.65 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Rational_Box *y*) [private]

11.4.3.66 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.4.3.67 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Z_Box *y*) [private]

11.4.3.68 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.4.3.69 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Uint64_Box *y*) [private]

11.4.3.70 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.4.3.71 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Uint32_Box *y*) [private]

11.4.3.72 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.4.3.73 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Uint16_Box *y*) [private]

11.4.3.74 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.4.3.75 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Uint8_Box *y*) [private]

11.4.3.76 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.4.3.77 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Int64_Box *y*) [private]

11.4.3.78 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.4.3.79 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Int32_Box *y*) [private]

11.4.3.80 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.4.3.81 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Int16_Box *y*) [private]

11.4.3.82 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.4.3.83 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Int8_Box *y*) [private]

11.4.3.84 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.4.3.85 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Generator_System *cs*) [private]

11.4.3.86 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Congruence_System *cs*) [private]

11.4.3.87 native void parma_polyhedra_library::BD_Shape_float::build_cpp_object (Constraint_System *cs*) [private]

Referenced by BD_Shape_float().

11.4.3.88 native void parma_polyhedra_library::BD_Shape_float::CC76_extrapolation_assign (BD_Shape_float *arg*, By_Reference< Integer > *tp*)

11.4.3.89 native void parma_polyhedra_library::BD_Shape_float::CC76_narrowing_assign (BD_Shape_float *arg*)

11.4.3.90 native void parma_polyhedra_library::BD_Shape_float::concatenate_assign (BD_Shape_float *p*)

11.4.3.91 native Congruence_System parma_polyhedra_library::BD_Shape_float::congruences ()

11.4.3.92 native boolean parma_polyhedra_library::BD_Shape_float::constrains (Variable *var*)

11.4.3.93 native Constraint_System parma_polyhedra_library::BD_Shape_float::constraints ()

11.4.3.94 native boolean parma_polyhedra_library::BD_Shape_float::contains (BD_Shape_float *y*)

11.4.3.95 native boolean parma_polyhedra_library::BD_Shape_float::contains_integer_point ()

11.4.3.96 native void parma_polyhedra_library::BD_Shape_float::difference_assign (BD_Shape_float *p*)

11.4.3.97 native void parma_polyhedra_library::BD_Shape_float::drop_some_non_integer_points (Integer *complexity_threshold*)

11.4.3.98 native void parma_polyhedra_library::BD_Shape_float::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.4.3.99 boolean parma_polyhedra_library::BD_Shape_float::equals (Object *y*) [inline]

Definition at line 465 of file BD_Shape_float.java.

References equals().

11.4.3.100 native boolean parma_polyhedra_library::BD_Shape_float::equals (BD_Shape_float *p*)

Referenced by equals().

11.4.3.101 native void parma_polyhedra_library::BD_Shape_float::expand_space_dimension (Variable *var*, long *m*)

11.4.3.102 native long parma_polyhedra_library::BD_Shape_float::external_memory_in_bytes ()

11.4.3.103 native void parma_polyhedra_library::BD_Shape_float::finalize () [protected]

11.4.3.104 native void parma_polyhedra_library::BD_Shape_float::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.4.3.105 native void parma_polyhedra_library::BD_Shape_float::free ()

11.4.3.106 native boolean parma_polyhedra_library::BD_Shape_float::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.4.3.107 native void parma_polyhedra_library::BD_Shape_float::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.4.3.108 native void parma_polyhedra_library::BD_Shape_float::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.4.3.109 native void parma_polyhedra_library::BD_Shape_float::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.4.3.110 native void parma_polyhedra_library::BD_Shape_float::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.4.3.111 native void parma_polyhedra_library::BD_Shape_float::H79_widening_assign (BD_Shape_float *y*, By_Reference< Integer > *tp*)

11.4.3.112 native int parma_polyhedra_library::BD_Shape_float::hashCode ()

11.4.3.113 native void parma_polyhedra_library::BD_Shape_float::intersection_assign (BD_Shape_float *p*)

11.4.3.114 native boolean parma_polyhedra_library::BD_Shape_float::is_bounded ()

11.4.3.115 native boolean parma_polyhedra_library::BD_Shape_float::is_discrete ()

11.4.3.116 native boolean parma_polyhedra_library::BD_Shape_float::is_disjoint_from (BD_Shape_float *y*)

11.4.3.117 native boolean parma_polyhedra_library::BD_Shape_float::is_empty ()

11.4.3.118 native boolean parma_polyhedra_library::BD_Shape_float::is_topologically_closed ()

11.4.3.119 native boolean parma_polyhedra_library::BD_Shape_float::is_universe ()

11.4.3.120 native void parma_polyhedra_library::BD_Shape_float::limited_BHMZ05_extrapolation_assign (BD_Shape_float *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.4.3.121 native void parma_polyhedra_library::BD_Shape_float::limited_CC76_extrapolation_assign (BD_Shape_float *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.4.3.122 native void parma_polyhedra_library::BD_Shape_float::limited_H79_extrapolation_assign (BD_Shape_float *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.4.3.123 static native Pair<BD_Shape_float, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::BD_Shape_float::linear_partition (BD_Shape_float *p*, BD_Shape_float *q*) `[static]`

11.4.3.124 native void parma_polyhedra_library::BD_Shape_float::map_space_dimensions (Partial_Function *pfunc*)

11.4.3.125 native boolean parma_polyhedra_library::BD_Shape_float::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.4.3.126 native boolean parma_polyhedra_library::BD_Shape_float::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.4.3.127 native boolean parma_polyhedra_library::BD_Shape_float::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.4.3.128 native boolean parma_polyhedra_library::BD_Shape_float::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.4.3.129 native Congruence_System parma_polyhedra_library::BD_Shape_float::minimized_congruences ()

11.4.3.130 native Constraint_System parma_polyhedra_library::BD_Shape_float::minimized_constraints ()

11.4.3.131 native boolean parma_polyhedra_library::BD_Shape_float::OK ()

11.4.3.132 native void parma_polyhedra_library::BD_Shape_float::refine_with_congruence (Congruence *c*)

11.4.3.133 native void parma_polyhedra_library::BD_Shape_float::refine_with_congruences (Congruence_System *c*)

11.4.3.134 native void parma_polyhedra_library::BD_Shape_float::refine_with_constraint (Constraint *c*)

11.4.3.135 native void parma_polyhedra_library::BD_Shape_float::refine_with_constraints (Constraint_System *c*)

11.4.3.136 native Poly_Con_Relation parma_polyhedra_library::BD_Shape_float::relation_with (Congruence *c*)

11.4.3.137 native Poly_Gen_Relation parma_polyhedra_library::BD_Shape_float::relation_with (Generator *c*)

11.4.3.138 native Poly_Con_Relation parma_polyhedra_library::BD_Shape_float::relation_with (Constraint *c*)

11.4.3.139 native void parma_polyhedra_library::BD_Shape_float::remove_higher_space_dimensions (long *new_dimension*)

11.4.3.140 native void parma_polyhedra_library::BD_Shape_float::remove_space_dimensions (Variables_Set *vars*)

11.4.3.141 native boolean parma_polyhedra_library::BD_Shape_float::simplify_using_context_-assign (BD_Shape_float *p*)

11.4.3.142 native long parma_polyhedra_library::BD_Shape_float::space_dimension ()

11.4.3.143 native boolean parma_polyhedra_library::BD_Shape_float::strictly_contains (BD_Shape_float *y*)

11.4.3.144 native void parma_polyhedra_library::BD_Shape_float::swap (BD_Shape_float *y*)

11.4.3.145 native void parma_polyhedra_library::BD_Shape_float::time_elapse_assign (BD_Shape_float *p*)

11.4.3.146 native void parma_polyhedra_library::BD_Shape_float::topological_closure_assign ()

11.4.3.147 native String parma_polyhedra_library::BD_Shape_float::toString ()

11.4.3.148 native long parma_polyhedra_library::BD_Shape_float::total_memory_in_bytes ()

11.4.3.149 native void parma_polyhedra_library::BD_Shape_float::unconstrain_space_dimension (Variable *var*)

11.4.3.150 native void parma_polyhedra_library::BD_Shape_float::unconstrain_space_-dimensions (Variables_Set *vars*)

11.4.3.151 native void parma_polyhedra_library::BD_Shape_float::upper_bound_assign (BD_Shape_float *p*)

11.4.3.152 native boolean parma_polyhedra_library::BD_Shape_float::upper_bound_assign_if_exact (BD_Shape_float *y*)

11.4.3.153 native void parma_polyhedra_library::BD_Shape_float::widening_assign (BD_Shape_float *y*, By_Reference< Integer > *tp*)

11.4.3.154 native void parma_polyhedra_library::BD_Shape_float::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

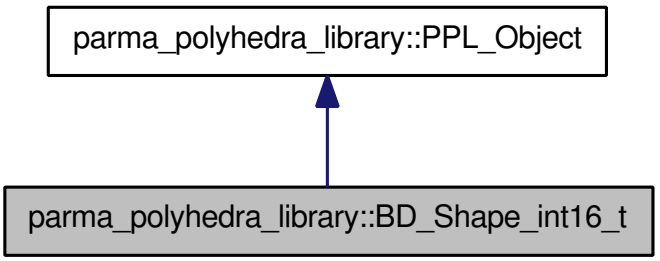
The documentation for this class was generated from the following file:

- BD_Shape_float.java

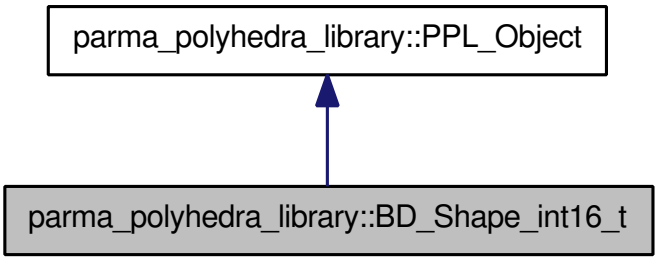
11.5 parma_polyhedra_library::BD_Shape_int16_t Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<int16_t>

Inheritance diagram for parma_polyhedra_library::BD_Shape_int16_t:



Collaboration diagram for parma_polyhedra_library::BD_Shape_int16_t:



Public Member Functions

- BD_Shape_int16_t (long num_dimensions, Degenerate_Element kind)
- BD_Shape_int16_t (Int8_Box y)
- BD_Shape_int16_t (Int16_Box y)
- BD_Shape_int16_t (Int32_Box y)
- BD_Shape_int16_t (Int64_Box y)
- BD_Shape_int16_t (Uint8_Box y)
- BD_Shape_int16_t (Uint16_Box y)
- BD_Shape_int16_t (Uint32_Box y)
- BD_Shape_int16_t (Uint64_Box y)
- BD_Shape_int16_t (Z_Box y)
- BD_Shape_int16_t (Rational_Box y)
- BD_Shape_int16_t (BD_Shape_int8_t y)
- BD_Shape_int16_t (BD_Shape_int16_t y)
- BD_Shape_int16_t (BD_Shape_int32_t y)
- BD_Shape_int16_t (BD_Shape_int64_t y)
- BD_Shape_int16_t (BD_Shape_mpz_class y)
- BD_Shape_int16_t (BD_Shape_mpq_class y)
- BD_Shape_int16_t (Octagonal_Shape_int8_t y)
- BD_Shape_int16_t (Octagonal_Shape_int16_t y)
- BD_Shape_int16_t (Octagonal_Shape_int32_t y)
- BD_Shape_int16_t (Octagonal_Shape_int64_t y)
- BD_Shape_int16_t (Octagonal_Shape_mpz_class y)
- BD_Shape_int16_t (Octagonal_Shape_mpq_class y)
- BD_Shape_int16_t (C_Polyhedron y)
- BD_Shape_int16_t (NNC_Polyhedron y)
- BD_Shape_int16_t (Grid y)
- BD_Shape_int16_t (Float_Box y)
- BD_Shape_int16_t (BD_Shape_float y)
- BD_Shape_int16_t (Octagonal_Shape_float y)
- BD_Shape_int16_t (Double_Box y)
- BD_Shape_int16_t (BD_Shape_double y)
- BD_Shape_int16_t (Octagonal_Shape_double y)
- BD_Shape_int16_t (Long_Double_Box y)
- BD_Shape_int16_t (BD_Shape_long_double y)
- BD_Shape_int16_t (Octagonal_Shape_long_double y)
- BD_Shape_int16_t (Int8_Box y, Complexity_Class complexity)

- BD_Shape_int16_t (Int16_Box y, Complexity_Class complexity)
- BD_Shape_int16_t (Int32_Box y, Complexity_Class complexity)
- BD_Shape_int16_t (Int64_Box y, Complexity_Class complexity)
- BD_Shape_int16_t (Uint8_Box y, Complexity_Class complexity)
- BD_Shape_int16_t (Uint16_Box y, Complexity_Class complexity)
- BD_Shape_int16_t (Uint32_Box y, Complexity_Class complexity)
- BD_Shape_int16_t (Uint64_Box y, Complexity_Class complexity)
- BD_Shape_int16_t (Z_Box y, Complexity_Class complexity)
- BD_Shape_int16_t (Rational_Box y, Complexity_Class complexity)
- BD_Shape_int16_t (BD_Shape_int8_t y, Complexity_Class complexity)
- BD_Shape_int16_t (BD_Shape_int16_t y, Complexity_Class complexity)
- BD_Shape_int16_t (BD_Shape_int32_t y, Complexity_Class complexity)
- BD_Shape_int16_t (BD_Shape_int64_t y, Complexity_Class complexity)
- BD_Shape_int16_t (BD_Shape_mpz_class y, Complexity_Class complexity)
- BD_Shape_int16_t (BD_Shape_mpq_class y, Complexity_Class complexity)
- BD_Shape_int16_t (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- BD_Shape_int16_t (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- BD_Shape_int16_t (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- BD_Shape_int16_t (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- BD_Shape_int16_t (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- BD_Shape_int16_t (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- BD_Shape_int16_t (C_Polyhedron y, Complexity_Class complexity)
- BD_Shape_int16_t (NNC_Polyhedron y, Complexity_Class complexity)
- BD_Shape_int16_t (Grid y, Complexity_Class complexity)
- BD_Shape_int16_t (Float_Box y, Complexity_Class complexity)
- BD_Shape_int16_t (BD_Shape_float y, Complexity_Class complexity)
- BD_Shape_int16_t (Octagonal_Shape_float y, Complexity_Class complexity)
- BD_Shape_int16_t (Double_Box y, Complexity_Class complexity)
- BD_Shape_int16_t (BD_Shape_double y, Complexity_Class complexity)
- BD_Shape_int16_t (Octagonal_Shape_double y, Complexity_Class complexity)
- BD_Shape_int16_t (Long_Double_Box y, Complexity_Class complexity)
- BD_Shape_int16_t (BD_Shape_long_double y, Complexity_Class complexity)
- BD_Shape_int16_t (Octagonal_Shape_long_double y, Complexity_Class complexity)
- BD_Shape_int16_t (Constraint_System cs)
- BD_Shape_int16_t (Congruence_System cs)
- BD_Shape_int16_t (Generator_System cs)
- native void swap (BD_Shape_int16_t y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()

- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (BD_Shape_int16_t y)
- native boolean strictly_contains (BD_Shape_int16_t y)
- native boolean is_disjoint_from (BD_Shape_int16_t y)
- native boolean equals (BD_Shape_int16_t p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (BD_Shape_int16_t p)
- native void upper_bound_assign (BD_Shape_int16_t p)
- native void difference_assign (BD_Shape_int16_t p)
- native void concatenate_assign (BD_Shape_int16_t p)
- native void time_elapse_assign (BD_Shape_int16_t p)
- native boolean upper_bound_assign_if_exact (BD_Shape_int16_t y)
- native boolean simplify_using_context_assign (BD_Shape_int16_t p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)

- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void BHMZ05_widening_assign (BD_Shape_int16_t y, By_Reference< Integer > tp)
- native void H79_widening_assign (BD_Shape_int16_t y, By_Reference< Integer > tp)
- native void widening_assign (BD_Shape_int16_t y, By_Reference< Integer > tp)
- native void limited_BHMZ05_extrapolation_assign (BD_Shape_int16_t y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_H79_extrapolation_assign (BD_Shape_int16_t y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (BD_Shape_int16_t y, Constraint_System cs, By_Reference< Integer > tp)
- native void CC76_extrapolation_assign (BD_Shape_int16_t arg, By_Reference< Integer > tp)
- native void CC76_narrowing_assign (BD_Shape_int16_t arg)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native int hashCode ()
- native String toString ()

Static Public Member Functions

- static native Pair< BD_Shape_int16_t, Pointset_Powerset_NNC_Polyhedron > linear_partition (BD_Shape_int16_t p, BD_Shape_int16_t q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- BD_Shape_int16_t ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)

- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)

- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.5.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<int16_t>

Definition at line 33 of file BD_Shape_int16_t.java.

11.5.2 Constructor & Destructor Documentation

11.5.2.1 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.2 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t () [inline, private]

Definition at line 45 of file BD_Shape_int16_t.java.

11.5.2.3 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Int8_Box *y*) [inline]

Definition at line 52 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.4 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Int16_Box *y*) [inline]

Definition at line 56 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.5 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Int32_Box *y*) [inline]

Definition at line 60 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.6 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Int64_Box *y*) [inline]

Definition at line 64 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.7 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Uint8_Box *y*) [inline]

Definition at line 68 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.8 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Uint16_Box *y*) [inline]

Definition at line 72 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.9 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Uint32_Box *y*) [inline]

Definition at line 76 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.10 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Uint64_Box *y*) [inline]

Definition at line 80 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.11 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Z_Box *y*) [inline]

Definition at line 84 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.12 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Rational_Box *y*) [inline]

Definition at line 88 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.13 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.14 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.15 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.16 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.17 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.18 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.19 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.20 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.21 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.22 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.23 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.24 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.25 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (C_Polyhedron *y*) [inline]

Definition at line 140 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.26 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.27 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Grid *y*) [inline]

Definition at line 148 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.28 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Float_Box *y*) [inline]

Definition at line 152 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.29 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (BD_Shape_float *y*) [inline]

Definition at line 156 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.30 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.31 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Double_Box *y*) [inline]

Definition at line 164 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.32 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (BD_Shape_double *y*) [inline]

Definition at line 168 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.33 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.34 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Long_Double_Box *y*) [inline]

Definition at line 176 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.35 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.36 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.37 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.38 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.39 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.40 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.41 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.42 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.43 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.44 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.45 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.46 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.47 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.48 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.49 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.50 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.51 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.52 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.53 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.54 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.55 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.56 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.57 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.58 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.59 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.60 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.61 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.62 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.63 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.64 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.65 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.66 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.67 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.68 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.69 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.70 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.71 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Constraint_System *cs*) [inline]

Definition at line 334 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.72 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Congruence_System *cs*) [inline]

Definition at line 338 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.2.73 parma_polyhedra_library::BD_Shape_int16_t::BD_Shape_int16_t (Generator_System *cs*) [inline]

Definition at line 342 of file BD_Shape_int16_t.java.

References build_cpp_object().

11.5.3 Member Function Documentation

11.5.3.1 native void parma_polyhedra_library::BD_Shape_int16_t::add_congruence (Congruence *c*)

11.5.3.2 native void parma_polyhedra_library::BD_Shape_int16_t::add_congruences (Congruence_System *c*)

11.5.3.3 native void parma_polyhedra_library::BD_Shape_int16_t::add_constraint (Constraint *c*)

11.5.3.4 native void parma_polyhedra_library::BD_Shape_int16_t::add_constraints (Constraint_System *c*)

11.5.3.5 native void parma_polyhedra_library::BD_Shape_int16_t::add_space_dimensions_and_embed (long *m*)

11.5.3.6 native void parma_polyhedra_library::BD_Shape_int16_t::add_space_dimensions_and_project (long *m*)

11.5.3.7 native long parma_polyhedra_library::BD_Shape_int16_t::affine_dimension ()

11.5.3.8 native void parma_polyhedra_library::BD_Shape_int16_t::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.5.3.9 native void parma_polyhedra_library::BD_Shape_int16_t::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.5.3.10 native String parma_polyhedra_library::BD_Shape_int16_t::ascii_dump ()

11.5.3.11 native void parma_polyhedra_library::BD_Shape_int16_t::BHMZ05_widening_assign (BD_Shape_int16_t *y*, By_Reference< Integer > *tp*)

11.5.3.12 native void parma_polyhedra_library::BD_Shape_int16_t::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.5.3.13 native void parma_polyhedra_library::BD_Shape_int16_t::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.5.3.14 native boolean parma_polyhedra_library::BD_Shape_int16_t::bounds_from_above (Linear_Expression *expr*)

11.5.3.15 native boolean parma_polyhedra_library::BD_Shape_int16_t::bounds_from_below (Linear_Expression *expr*)

11.5.3.16 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.5.3.17 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.5.3.18 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.5.3.19 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (BD_Shape_long_double *y*) `[private]`

11.5.3.20 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) `[private]`

11.5.3.21 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Long_Double_Box *y*) `[private]`

11.5.3.22 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.5.3.23 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.5.3.24 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.5.3.25 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (BD_Shape_double *y*) [private]

11.5.3.26 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.5.3.27 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Double_Box *y*) [private]

11.5.3.28 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.5.3.29 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.5.3.30 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.5.3.31 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (BD_Shape_float *y*) [private]

11.5.3.32 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.5.3.33 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Float_Box *y*) [private]

11.5.3.34 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.5.3.35 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Grid *y*) [private]

11.5.3.36 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.5.3.37 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (NNC_Polyhedron *y*) [private]

11.5.3.38 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.5.3.39 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (C_Polyhedron *y*) [private]

11.5.3.40 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.5.3.41 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.5.3.42 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.5.3.43 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.5.3.44 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.5.3.45 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.5.3.46 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.5.3.47 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.5.3.48 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.5.3.49 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.5.3.50 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.5.3.51 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.5.3.52 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.5.3.53 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.5.3.54 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.5.3.55 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.5.3.56 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.5.3.57 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.5.3.58 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.5.3.59 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.5.3.60 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.5.3.61 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.5.3.62 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.5.3.63 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.5.3.64 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.5.3.65 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Rational_Box *y*) [private]

11.5.3.66 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.5.3.67 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Z_Box *y*) [private]

11.5.3.68 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.5.3.69 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Uint64_Box *y*) [private]

11.5.3.70 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.5.3.71 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Uint32_Box *y*) [private]

11.5.3.72 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.5.3.73 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Uint16_Box *y*) [private]

11.5.3.74 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.5.3.75 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Uint8_Box *y*) [private]

11.5.3.76 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.5.3.77 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Int64_Box *y*) [private]

11.5.3.78 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.5.3.79 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Int32_Box *y*) [private]

11.5.3.80 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.5.3.81 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Int16_Box *y*) [private]

11.5.3.82 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.5.3.83 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Int8_Box *y*) [private]

11.5.3.84 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.5.3.85 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Generator_System *cs*) [private]

11.5.3.86 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Congruence_System *cs*) [private]

11.5.3.87 native void parma_polyhedra_library::BD_Shape_int16_t::build_cpp_object (Constraint_System *cs*) [private]

Referenced by BD_Shape_int16_t().

11.5.3.88 native void parma_polyhedra_library::BD_Shape_int16_t::CC76_extrapolation_assign (BD_Shape_int16_t *arg*, By_Reference< Integer > *tp*)

11.5.3.89 native void parma_polyhedra_library::BD_Shape_int16_t::CC76_narrowing_assign (BD_Shape_int16_t *arg*)

11.5.3.90 native void parma_polyhedra_library::BD_Shape_int16_t::concatenate_assign (BD_Shape_int16_t *p*)

11.5.3.91 native Congruence_System parma_polyhedra_library::BD_Shape_int16_t::congruences ()

11.5.3.92 native boolean parma_polyhedra_library::BD_Shape_int16_t::constrains (Variable *var*)

11.5.3.93 native Constraint_System parma_polyhedra_library::BD_Shape_int16_t::constraints ()

11.5.3.94 native boolean parma_polyhedra_library::BD_Shape_int16_t::contains (BD_Shape_int16_t *y*)

11.5.3.95 native boolean parma_polyhedra_library::BD_Shape_int16_t::contains_integer_point ()

11.5.3.96 native void parma_polyhedra_library::BD_Shape_int16_t::difference_assign (BD_Shape_int16_t *p*)

11.5.3.97 native void parma_polyhedra_library::BD_Shape_int16_t::drop_some_non_integer_points (Integer *complexity_threshold*)

11.5.3.98 native void parma_polyhedra_library::BD_Shape_int16_t::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.5.3.99 boolean parma_polyhedra_library::BD_Shape_int16_t::equals (Object *y*) `[inline]`

Definition at line 465 of file BD_Shape_int16_t.java.

References equals().

11.5.3.100 native boolean parma_polyhedra_library::BD_Shape_int16_t::equals (BD_Shape_int16_t *p*)

Referenced by equals().

11.5.3.101 native void parma_polyhedra_library::BD_Shape_int16_t::expand_space_dimension (Variable *var*, long *m*)

11.5.3.102 native long parma_polyhedra_library::BD_Shape_int16_t::external_memory_in_bytes ()

11.5.3.103 native void parma_polyhedra_library::BD_Shape_int16_t::finalize () [protected]

11.5.3.104 native void parma_polyhedra_library::BD_Shape_int16_t::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.5.3.105 native void parma_polyhedra_library::BD_Shape_int16_t::free ()

11.5.3.106 native boolean parma_polyhedra_library::BD_Shape_int16_t::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.5.3.107 native void parma_polyhedra_library::BD_Shape_int16_t::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.5.3.108 native void parma_polyhedra_library::BD_Shape_int16_t::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.5.3.109 native void parma_polyhedra_library::BD_Shape_int16_t::generalized_affine_-preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.5.3.110 native void parma_polyhedra_library::BD_Shape_int16_t::generalized_affine_-preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.5.3.111 native void parma_polyhedra_library::BD_Shape_int16_t::H79_widening_assign (BD_Shape_int16_t *y*, By_Reference< Integer > *tp*)

11.5.3.112 native int parma_polyhedra_library::BD_Shape_int16_t::hashCode ()

11.5.3.113 native void parma_polyhedra_library::BD_Shape_int16_t::intersection_assign (BD_Shape_int16_t *p*)

11.5.3.114 native boolean parma_polyhedra_library::BD_Shape_int16_t::is_bounded ()

11.5.3.115 native boolean parma_polyhedra_library::BD_Shape_int16_t::is_discrete ()

11.5.3.116 native boolean parma_polyhedra_library::BD_Shape_int16_t::is_disjoint_from (BD_Shape_int16_t *y*)

11.5.3.117 native boolean parma_polyhedra_library::BD_Shape_int16_t::is_empty ()

11.5.3.118 native boolean parma_polyhedra_library::BD_Shape_int16_t::is_topologically_closed ()

11.5.3.119 native boolean parma_polyhedra_library::BD_Shape_int16_t::is_universe ()

11.5.3.120 native void parma_polyhedra_library::BD_Shape_int16_t::limited_BHMZ05_extrapolation_assign (BD_Shape_int16_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.5.3.121 native void parma_polyhedra_library::BD_Shape_int16_t::limited_CC76_extrapolation_assign (BD_Shape_int16_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.5.3.122 native void parma_polyhedra_library::BD_Shape_int16_t::limited_H79_-extrapolation_assign (BD_Shape_int16_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.5.3.123 static native Pair<BD_Shape_int16_t, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::BD_Shape_int16_t::linear_partition (BD_Shape_int16_t *p*, BD_Shape_int16_t *q*) `[static]`

11.5.3.124 native void parma_polyhedra_library::BD_Shape_int16_t::map_space_dimensions (Partial_Function *pfunc*)

11.5.3.125 native boolean parma_polyhedra_library::BD_Shape_int16_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.5.3.126 native boolean parma_polyhedra_library::BD_Shape_int16_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.5.3.127 native boolean parma_polyhedra_library::BD_Shape_int16_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.5.3.128 native boolean parma_polyhedra_library::BD_Shape_int16_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.5.3.129 native Congruence_System parma_polyhedra_library::BD_Shape_int16_-t::minimized_congruences ()

11.5.3.130 native Constraint_System parma_polyhedra_library::BD_Shape_int16_t::minimized_constraints ()

11.5.3.131 native boolean parma_polyhedra_library::BD_Shape_int16_t::OK ()

11.5.3.132 native void parma_polyhedra_library::BD_Shape_int16_t::refine_with_congruence (Congruence *c*)

11.5.3.133 native void parma_polyhedra_library::BD_Shape_int16_t::refine_with_congruences (Congruence_System *c*)

11.5.3.134 native void parma_polyhedra_library::BD_Shape_int16_t::refine_with_constraint (Constraint *c*)

11.5.3.135 native void parma_polyhedra_library::BD_Shape_int16_t::refine_with_constraints (Constraint_System *c*)

11.5.3.136 native Poly_Con_Relation parma_polyhedra_library::BD_Shape_int16_t::relation_with (Congruence *c*)

11.5.3.137 native Poly_Gen_Relation parma_polyhedra_library::BD_Shape_int16_t::relation_with (Generator *c*)

11.5.3.138 native Poly_Con_Relation parma_polyhedra_library::BD_Shape_int16_t::relation_with (Constraint *c*)

11.5.3.139 native void parma_polyhedra_library::BD_Shape_int16_t::remove_higher_space_dimensions (long *new_dimension*)

11.5.3.140 native void parma_polyhedra_library::BD_Shape_int16_t::remove_space_dimensions (Variables_Set *vars*)

11.5.3.141 native boolean parma_polyhedra_library::BD_Shape_int16_t::simplify_using_context_assign (BD_Shape_int16_t *p*)

11.5.3.142 native long parma_polyhedra_library::BD_Shape_int16_t::space_dimension ()

11.5.3.143 native boolean parma_polyhedra_library::BD_Shape_int16_t::strictly_contains (BD_Shape_int16_t *y*)

11.5.3.144 native void parma_polyhedra_library::BD_Shape_int16_t::swap (BD_Shape_int16_t *y*)

11.5.3.145 native void parma_polyhedra_library::BD_Shape_int16_t::time_elapse_assign (BD_Shape_int16_t *p*)

11.5.3.146 native void parma_polyhedra_library::BD_Shape_int16_t::topological_closure_assign ()

11.5.3.147 native String parma_polyhedra_library::BD_Shape_int16_t::toString ()

11.5.3.148 native long parma_polyhedra_library::BD_Shape_int16_t::total_memory_in_bytes ()

11.5.3.149 native void parma_polyhedra_library::BD_Shape_int16_t::unconstrain_space_dimension (Variable *var*)

11.5.3.150 native void parma_polyhedra_library::BD_Shape_int16_t::unconstrain_space_dimensions (Variables_Set *vars*)

11.5.3.151 native void parma_polyhedra_library::BD_Shape_int16_t::upper_bound_assign (BD_Shape_int16_t *p*)

11.5.3.152 native boolean parma_polyhedra_library::BD_Shape_int16_t::upper_bound_assign_if_exact (BD_Shape_int16_t *y*)

11.5.3.153 native void parma_polyhedra_library::BD_Shape_int16_t::widening_assign (BD_Shape_int16_t *y*, By_Reference< Integer > *tp*)

11.5.3.154 native void parma_polyhedra_library::BD_Shape_int16_t::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

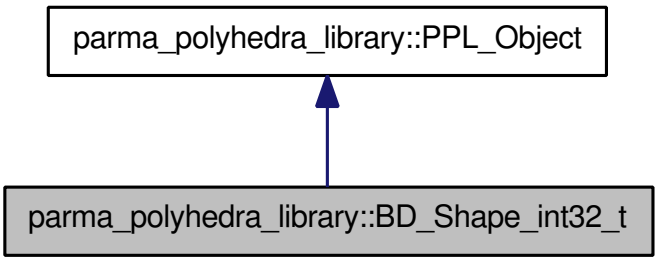
The documentation for this class was generated from the following file:

- BD_Shape_int16_t.java

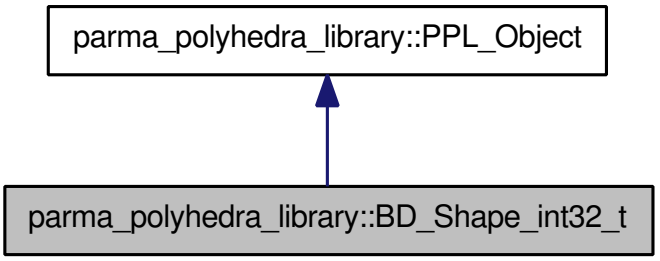
11.6 parma_polyhedra_library::BD_Shape_int32_t Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<int32_t>

Inheritance diagram for parma_polyhedra_library::BD_Shape_int32_t:



Collaboration diagram for parma_polyhedra_library::BD_Shape_int32_t:



Public Member Functions

- BD_Shape_int32_t (long num_dimensions, Degenerate_Element kind)
- BD_Shape_int32_t (Int8_Box y)
- BD_Shape_int32_t (Int16_Box y)
- BD_Shape_int32_t (Int32_Box y)
- BD_Shape_int32_t (Int64_Box y)
- BD_Shape_int32_t (Uint8_Box y)
- BD_Shape_int32_t (Uint16_Box y)
- BD_Shape_int32_t (Uint32_Box y)
- BD_Shape_int32_t (Uint64_Box y)
- BD_Shape_int32_t (Z_Box y)
- BD_Shape_int32_t (Rational_Box y)
- BD_Shape_int32_t (BD_Shape_int8_t y)
- BD_Shape_int32_t (BD_Shape_int16_t y)
- BD_Shape_int32_t (BD_Shape_int32_t y)
- BD_Shape_int32_t (BD_Shape_int64_t y)
- BD_Shape_int32_t (BD_Shape_mpz_class y)
- BD_Shape_int32_t (BD_Shape_mpq_class y)
- BD_Shape_int32_t (Octagonal_Shape_int8_t y)
- BD_Shape_int32_t (Octagonal_Shape_int16_t y)
- BD_Shape_int32_t (Octagonal_Shape_int32_t y)
- BD_Shape_int32_t (Octagonal_Shape_int64_t y)
- BD_Shape_int32_t (Octagonal_Shape_mpz_class y)
- BD_Shape_int32_t (Octagonal_Shape_mpq_class y)
- BD_Shape_int32_t (C_Polyhedron y)
- BD_Shape_int32_t (NNC_Polyhedron y)
- BD_Shape_int32_t (Grid y)
- BD_Shape_int32_t (Float_Box y)
- BD_Shape_int32_t (BD_Shape_float y)
- BD_Shape_int32_t (Octagonal_Shape_float y)
- BD_Shape_int32_t (Double_Box y)
- BD_Shape_int32_t (BD_Shape_double y)
- BD_Shape_int32_t (Octagonal_Shape_double y)
- BD_Shape_int32_t (Long_Double_Box y)
- BD_Shape_int32_t (BD_Shape_long_double y)
- BD_Shape_int32_t (Octagonal_Shape_long_double y)
- BD_Shape_int32_t (Int8_Box y, Complexity_Class complexity)

- BD_Shape_int32_t (Int16_Box y, Complexity_Class complexity)
- BD_Shape_int32_t (Int32_Box y, Complexity_Class complexity)
- BD_Shape_int32_t (Int64_Box y, Complexity_Class complexity)
- BD_Shape_int32_t (Uint8_Box y, Complexity_Class complexity)
- BD_Shape_int32_t (Uint16_Box y, Complexity_Class complexity)
- BD_Shape_int32_t (Uint32_Box y, Complexity_Class complexity)
- BD_Shape_int32_t (Uint64_Box y, Complexity_Class complexity)
- BD_Shape_int32_t (Z_Box y, Complexity_Class complexity)
- BD_Shape_int32_t (Rational_Box y, Complexity_Class complexity)
- BD_Shape_int32_t (BD_Shape_int8_t y, Complexity_Class complexity)
- BD_Shape_int32_t (BD_Shape_int16_t y, Complexity_Class complexity)
- BD_Shape_int32_t (BD_Shape_int32_t y, Complexity_Class complexity)
- BD_Shape_int32_t (BD_Shape_int64_t y, Complexity_Class complexity)
- BD_Shape_int32_t (BD_Shape_mpz_class y, Complexity_Class complexity)
- BD_Shape_int32_t (BD_Shape_mpq_class y, Complexity_Class complexity)
- BD_Shape_int32_t (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- BD_Shape_int32_t (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- BD_Shape_int32_t (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- BD_Shape_int32_t (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- BD_Shape_int32_t (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- BD_Shape_int32_t (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- BD_Shape_int32_t (C_Polyhedron y, Complexity_Class complexity)
- BD_Shape_int32_t (NNC_Polyhedron y, Complexity_Class complexity)
- BD_Shape_int32_t (Grid y, Complexity_Class complexity)
- BD_Shape_int32_t (Float_Box y, Complexity_Class complexity)
- BD_Shape_int32_t (BD_Shape_float y, Complexity_Class complexity)
- BD_Shape_int32_t (Octagonal_Shape_float y, Complexity_Class complexity)
- BD_Shape_int32_t (Double_Box y, Complexity_Class complexity)
- BD_Shape_int32_t (BD_Shape_double y, Complexity_Class complexity)
- BD_Shape_int32_t (Octagonal_Shape_double y, Complexity_Class complexity)
- BD_Shape_int32_t (Long_Double_Box y, Complexity_Class complexity)
- BD_Shape_int32_t (BD_Shape_long_double y, Complexity_Class complexity)
- BD_Shape_int32_t (Octagonal_Shape_long_double y, Complexity_Class complexity)
- BD_Shape_int32_t (Constraint_System cs)
- BD_Shape_int32_t (Congruence_System cs)
- BD_Shape_int32_t (Generator_System cs)
- native void swap (BD_Shape_int32_t y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()

- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (BD_Shape_int32_t y)
- native boolean strictly_contains (BD_Shape_int32_t y)
- native boolean is_disjoint_from (BD_Shape_int32_t y)
- native boolean equals (BD_Shape_int32_t p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (BD_Shape_int32_t p)
- native void upper_bound_assign (BD_Shape_int32_t p)
- native void difference_assign (BD_Shape_int32_t p)
- native void concatenate_assign (BD_Shape_int32_t p)
- native void time_elapse_assign (BD_Shape_int32_t p)
- native boolean upper_bound_assign_if_exact (BD_Shape_int32_t y)
- native boolean simplify_using_context_assign (BD_Shape_int32_t p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)

- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void BHMZ05_widening_assign (BD_Shape_int32_t y, By_Reference< Integer > tp)
- native void H79_widening_assign (BD_Shape_int32_t y, By_Reference< Integer > tp)
- native void widening_assign (BD_Shape_int32_t y, By_Reference< Integer > tp)
- native void limited_BHMZ05_extrapolation_assign (BD_Shape_int32_t y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_H79_extrapolation_assign (BD_Shape_int32_t y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (BD_Shape_int32_t y, Constraint_System cs, By_Reference< Integer > tp)
- native void CC76_extrapolation_assign (BD_Shape_int32_t arg, By_Reference< Integer > tp)
- native void CC76_narrowing_assign (BD_Shape_int32_t arg)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native int hashCode ()
- native String toString ()

Static Public Member Functions

- static native Pair< BD_Shape_int32_t, Pointset_Powerset_NNC_Polyhedron > linear_partition (BD_Shape_int32_t p, BD_Shape_int32_t q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- BD_Shape_int32_t ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)

- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)

- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.6.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<int32_t>

Definition at line 33 of file BD_Shape_int32_t.java.

11.6.2 Constructor & Destructor Documentation

11.6.2.1 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.2 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t () [inline, private]

Definition at line 45 of file BD_Shape_int32_t.java.

11.6.2.3 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Int8_Box *y*) [inline]

Definition at line 52 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.4 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Int16_Box *y*) [inline]

Definition at line 56 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.5 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Int32_Box *y*) [inline]

Definition at line 60 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.6 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Int64_Box *y*) [inline]

Definition at line 64 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.7 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Uint8_Box *y*) [inline]

Definition at line 68 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.8 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Uint16_Box *y*) [inline]

Definition at line 72 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.9 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Uint32_Box *y*) [inline]

Definition at line 76 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.10 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Uint64_Box *y*) [inline]

Definition at line 80 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.11 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Z_Box *y*) [inline]

Definition at line 84 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.12 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Rational_Box *y*) [inline]

Definition at line 88 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.13 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.14 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.15 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.16 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.17 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.18 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.19 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.20 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.21 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.22 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.23 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.24 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.25 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (C_Polyhedron *y*) [inline]

Definition at line 140 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.26 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.27 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Grid *y*) [inline]

Definition at line 148 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.28 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Float_Box *y*) [inline]

Definition at line 152 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.29 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (BD_Shape_float *y*) [inline]

Definition at line 156 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.30 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.31 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Double_Box *y*) [inline]

Definition at line 164 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.32 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (BD_Shape_double *y*) [inline]

Definition at line 168 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.33 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.34 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Long_Double_Box *y*) [inline]

Definition at line 176 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.35 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.36 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.37 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.38 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.39 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.40 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.41 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.42 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.43 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.44 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.45 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.46 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.47 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.48 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.49 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.50 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.51 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.52 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.53 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.54 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.55 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.56 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.57 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.58 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.59 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.60 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.61 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.62 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.63 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.64 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.65 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.66 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.67 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.68 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.69 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.70 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.71 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Constraint_System *cs*) [inline]

Definition at line 334 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.72 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Congruence_System *cs*) [inline]

Definition at line 338 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.2.73 parma_polyhedra_library::BD_Shape_int32_t::BD_Shape_int32_t (Generator_System *cs*) [inline]

Definition at line 342 of file BD_Shape_int32_t.java.

References build_cpp_object().

11.6.3 Member Function Documentation

11.6.3.1 native void parma_polyhedra_library::BD_Shape_int32_t::add_congruence (Congruence *c*)

11.6.3.2 native void parma_polyhedra_library::BD_Shape_int32_t::add_congruences (Congruence_System *c*)

11.6.3.3 native void parma_polyhedra_library::BD_Shape_int32_t::add_constraint (Constraint *c*)

11.6.3.4 native void parma_polyhedra_library::BD_Shape_int32_t::add_constraints (Constraint_System *c*)

11.6.3.5 native void parma_polyhedra_library::BD_Shape_int32_t::add_space_dimensions_and_embed (long *m*)

11.6.3.6 native void parma_polyhedra_library::BD_Shape_int32_t::add_space_dimensions_and_project (long *m*)

11.6.3.7 native long parma_polyhedra_library::BD_Shape_int32_t::affine_dimension ()

11.6.3.8 native void parma_polyhedra_library::BD_Shape_int32_t::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.6.3.9 native void parma_polyhedra_library::BD_Shape_int32_t::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.6.3.10 native String parma_polyhedra_library::BD_Shape_int32_t::ascii_dump ()

11.6.3.11 native void parma_polyhedra_library::BD_Shape_int32_t::BHMZ05_widening_assign (BD_Shape_int32_t *y*, By_Reference< Integer > *tp*)

11.6.3.12 native void parma_polyhedra_library::BD_Shape_int32_t::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.6.3.13 native void parma_polyhedra_library::BD_Shape_int32_t::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.6.3.14 native boolean parma_polyhedra_library::BD_Shape_int32_t::bounds_from_above (Linear_Expression *expr*)

11.6.3.15 native boolean parma_polyhedra_library::BD_Shape_int32_t::bounds_from_below (Linear_Expression *expr*)

11.6.3.16 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.6.3.17 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.6.3.18 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.6.3.19 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (BD_Shape_long_double *y*) `[private]`

11.6.3.20 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) `[private]`

11.6.3.21 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Long_Double_Box *y*) `[private]`

11.6.3.22 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.6.3.23 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.6.3.24 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.6.3.25 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (BD_Shape_double *y*) [private]

11.6.3.26 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.6.3.27 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Double_Box *y*) [private]

11.6.3.28 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.6.3.29 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.6.3.30 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.6.3.31 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (BD_Shape_float *y*) [private]

11.6.3.32 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.6.3.33 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Float_Box *y*) [private]

11.6.3.34 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.6.3.35 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Grid *y*) [private]

11.6.3.36 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.6.3.37 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (NNC_Polyhedron *y*) [private]

11.6.3.38 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.6.3.39 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (C_Polyhedron *y*) [private]

11.6.3.40 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.6.3.41 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.6.3.42 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.6.3.43 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.6.3.44 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.6.3.45 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.6.3.46 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.6.3.47 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.6.3.48 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.6.3.49 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.6.3.50 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.6.3.51 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.6.3.52 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.6.3.53 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.6.3.54 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.6.3.55 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.6.3.56 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.6.3.57 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.6.3.58 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.6.3.59 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.6.3.60 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.6.3.61 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.6.3.62 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.6.3.63 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.6.3.64 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.6.3.65 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Rational_Box *y*) [private]

11.6.3.66 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.6.3.67 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Z_Box *y*) [private]

11.6.3.68 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.6.3.69 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Uint64_Box *y*) [private]

11.6.3.70 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.6.3.71 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Uint32_Box *y*) [private]

11.6.3.72 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.6.3.73 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Uint16_Box *y*) [private]

11.6.3.74 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.6.3.75 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Uint8_Box *y*) [private]

11.6.3.76 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.6.3.77 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Int64_Box *y*) [private]

11.6.3.78 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.6.3.79 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Int32_Box *y*) [private]

11.6.3.80 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.6.3.81 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Int16_Box *y*) [private]

11.6.3.82 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.6.3.83 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Int8_Box *y*) [private]

11.6.3.84 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.6.3.85 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Generator_System *cs*) [private]

11.6.3.86 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Congruence_System *cs*) [private]

11.6.3.87 native void parma_polyhedra_library::BD_Shape_int32_t::build_cpp_object (Constraint_System *cs*) [private]

Referenced by BD_Shape_int32_t().

11.6.3.88 native void parma_polyhedra_library::BD_Shape_int32_t::CC76_extrapolation_assign (BD_Shape_int32_t *arg*, By_Reference< Integer > *tp*)

11.6.3.89 native void parma_polyhedra_library::BD_Shape_int32_t::CC76_narrowing_assign (BD_Shape_int32_t *arg*)

11.6.3.90 native void parma_polyhedra_library::BD_Shape_int32_t::concatenate_assign (BD_Shape_int32_t *p*)

11.6.3.91 native Congruence_System parma_polyhedra_library::BD_Shape_int32_t::congruences ()

11.6.3.92 native boolean parma_polyhedra_library::BD_Shape_int32_t::constrains (Variable *var*)

11.6.3.93 native Constraint_System parma_polyhedra_library::BD_Shape_int32_t::constraints ()

11.6.3.94 native boolean parma_polyhedra_library::BD_Shape_int32_t::contains (BD_Shape_int32_t *y*)

11.6.3.95 native boolean parma_polyhedra_library::BD_Shape_int32_t::contains_integer_point ()

11.6.3.96 native void parma_polyhedra_library::BD_Shape_int32_t::difference_assign (BD_Shape_int32_t *p*)

11.6.3.97 native void parma_polyhedra_library::BD_Shape_int32_t::drop_some_non_integer_points (Integer *complexity_threshold*)

11.6.3.98 native void parma_polyhedra_library::BD_Shape_int32_t::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.6.3.99 boolean parma_polyhedra_library::BD_Shape_int32_t::equals (Object *y*) `[inline]`

Definition at line 465 of file BD_Shape_int32_t.java.

References equals().

11.6.3.100 native boolean parma_polyhedra_library::BD_Shape_int32_t::equals (BD_Shape_int32_t *p*)

Referenced by equals().

11.6.3.101 native void parma_polyhedra_library::BD_Shape_int32_t::expand_space_dimension (Variable *var*, long *m*)

11.6.3.102 native long parma_polyhedra_library::BD_Shape_int32_t::external_memory_in_bytes ()

11.6.3.103 native void parma_polyhedra_library::BD_Shape_int32_t::finalize () [protected]

11.6.3.104 native void parma_polyhedra_library::BD_Shape_int32_t::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.6.3.105 native void parma_polyhedra_library::BD_Shape_int32_t::free ()

11.6.3.106 native boolean parma_polyhedra_library::BD_Shape_int32_t::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.6.3.107 native void parma_polyhedra_library::BD_Shape_int32_t::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.6.3.108 native void parma_polyhedra_library::BD_Shape_int32_t::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.6.3.109 native void parma_polyhedra_library::BD_Shape_int32_t::generalized_affine_-preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.6.3.110 native void parma_polyhedra_library::BD_Shape_int32_t::generalized_affine_-preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.6.3.111 native void parma_polyhedra_library::BD_Shape_int32_t::H79_widening_assign (BD_Shape_int32_t *y*, By_Reference< Integer > *tp*)

11.6.3.112 native int parma_polyhedra_library::BD_Shape_int32_t::hashCode ()

11.6.3.113 native void parma_polyhedra_library::BD_Shape_int32_t::intersection_assign (BD_Shape_int32_t *p*)

11.6.3.114 native boolean parma_polyhedra_library::BD_Shape_int32_t::is_bounded ()

11.6.3.115 native boolean parma_polyhedra_library::BD_Shape_int32_t::is_discrete ()

11.6.3.116 native boolean parma_polyhedra_library::BD_Shape_int32_t::is_disjoint_from (BD_Shape_int32_t *y*)

11.6.3.117 native boolean parma_polyhedra_library::BD_Shape_int32_t::is_empty ()

11.6.3.118 native boolean parma_polyhedra_library::BD_Shape_int32_t::is_topologically_closed ()

11.6.3.119 native boolean parma_polyhedra_library::BD_Shape_int32_t::is_universe ()

11.6.3.120 native void parma_polyhedra_library::BD_Shape_int32_t::limited_BHMZ05_extrapolation_assign (BD_Shape_int32_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.6.3.121 native void parma_polyhedra_library::BD_Shape_int32_t::limited_CC76_extrapolation_assign (BD_Shape_int32_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.6.3.122 native void parma_polyhedra_library::BD_Shape_int32_t::limited_H79_-extrapolation_assign (BD_Shape_int32_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.6.3.123 static native Pair<BD_Shape_int32_t, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::BD_Shape_int32_t::linear_partition (BD_Shape_int32_t *p*, BD_Shape_int32_t *q*) `[static]`

11.6.3.124 native void parma_polyhedra_library::BD_Shape_int32_t::map_space_dimensions (Partial_Function *pfunc*)

11.6.3.125 native boolean parma_polyhedra_library::BD_Shape_int32_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.6.3.126 native boolean parma_polyhedra_library::BD_Shape_int32_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.6.3.127 native boolean parma_polyhedra_library::BD_Shape_int32_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.6.3.128 native boolean parma_polyhedra_library::BD_Shape_int32_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.6.3.129 native Congruence_System parma_polyhedra_library::BD_Shape_int32_-t::minimized_congruences ()

11.6.3.130 native Constraint_System parma_polyhedra_library::BD_Shape_int32_t::minimized_constraints ()

11.6.3.131 native boolean parma_polyhedra_library::BD_Shape_int32_t::OK ()

11.6.3.132 native void parma_polyhedra_library::BD_Shape_int32_t::refine_with_congruence (Congruence *c*)

11.6.3.133 native void parma_polyhedra_library::BD_Shape_int32_t::refine_with_congruences (Congruence_System *c*)

11.6.3.134 native void parma_polyhedra_library::BD_Shape_int32_t::refine_with_constraint (Constraint *c*)

11.6.3.135 native void parma_polyhedra_library::BD_Shape_int32_t::refine_with_constraints (Constraint_System *c*)

11.6.3.136 native Poly_Con_Relation parma_polyhedra_library::BD_Shape_int32_t::relation_with (Congruence *c*)

11.6.3.137 native Poly_Gen_Relation parma_polyhedra_library::BD_Shape_int32_t::relation_with (Generator *c*)

11.6.3.138 native Poly_Con_Relation parma_polyhedra_library::BD_Shape_int32_t::relation_with (Constraint *c*)

11.6.3.139 native void parma_polyhedra_library::BD_Shape_int32_t::remove_higher_space_dimensions (long *new_dimension*)

11.6.3.140 native void parma_polyhedra_library::BD_Shape_int32_t::remove_space_dimensions (Variables_Set *vars*)

11.6.3.141 native boolean parma_polyhedra_library::BD_Shape_int32_t::simplify_using_context_assign (BD_Shape_int32_t *p*)

11.6.3.142 native long parma_polyhedra_library::BD_Shape_int32_t::space_dimension ()

11.6.3.143 native boolean parma_polyhedra_library::BD_Shape_int32_t::strictly_contains (BD_Shape_int32_t *y*)

11.6.3.144 native void parma_polyhedra_library::BD_Shape_int32_t::swap (BD_Shape_int32_t *y*)

11.6.3.145 native void parma_polyhedra_library::BD_Shape_int32_t::time_elapse_assign (BD_Shape_int32_t *p*)

11.6.3.146 native void parma_polyhedra_library::BD_Shape_int32_t::topological_closure_assign ()

11.6.3.147 native String parma_polyhedra_library::BD_Shape_int32_t::toString ()

11.6.3.148 native long parma_polyhedra_library::BD_Shape_int32_t::total_memory_in_bytes ()

11.6.3.149 native void parma_polyhedra_library::BD_Shape_int32_t::unconstrain_space_dimension (Variable *var*)

11.6.3.150 native void parma_polyhedra_library::BD_Shape_int32_t::unconstrain_space_dimensions (Variables_Set *vars*)

11.6.3.151 native void parma_polyhedra_library::BD_Shape_int32_t::upper_bound_assign (BD_Shape_int32_t *p*)

11.6.3.152 native boolean parma_polyhedra_library::BD_Shape_int32_t::upper_bound_assign_if_exact (BD_Shape_int32_t *y*)

11.6.3.153 native void parma_polyhedra_library::BD_Shape_int32_t::widening_assign (BD_Shape_int32_t *y*, By_Reference< Integer > *tp*)

11.6.3.154 native void parma_polyhedra_library::BD_Shape_int32_t::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

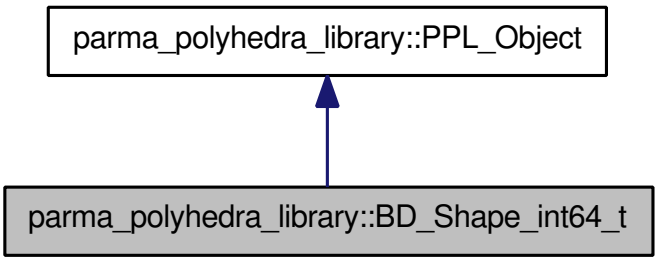
The documentation for this class was generated from the following file:

- BD_Shape_int32_t.java

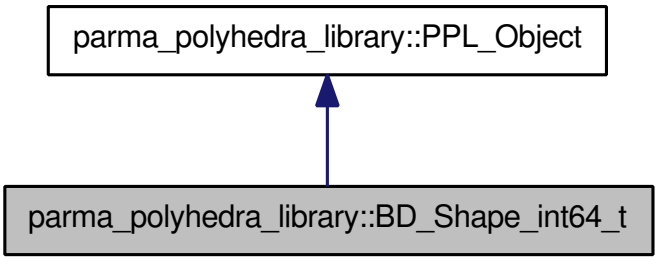
11.7 parma_polyhedra_library::BD_Shape_int64_t Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<int64_t>

Inheritance diagram for parma_polyhedra_library::BD_Shape_int64_t:



Collaboration diagram for parma_polyhedra_library::BD_Shape_int64_t:



Public Member Functions

- BD_Shape_int64_t (long num_dimensions, Degenerate_Element kind)
- BD_Shape_int64_t (Int8_Box y)
- BD_Shape_int64_t (Int16_Box y)
- BD_Shape_int64_t (Int32_Box y)
- BD_Shape_int64_t (Int64_Box y)
- BD_Shape_int64_t (Uint8_Box y)
- BD_Shape_int64_t (Uint16_Box y)
- BD_Shape_int64_t (Uint32_Box y)
- BD_Shape_int64_t (Uint64_Box y)
- BD_Shape_int64_t (Z_Box y)
- BD_Shape_int64_t (Rational_Box y)
- BD_Shape_int64_t (BD_Shape_int8_t y)
- BD_Shape_int64_t (BD_Shape_int16_t y)
- BD_Shape_int64_t (BD_Shape_int32_t y)
- BD_Shape_int64_t (BD_Shape_int64_t y)
- BD_Shape_int64_t (BD_Shape_mpz_class y)
- BD_Shape_int64_t (BD_Shape_mpq_class y)
- BD_Shape_int64_t (Octagonal_Shape_int8_t y)
- BD_Shape_int64_t (Octagonal_Shape_int16_t y)
- BD_Shape_int64_t (Octagonal_Shape_int32_t y)
- BD_Shape_int64_t (Octagonal_Shape_int64_t y)
- BD_Shape_int64_t (Octagonal_Shape_mpz_class y)
- BD_Shape_int64_t (Octagonal_Shape_mpq_class y)
- BD_Shape_int64_t (C_Polyhedron y)
- BD_Shape_int64_t (NNC_Polyhedron y)
- BD_Shape_int64_t (Grid y)
- BD_Shape_int64_t (Float_Box y)
- BD_Shape_int64_t (BD_Shape_float y)
- BD_Shape_int64_t (Octagonal_Shape_float y)
- BD_Shape_int64_t (Double_Box y)
- BD_Shape_int64_t (BD_Shape_double y)
- BD_Shape_int64_t (Octagonal_Shape_double y)
- BD_Shape_int64_t (Long_Double_Box y)
- BD_Shape_int64_t (BD_Shape_long_double y)
- BD_Shape_int64_t (Octagonal_Shape_long_double y)
- BD_Shape_int64_t (Int8_Box y, Complexity_Class complexity)

- BD_Shape_int64_t (Int16_Box y, Complexity_Class complexity)
- BD_Shape_int64_t (Int32_Box y, Complexity_Class complexity)
- BD_Shape_int64_t (Int64_Box y, Complexity_Class complexity)
- BD_Shape_int64_t (Uint8_Box y, Complexity_Class complexity)
- BD_Shape_int64_t (Uint16_Box y, Complexity_Class complexity)
- BD_Shape_int64_t (Uint32_Box y, Complexity_Class complexity)
- BD_Shape_int64_t (Uint64_Box y, Complexity_Class complexity)
- BD_Shape_int64_t (Z_Box y, Complexity_Class complexity)
- BD_Shape_int64_t (Rational_Box y, Complexity_Class complexity)
- BD_Shape_int64_t (BD_Shape_int8_t y, Complexity_Class complexity)
- BD_Shape_int64_t (BD_Shape_int16_t y, Complexity_Class complexity)
- BD_Shape_int64_t (BD_Shape_int32_t y, Complexity_Class complexity)
- BD_Shape_int64_t (BD_Shape_int64_t y, Complexity_Class complexity)
- BD_Shape_int64_t (BD_Shape_mpz_class y, Complexity_Class complexity)
- BD_Shape_int64_t (BD_Shape_mpq_class y, Complexity_Class complexity)
- BD_Shape_int64_t (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- BD_Shape_int64_t (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- BD_Shape_int64_t (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- BD_Shape_int64_t (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- BD_Shape_int64_t (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- BD_Shape_int64_t (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- BD_Shape_int64_t (C_Polyhedron y, Complexity_Class complexity)
- BD_Shape_int64_t (NNC_Polyhedron y, Complexity_Class complexity)
- BD_Shape_int64_t (Grid y, Complexity_Class complexity)
- BD_Shape_int64_t (Float_Box y, Complexity_Class complexity)
- BD_Shape_int64_t (BD_Shape_float y, Complexity_Class complexity)
- BD_Shape_int64_t (Octagonal_Shape_float y, Complexity_Class complexity)
- BD_Shape_int64_t (Double_Box y, Complexity_Class complexity)
- BD_Shape_int64_t (BD_Shape_double y, Complexity_Class complexity)
- BD_Shape_int64_t (Octagonal_Shape_double y, Complexity_Class complexity)
- BD_Shape_int64_t (Long_Double_Box y, Complexity_Class complexity)
- BD_Shape_int64_t (BD_Shape_long_double y, Complexity_Class complexity)
- BD_Shape_int64_t (Octagonal_Shape_long_double y, Complexity_Class complexity)
- BD_Shape_int64_t (Constraint_System cs)
- BD_Shape_int64_t (Congruence_System cs)
- BD_Shape_int64_t (Generator_System cs)
- native void swap (BD_Shape_int64_t y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()

- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (BD_Shape_int64_t y)
- native boolean strictly_contains (BD_Shape_int64_t y)
- native boolean is_disjoint_from (BD_Shape_int64_t y)
- native boolean equals (BD_Shape_int64_t p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (BD_Shape_int64_t p)
- native void upper_bound_assign (BD_Shape_int64_t p)
- native void difference_assign (BD_Shape_int64_t p)
- native void concatenate_assign (BD_Shape_int64_t p)
- native void time_elapse_assign (BD_Shape_int64_t p)
- native boolean upper_bound_assign_if_exact (BD_Shape_int64_t y)
- native boolean simplify_using_context_assign (BD_Shape_int64_t p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)

- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void BHMZ05_widening_assign (BD_Shape_int64_t y, By_Reference< Integer > tp)
- native void H79_widening_assign (BD_Shape_int64_t y, By_Reference< Integer > tp)
- native void widening_assign (BD_Shape_int64_t y, By_Reference< Integer > tp)
- native void limited_BHMZ05_extrapolation_assign (BD_Shape_int64_t y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_H79_extrapolation_assign (BD_Shape_int64_t y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (BD_Shape_int64_t y, Constraint_System cs, By_Reference< Integer > tp)
- native void CC76_extrapolation_assign (BD_Shape_int64_t arg, By_Reference< Integer > tp)
- native void CC76_narrowing_assign (BD_Shape_int64_t arg)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native int hashCode ()
- native String toString ()

Static Public Member Functions

- static native Pair< BD_Shape_int64_t, Pointset_Powerset_NNC_Polyhedron > linear_partition (BD_Shape_int64_t p, BD_Shape_int64_t q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- BD_Shape_int64_t ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)

- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)

- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.7.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<int64_t>

Definition at line 33 of file BD_Shape_int64_t.java.

11.7.2 Constructor & Destructor Documentation

11.7.2.1 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.2 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t () [inline, private]

Definition at line 45 of file BD_Shape_int64_t.java.

11.7.2.3 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Int8_Box *y*) [inline]

Definition at line 52 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.4 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Int16_Box *y*) [inline]

Definition at line 56 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.5 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Int32_Box *y*) [inline]

Definition at line 60 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.6 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Int64_Box *y*) [inline]

Definition at line 64 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.7 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Uint8_Box *y*) [inline]

Definition at line 68 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.8 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Uint16_Box *y*) [inline]

Definition at line 72 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.9 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Uint32_Box *y*) [inline]

Definition at line 76 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.10 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Uint64_Box *y*) [inline]

Definition at line 80 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.11 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Z_Box *y*) [inline]

Definition at line 84 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.12 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Rational_Box *y*) [inline]

Definition at line 88 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.13 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.14 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.15 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.16 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.17 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.18 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.19 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.20 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.21 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.22 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.23 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.24 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.25 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (C_Polyhedron *y*) [inline]

Definition at line 140 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.26 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.27 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Grid *y*) [inline]

Definition at line 148 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.28 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Float_Box *y*) [inline]

Definition at line 152 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.29 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (BD_Shape_float *y*) [inline]

Definition at line 156 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.30 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.31 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Double_Box *y*) [inline]

Definition at line 164 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.32 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (BD_Shape_double *y*) [inline]

Definition at line 168 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.33 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.34 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Long_Double_Box *y*) [inline]

Definition at line 176 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.35 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.36 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.37 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.38 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.39 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.40 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.41 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.42 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.43 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.44 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.45 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.46 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.47 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.48 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.49 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.50 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.51 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.52 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.53 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.54 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.55 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.56 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.57 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.58 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.59 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.60 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.61 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.62 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.63 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.64 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.65 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.66 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.67 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.68 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.69 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.70 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.71 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Constraint_System *cs*) [inline]

Definition at line 334 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.72 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Congruence_System *cs*) [inline]

Definition at line 338 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.2.73 parma_polyhedra_library::BD_Shape_int64_t::BD_Shape_int64_t (Generator_System *cs*) [inline]

Definition at line 342 of file BD_Shape_int64_t.java.

References build_cpp_object().

11.7.3 Member Function Documentation

11.7.3.1 native void parma_polyhedra_library::BD_Shape_int64_t::add_congruence (Congruence *c*)

11.7.3.2 native void parma_polyhedra_library::BD_Shape_int64_t::add_congruences (Congruence_System *c*)

11.7.3.3 native void parma_polyhedra_library::BD_Shape_int64_t::add_constraint (Constraint *c*)

11.7.3.4 native void parma_polyhedra_library::BD_Shape_int64_t::add_constraints (Constraint_System *c*)

11.7.3.5 native void parma_polyhedra_library::BD_Shape_int64_t::add_space_dimensions_and_embed (long *m*)

11.7.3.6 native void parma_polyhedra_library::BD_Shape_int64_t::add_space_dimensions_and_project (long *m*)

11.7.3.7 native long parma_polyhedra_library::BD_Shape_int64_t::affine_dimension ()

11.7.3.8 native void parma_polyhedra_library::BD_Shape_int64_t::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.7.3.9 native void parma_polyhedra_library::BD_Shape_int64_t::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.7.3.10 native String parma_polyhedra_library::BD_Shape_int64_t::ascii_dump ()

11.7.3.11 native void parma_polyhedra_library::BD_Shape_int64_t::BHMZ05_widening_assign (BD_Shape_int64_t *y*, By_Reference< Integer > *tp*)

11.7.3.12 native void parma_polyhedra_library::BD_Shape_int64_t::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.7.3.13 native void parma_polyhedra_library::BD_Shape_int64_t::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.7.3.14 native boolean parma_polyhedra_library::BD_Shape_int64_t::bounds_from_above (Linear_Expression *expr*)

11.7.3.15 native boolean parma_polyhedra_library::BD_Shape_int64_t::bounds_from_below (Linear_Expression *expr*)

11.7.3.16 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.7.3.17 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.7.3.18 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.7.3.19 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (BD_Shape_long_double *y*) `[private]`

11.7.3.20 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) `[private]`

11.7.3.21 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Long_Double_Box *y*) `[private]`

11.7.3.22 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.7.3.23 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.7.3.24 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.7.3.25 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (BD_Shape_double *y*) [private]

11.7.3.26 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.7.3.27 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Double_Box *y*) [private]

11.7.3.28 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.7.3.29 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.7.3.30 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.7.3.31 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (BD_Shape_float *y*) [private]

11.7.3.32 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.7.3.33 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Float_Box *y*) [private]

11.7.3.34 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.7.3.35 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Grid *y*) [private]

11.7.3.36 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.7.3.37 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (NNC_Polyhedron *y*) [private]

11.7.3.38 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.7.3.39 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (C_Polyhedron *y*) [private]

11.7.3.40 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.7.3.41 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.7.3.42 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.7.3.43 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.7.3.44 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.7.3.45 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.7.3.46 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.7.3.47 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.7.3.48 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.7.3.49 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.7.3.50 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.7.3.51 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.7.3.52 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.7.3.53 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.7.3.54 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.7.3.55 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.7.3.56 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.7.3.57 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.7.3.58 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.7.3.59 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.7.3.60 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.7.3.61 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.7.3.62 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.7.3.63 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.7.3.64 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.7.3.65 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Rational_Box *y*) [private]

11.7.3.66 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.7.3.67 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Z_Box *y*) [private]

11.7.3.68 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.7.3.69 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Uint64_Box *y*) [private]

11.7.3.70 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.7.3.71 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Uint32_Box *y*) [private]

11.7.3.72 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.7.3.73 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Uint16_Box *y*) [private]

11.7.3.74 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.7.3.75 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Uint8_Box *y*) [private]

11.7.3.76 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.7.3.77 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Int64_Box *y*) [private]

11.7.3.78 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.7.3.79 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Int32_Box *y*) [private]

11.7.3.80 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.7.3.81 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Int16_Box *y*) [private]

11.7.3.82 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.7.3.83 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Int8_Box *y*) [private]

11.7.3.84 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.7.3.85 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Generator_System *cs*) [private]

11.7.3.86 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Congruence_System *cs*) [private]

11.7.3.87 native void parma_polyhedra_library::BD_Shape_int64_t::build_cpp_object (Constraint_System *cs*) [private]

Referenced by BD_Shape_int64_t().

11.7.3.88 native void parma_polyhedra_library::BD_Shape_int64_t::CC76_extrapolation_assign (BD_Shape_int64_t *arg*, By_Reference< Integer > *tp*)

11.7.3.89 native void parma_polyhedra_library::BD_Shape_int64_t::CC76_narrowing_assign (BD_Shape_int64_t *arg*)

11.7.3.90 native void parma_polyhedra_library::BD_Shape_int64_t::concatenate_assign (BD_Shape_int64_t *p*)

11.7.3.91 native Congruence_System parma_polyhedra_library::BD_Shape_int64_t::congruences ()

11.7.3.92 native boolean parma_polyhedra_library::BD_Shape_int64_t::constrains (Variable *var*)

11.7.3.93 native Constraint_System parma_polyhedra_library::BD_Shape_int64_t::constraints ()

11.7.3.94 native boolean parma_polyhedra_library::BD_Shape_int64_t::contains (BD_Shape_int64_t *y*)

11.7.3.95 native boolean parma_polyhedra_library::BD_Shape_int64_t::contains_integer_point ()

11.7.3.96 native void parma_polyhedra_library::BD_Shape_int64_t::difference_assign (BD_Shape_int64_t *p*)

11.7.3.97 native void parma_polyhedra_library::BD_Shape_int64_t::drop_some_non_integer_points (Integer *complexity_threshold*)

11.7.3.98 native void parma_polyhedra_library::BD_Shape_int64_t::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.7.3.99 boolean parma_polyhedra_library::BD_Shape_int64_t::equals (Object *y*) `[inline]`

Definition at line 465 of file BD_Shape_int64_t.java.

References equals().

11.7.3.100 native boolean parma_polyhedra_library::BD_Shape_int64_t::equals (BD_Shape_int64_t *p*)

Referenced by equals().

11.7.3.101 native void parma_polyhedra_library::BD_Shape_int64_t::expand_space_dimension (Variable *var*, long *m*)

11.7.3.102 native long parma_polyhedra_library::BD_Shape_int64_t::external_memory_in_bytes ()

11.7.3.103 native void parma_polyhedra_library::BD_Shape_int64_t::finalize () [protected]

11.7.3.104 native void parma_polyhedra_library::BD_Shape_int64_t::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.7.3.105 native void parma_polyhedra_library::BD_Shape_int64_t::free ()

11.7.3.106 native boolean parma_polyhedra_library::BD_Shape_int64_t::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.7.3.107 native void parma_polyhedra_library::BD_Shape_int64_t::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.7.3.108 native void parma_polyhedra_library::BD_Shape_int64_t::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.7.3.109 native void parma_polyhedra_library::BD_Shape_int64_t::generalized_affine_-preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.7.3.110 native void parma_polyhedra_library::BD_Shape_int64_t::generalized_affine_-preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.7.3.111 native void parma_polyhedra_library::BD_Shape_int64_t::H79_widening_assign (BD_Shape_int64_t *y*, By_Reference< Integer > *tp*)

11.7.3.112 native int parma_polyhedra_library::BD_Shape_int64_t::hashCode ()

11.7.3.113 native void parma_polyhedra_library::BD_Shape_int64_t::intersection_assign (BD_Shape_int64_t *p*)

11.7.3.114 native boolean parma_polyhedra_library::BD_Shape_int64_t::is_bounded ()

11.7.3.115 native boolean parma_polyhedra_library::BD_Shape_int64_t::is_discrete ()

11.7.3.116 native boolean parma_polyhedra_library::BD_Shape_int64_t::is_disjoint_from (BD_Shape_int64_t *y*)

11.7.3.117 native boolean parma_polyhedra_library::BD_Shape_int64_t::is_empty ()

11.7.3.118 native boolean parma_polyhedra_library::BD_Shape_int64_t::is_topologically_closed ()

11.7.3.119 native boolean parma_polyhedra_library::BD_Shape_int64_t::is_universe ()

11.7.3.120 native void parma_polyhedra_library::BD_Shape_int64_t::limited_BHMZ05_extrapolation_assign (BD_Shape_int64_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.7.3.121 native void parma_polyhedra_library::BD_Shape_int64_t::limited_CC76_extrapolation_assign (BD_Shape_int64_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.7.3.122 native void parma_polyhedra_library::BD_Shape_int64_t::limited_H79_-extrapolation_assign (BD_Shape_int64_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.7.3.123 static native Pair<BD_Shape_int64_t, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::BD_Shape_int64_t::linear_partition (BD_Shape_int64_t *p*, BD_Shape_int64_t *q*) `[static]`

11.7.3.124 native void parma_polyhedra_library::BD_Shape_int64_t::map_space_dimensions (Partial_Function *pfunc*)

11.7.3.125 native boolean parma_polyhedra_library::BD_Shape_int64_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.7.3.126 native boolean parma_polyhedra_library::BD_Shape_int64_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.7.3.127 native boolean parma_polyhedra_library::BD_Shape_int64_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.7.3.128 native boolean parma_polyhedra_library::BD_Shape_int64_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.7.3.129 native Congruence_System parma_polyhedra_library::BD_Shape_int64_-t::minimized_congruences ()

11.7.3.130 native Constraint_System parma_polyhedra_library::BD_Shape_int64_t::minimized_constraints ()

11.7.3.131 native boolean parma_polyhedra_library::BD_Shape_int64_t::OK ()

11.7.3.132 native void parma_polyhedra_library::BD_Shape_int64_t::refine_with_congruence (Congruence *c*)

11.7.3.133 native void parma_polyhedra_library::BD_Shape_int64_t::refine_with_congruences (Congruence_System *c*)

11.7.3.134 native void parma_polyhedra_library::BD_Shape_int64_t::refine_with_constraint (Constraint *c*)

11.7.3.135 native void parma_polyhedra_library::BD_Shape_int64_t::refine_with_constraints (Constraint_System *c*)

11.7.3.136 native Poly_Con_Relation parma_polyhedra_library::BD_Shape_int64_t::relation_with (Congruence *c*)

11.7.3.137 native Poly_Gen_Relation parma_polyhedra_library::BD_Shape_int64_t::relation_with (Generator *c*)

11.7.3.138 native Poly_Con_Relation parma_polyhedra_library::BD_Shape_int64_t::relation_with (Constraint *c*)

11.7.3.139 native void parma_polyhedra_library::BD_Shape_int64_t::remove_higher_space_dimensions (long *new_dimension*)

11.7.3.140 native void parma_polyhedra_library::BD_Shape_int64_t::remove_space_dimensions (Variables_Set *vars*)

11.7.3.141 native boolean parma_polyhedra_library::BD_Shape_int64_t::simplify_using_context_assign (BD_Shape_int64_t *p*)

11.7.3.142 native long parma_polyhedra_library::BD_Shape_int64_t::space_dimension ()

11.7.3.143 native boolean parma_polyhedra_library::BD_Shape_int64_t::strictly_contains (BD_Shape_int64_t *y*)

11.7.3.144 native void parma_polyhedra_library::BD_Shape_int64_t::swap (BD_Shape_int64_t *y*)

11.7.3.145 native void parma_polyhedra_library::BD_Shape_int64_t::time_elapse_assign (BD_Shape_int64_t *p*)

11.7.3.146 native void parma_polyhedra_library::BD_Shape_int64_t::topological_closure_assign ()

11.7.3.147 native String parma_polyhedra_library::BD_Shape_int64_t::toString ()

11.7.3.148 native long parma_polyhedra_library::BD_Shape_int64_t::total_memory_in_bytes ()

11.7.3.149 native void parma_polyhedra_library::BD_Shape_int64_t::unconstrain_space_dimension (Variable *var*)

11.7.3.150 native void parma_polyhedra_library::BD_Shape_int64_t::unconstrain_space_dimensions (Variables_Set *vars*)

11.7.3.151 native void parma_polyhedra_library::BD_Shape_int64_t::upper_bound_assign (BD_Shape_int64_t *p*)

11.7.3.152 native boolean parma_polyhedra_library::BD_Shape_int64_t::upper_bound_assign_if_exact (BD_Shape_int64_t *y*)

11.7.3.153 native void parma_polyhedra_library::BD_Shape_int64_t::widening_assign (BD_Shape_int64_t *y*, By_Reference< Integer > *tp*)

11.7.3.154 native void parma_polyhedra_library::BD_Shape_int64_t::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

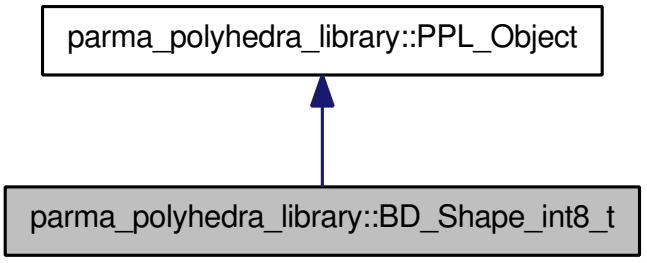
The documentation for this class was generated from the following file:

- BD_Shape_int64_t.java

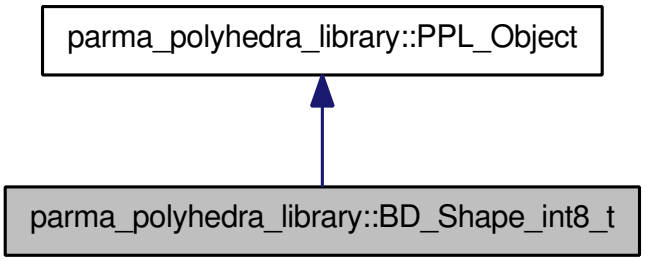
11.8 parma_polyhedra_library::BD_Shape_int8_t Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<int8_t>

Inheritance diagram for parma_polyhedra_library::BD_Shape_int8_t:



Collaboration diagram for parma_polyhedra_library::BD_Shape_int8_t:



Public Member Functions

- BD_Shape_int8_t (long num_dimensions, Degenerate_Element kind)
- BD_Shape_int8_t (Int8_Box y)
- BD_Shape_int8_t (Int16_Box y)
- BD_Shape_int8_t (Int32_Box y)
- BD_Shape_int8_t (Int64_Box y)
- BD_Shape_int8_t (Uint8_Box y)
- BD_Shape_int8_t (Uint16_Box y)
- BD_Shape_int8_t (Uint32_Box y)
- BD_Shape_int8_t (Uint64_Box y)
- BD_Shape_int8_t (Z_Box y)
- BD_Shape_int8_t (Rational_Box y)
- BD_Shape_int8_t (BD_Shape_int8_t y)
- BD_Shape_int8_t (BD_Shape_int16_t y)
- BD_Shape_int8_t (BD_Shape_int32_t y)
- BD_Shape_int8_t (BD_Shape_int64_t y)
- BD_Shape_int8_t (BD_Shape_mpz_class y)
- BD_Shape_int8_t (BD_Shape_mpq_class y)
- BD_Shape_int8_t (Octagonal_Shape_int8_t y)
- BD_Shape_int8_t (Octagonal_Shape_int16_t y)
- BD_Shape_int8_t (Octagonal_Shape_int32_t y)
- BD_Shape_int8_t (Octagonal_Shape_int64_t y)
- BD_Shape_int8_t (Octagonal_Shape_mpz_class y)
- BD_Shape_int8_t (Octagonal_Shape_mpq_class y)
- BD_Shape_int8_t (C_Polyhedron y)
- BD_Shape_int8_t (NNC_Polyhedron y)
- BD_Shape_int8_t (Grid y)
- BD_Shape_int8_t (Float_Box y)
- BD_Shape_int8_t (BD_Shape_float y)
- BD_Shape_int8_t (Octagonal_Shape_float y)
- BD_Shape_int8_t (Double_Box y)
- BD_Shape_int8_t (BD_Shape_double y)
- BD_Shape_int8_t (Octagonal_Shape_double y)
- BD_Shape_int8_t (Long_Double_Box y)
- BD_Shape_int8_t (BD_Shape_long_double y)
- BD_Shape_int8_t (Octagonal_Shape_long_double y)
- BD_Shape_int8_t (Int8_Box y, Complexity_Class complexity)

- BD_Shape_int8_t (Int16_Box y, Complexity_Class complexity)
- BD_Shape_int8_t (Int32_Box y, Complexity_Class complexity)
- BD_Shape_int8_t (Int64_Box y, Complexity_Class complexity)
- BD_Shape_int8_t (Uint8_Box y, Complexity_Class complexity)
- BD_Shape_int8_t (Uint16_Box y, Complexity_Class complexity)
- BD_Shape_int8_t (Uint32_Box y, Complexity_Class complexity)
- BD_Shape_int8_t (Uint64_Box y, Complexity_Class complexity)
- BD_Shape_int8_t (Z_Box y, Complexity_Class complexity)
- BD_Shape_int8_t (Rational_Box y, Complexity_Class complexity)
- BD_Shape_int8_t (BD_Shape_int8_t y, Complexity_Class complexity)
- BD_Shape_int8_t (BD_Shape_int16_t y, Complexity_Class complexity)
- BD_Shape_int8_t (BD_Shape_int32_t y, Complexity_Class complexity)
- BD_Shape_int8_t (BD_Shape_int64_t y, Complexity_Class complexity)
- BD_Shape_int8_t (BD_Shape_mpz_class y, Complexity_Class complexity)
- BD_Shape_int8_t (BD_Shape_mpq_class y, Complexity_Class complexity)
- BD_Shape_int8_t (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- BD_Shape_int8_t (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- BD_Shape_int8_t (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- BD_Shape_int8_t (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- BD_Shape_int8_t (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- BD_Shape_int8_t (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- BD_Shape_int8_t (C_Polyhedron y, Complexity_Class complexity)
- BD_Shape_int8_t (NNC_Polyhedron y, Complexity_Class complexity)
- BD_Shape_int8_t (Grid y, Complexity_Class complexity)
- BD_Shape_int8_t (Float_Box y, Complexity_Class complexity)
- BD_Shape_int8_t (BD_Shape_float y, Complexity_Class complexity)
- BD_Shape_int8_t (Octagonal_Shape_float y, Complexity_Class complexity)
- BD_Shape_int8_t (Double_Box y, Complexity_Class complexity)
- BD_Shape_int8_t (BD_Shape_double y, Complexity_Class complexity)
- BD_Shape_int8_t (Octagonal_Shape_double y, Complexity_Class complexity)
- BD_Shape_int8_t (Long_Double_Box y, Complexity_Class complexity)
- BD_Shape_int8_t (BD_Shape_long_double y, Complexity_Class complexity)
- BD_Shape_int8_t (Octagonal_Shape_long_double y, Complexity_Class complexity)
- BD_Shape_int8_t (Constraint_System cs)
- BD_Shape_int8_t (Congruence_System cs)
- BD_Shape_int8_t (Generator_System cs)
- native void swap (BD_Shape_int8_t y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()

- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (BD_Shape_int8_t y)
- native boolean strictly_contains (BD_Shape_int8_t y)
- native boolean is_disjoint_from (BD_Shape_int8_t y)
- native boolean equals (BD_Shape_int8_t p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (BD_Shape_int8_t p)
- native void upper_bound_assign (BD_Shape_int8_t p)
- native void difference_assign (BD_Shape_int8_t p)
- native void concatenate_assign (BD_Shape_int8_t p)
- native void time_elapse_assign (BD_Shape_int8_t p)
- native boolean upper_bound_assign_if_exact (BD_Shape_int8_t y)
- native boolean simplify_using_context_assign (BD_Shape_int8_t p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)

- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void BHMZ05_widening_assign (BD_Shape_int8_t y, By_Reference< Integer > tp)
- native void H79_widening_assign (BD_Shape_int8_t y, By_Reference< Integer > tp)
- native void widening_assign (BD_Shape_int8_t y, By_Reference< Integer > tp)
- native void limited_BHMZ05_extrapolation_assign (BD_Shape_int8_t y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_H79_extrapolation_assign (BD_Shape_int8_t y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (BD_Shape_int8_t y, Constraint_System cs, By_Reference< Integer > tp)
- native void CC76_extrapolation_assign (BD_Shape_int8_t arg, By_Reference< Integer > tp)
- native void CC76_narrowing_assign (BD_Shape_int8_t arg)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native int hashCode ()
- native String toString ()

Static Public Member Functions

- static native Pair< BD_Shape_int8_t, Pointset_Powerset_NNC_Polyhedron > linear_partition (BD_Shape_int8_t p, BD_Shape_int8_t q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- BD_Shape_int8_t ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)

- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)

- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.8.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<int8_t>

Definition at line 33 of file BD_Shape_int8_t.java.

11.8.2 Constructor & Destructor Documentation

11.8.2.1 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.2 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t () [inline, private]

Definition at line 45 of file BD_Shape_int8_t.java.

11.8.2.3 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Int8_Box *y*) [inline]

Definition at line 52 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.4 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Int16_Box *y*) [inline]

Definition at line 56 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.5 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Int32_Box *y*) [inline]

Definition at line 60 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.6 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Int64_Box *y*) [inline]

Definition at line 64 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.7 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Uint8_Box *y*) [inline]

Definition at line 68 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.8 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Uint16_Box *y*) [inline]

Definition at line 72 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.9 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Uint32_Box *y*) [inline]

Definition at line 76 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.10 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Uint64_Box *y*) [inline]

Definition at line 80 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.11 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Z_Box *y*) [inline]

Definition at line 84 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.12 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Rational_Box *y*) [inline]

Definition at line 88 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.13 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.14 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.15 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.16 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.17 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.18 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.19 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.20 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.21 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.22 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.23 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.24 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.25 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (C_Polyhedron *y*) [inline]

Definition at line 140 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.26 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.27 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Grid *y*) [inline]

Definition at line 148 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.28 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Float_Box *y*) [inline]

Definition at line 152 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.29 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (BD_Shape_float *y*) [inline]

Definition at line 156 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.30 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.31 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Double_Box *y*) [inline]

Definition at line 164 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.32 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (BD_Shape_double *y*) [inline]

Definition at line 168 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.33 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.34 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Long_Double_Box *y*) [inline]

Definition at line 176 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.35 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.36 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.37 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.38 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.39 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.40 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.41 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.42 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.43 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.44 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.45 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.46 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.47 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.48 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.49 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.50 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.51 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.52 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.53 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.54 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.55 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.56 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.57 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.58 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.59 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.60 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.61 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.62 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.63 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.64 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.65 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.66 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.67 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.68 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.69 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.70 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.71 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Constraint_System *cs*) [inline]

Definition at line 334 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.72 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Congruence_System *cs*) [inline]

Definition at line 338 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.2.73 parma_polyhedra_library::BD_Shape_int8_t::BD_Shape_int8_t (Generator_System *cs*) [inline]

Definition at line 342 of file BD_Shape_int8_t.java.

References build_cpp_object().

11.8.3 Member Function Documentation

11.8.3.1 native void parma_polyhedra_library::BD_Shape_int8_t::add_congruence (Congruence *c*)

11.8.3.2 native void parma_polyhedra_library::BD_Shape_int8_t::add_congruences (Congruence_System *c*)

11.8.3.3 native void parma_polyhedra_library::BD_Shape_int8_t::add_constraint (Constraint *c*)

11.8.3.4 native void parma_polyhedra_library::BD_Shape_int8_t::add_constraints (Constraint_System *c*)

11.8.3.5 native void parma_polyhedra_library::BD_Shape_int8_t::add_space_dimensions_and_embed (long *m*)

11.8.3.6 native void parma_polyhedra_library::BD_Shape_int8_t::add_space_dimensions_and_project (long *m*)

11.8.3.7 native long parma_polyhedra_library::BD_Shape_int8_t::affine_dimension ()

11.8.3.8 native void parma_polyhedra_library::BD_Shape_int8_t::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.8.3.9 native void parma_polyhedra_library::BD_Shape_int8_t::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.8.3.10 native String parma_polyhedra_library::BD_Shape_int8_t::ascii_dump ()

11.8.3.11 native void parma_polyhedra_library::BD_Shape_int8_t::BHMZ05_widening_assign (BD_Shape_int8_t *y*, By_Reference< Integer > *tp*)

11.8.3.12 native void parma_polyhedra_library::BD_Shape_int8_t::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.8.3.13 native void parma_polyhedra_library::BD_Shape_int8_t::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.8.3.14 native boolean parma_polyhedra_library::BD_Shape_int8_t::bounds_from_above (Linear_Expression *expr*)

11.8.3.15 native boolean parma_polyhedra_library::BD_Shape_int8_t::bounds_from_below (Linear_Expression *expr*)

11.8.3.16 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.8.3.17 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.8.3.18 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.8.3.19 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (BD_Shape_long_double *y*) `[private]`

11.8.3.20 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) `[private]`

11.8.3.21 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Long_Double_Box *y*) `[private]`

11.8.3.22 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.8.3.23 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.8.3.24 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.8.3.25 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (BD_Shape_double *y*) [private]

11.8.3.26 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.8.3.27 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Double_Box *y*) [private]

11.8.3.28 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.8.3.29 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.8.3.30 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.8.3.31 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (BD_Shape_float *y*) [private]

11.8.3.32 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.8.3.33 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Float_Box *y*) [private]

11.8.3.34 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.8.3.35 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Grid *y*) [private]

11.8.3.36 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.8.3.37 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (NNC_Polyhedron *y*) [private]

11.8.3.38 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.8.3.39 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (C_Polyhedron *y*) [private]

11.8.3.40 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.8.3.41 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.8.3.42 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.8.3.43 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.8.3.44 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.8.3.45 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.8.3.46 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.8.3.47 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.8.3.48 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.8.3.49 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.8.3.50 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.8.3.51 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.8.3.52 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.8.3.53 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.8.3.54 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.8.3.55 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.8.3.56 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.8.3.57 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.8.3.58 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.8.3.59 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.8.3.60 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.8.3.61 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.8.3.62 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.8.3.63 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.8.3.64 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.8.3.65 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Rational_Box *y*) [private]

11.8.3.66 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.8.3.67 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Z_Box *y*) [private]

11.8.3.68 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.8.3.69 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Uint64_Box *y*) [private]

11.8.3.70 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.8.3.71 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Uint32_Box *y*) [private]

11.8.3.72 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.8.3.73 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Uint16_Box *y*) [private]

11.8.3.74 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.8.3.75 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Uint8_Box *y*) [private]

11.8.3.76 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.8.3.77 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Int64_Box *y*) [private]

11.8.3.78 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.8.3.79 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Int32_Box *y*) [private]

11.8.3.80 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.8.3.81 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Int16_Box *y*) [private]

11.8.3.82 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.8.3.83 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Int8_Box *y*) [private]

11.8.3.84 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.8.3.85 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Generator_System *cs*) [private]

11.8.3.86 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Congruence_System *cs*) [private]

11.8.3.87 native void parma_polyhedra_library::BD_Shape_int8_t::build_cpp_object (Constraint_System *cs*) [private]

Referenced by BD_Shape_int8_t().

11.8.3.88 native void parma_polyhedra_library::BD_Shape_int8_t::CC76_extrapolation_assign (BD_Shape_int8_t *arg*, By_Reference< Integer > *tp*)

11.8.3.89 native void parma_polyhedra_library::BD_Shape_int8_t::CC76_narrowing_assign (BD_Shape_int8_t *arg*)

11.8.3.90 native void parma_polyhedra_library::BD_Shape_int8_t::concatenate_assign (BD_Shape_int8_t *p*)

11.8.3.91 native Congruence_System parma_polyhedra_library::BD_Shape_int8_t::congruences ()

11.8.3.92 native boolean parma_polyhedra_library::BD_Shape_int8_t::constrains (Variable *var*)

11.8.3.93 native Constraint_System parma_polyhedra_library::BD_Shape_int8_t::constraints ()

11.8.3.94 native boolean parma_polyhedra_library::BD_Shape_int8_t::contains (BD_Shape_int8_t *y*)

11.8.3.95 native boolean parma_polyhedra_library::BD_Shape_int8_t::contains_integer_point ()

11.8.3.96 native void parma_polyhedra_library::BD_Shape_int8_t::difference_assign (BD_Shape_int8_t *p*)

11.8.3.97 native void parma_polyhedra_library::BD_Shape_int8_t::drop_some_non_integer_points (Integer *complexity_threshold*)

11.8.3.98 native void parma_polyhedra_library::BD_Shape_int8_t::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.8.3.99 boolean parma_polyhedra_library::BD_Shape_int8_t::equals (Object *y*) `[inline]`

Definition at line 465 of file BD_Shape_int8_t.java.

References equals().

11.8.3.100 native boolean parma_polyhedra_library::BD_Shape_int8_t::equals (BD_Shape_int8_t *p*)

Referenced by equals().

11.8.3.101 native void parma_polyhedra_library::BD_Shape_int8_t::expand_space_dimension (Variable *var*, long *m*)

11.8.3.102 native long parma_polyhedra_library::BD_Shape_int8_t::external_memory_in_bytes ()

11.8.3.103 native void parma_polyhedra_library::BD_Shape_int8_t::finalize () [protected]

11.8.3.104 native void parma_polyhedra_library::BD_Shape_int8_t::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.8.3.105 native void parma_polyhedra_library::BD_Shape_int8_t::free ()

11.8.3.106 native boolean parma_polyhedra_library::BD_Shape_int8_t::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.8.3.107 native void parma_polyhedra_library::BD_Shape_int8_t::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.8.3.108 native void parma_polyhedra_library::BD_Shape_int8_t::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.8.3.109 native void parma_polyhedra_library::BD_Shape_int8_t::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.8.3.110 native void parma_polyhedra_library::BD_Shape_int8_t::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.8.3.111 native void parma_polyhedra_library::BD_Shape_int8_t::H79_widening_assign (BD_Shape_int8_t *y*, By_Reference< Integer > *tp*)

11.8.3.112 native int parma_polyhedra_library::BD_Shape_int8_t::hashCode ()

11.8.3.113 native void parma_polyhedra_library::BD_Shape_int8_t::intersection_assign (BD_Shape_int8_t *p*)

11.8.3.114 native boolean parma_polyhedra_library::BD_Shape_int8_t::is_bounded ()

11.8.3.115 native boolean parma_polyhedra_library::BD_Shape_int8_t::is_discrete ()

11.8.3.116 native boolean parma_polyhedra_library::BD_Shape_int8_t::is_disjoint_from (BD_Shape_int8_t *y*)

11.8.3.117 native boolean parma_polyhedra_library::BD_Shape_int8_t::is_empty ()

11.8.3.118 native boolean parma_polyhedra_library::BD_Shape_int8_t::is_topologically_closed ()

11.8.3.119 native boolean parma_polyhedra_library::BD_Shape_int8_t::is_universe ()

11.8.3.120 native void parma_polyhedra_library::BD_Shape_int8_t::limited_BHMZ05_extrapolation_assign (BD_Shape_int8_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.8.3.121 native void parma_polyhedra_library::BD_Shape_int8_t::limited_CC76_extrapolation_assign (BD_Shape_int8_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.8.3.122 native void parma_polyhedra_library::BD_Shape_int8_t::limited_H79_extrapolation_assign (BD_Shape_int8_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.8.3.123 static native Pair<BD_Shape_int8_t, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::BD_Shape_int8_t::linear_partition (BD_Shape_int8_t *p*, BD_Shape_int8_t *q*) `[static]`

11.8.3.124 native void parma_polyhedra_library::BD_Shape_int8_t::map_space_dimensions (Partial_Function *pfunc*)

11.8.3.125 native boolean parma_polyhedra_library::BD_Shape_int8_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.8.3.126 native boolean parma_polyhedra_library::BD_Shape_int8_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.8.3.127 native boolean parma_polyhedra_library::BD_Shape_int8_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.8.3.128 native boolean parma_polyhedra_library::BD_Shape_int8_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.8.3.129 native Congruence_System parma_polyhedra_library::BD_Shape_int8_t::minimized_congruences ()

11.8.3.130 native Constraint_System parma_polyhedra_library::BD_Shape_int8_t::minimized_constraints ()

11.8.3.131 native boolean parma_polyhedra_library::BD_Shape_int8_t::OK ()

11.8.3.132 native void parma_polyhedra_library::BD_Shape_int8_t::refine_with_congruence (Congruence *c*)

11.8.3.133 native void parma_polyhedra_library::BD_Shape_int8_t::refine_with_congruences (Congruence_System *c*)

11.8.3.134 native void parma_polyhedra_library::BD_Shape_int8_t::refine_with_constraint (Constraint *c*)

11.8.3.135 native void parma_polyhedra_library::BD_Shape_int8_t::refine_with_constraints (Constraint_System *c*)

11.8.3.136 native Poly_Con_Relation parma_polyhedra_library::BD_Shape_int8_t::relation_with (Congruence *c*)

11.8.3.137 native Poly_Gen_Relation parma_polyhedra_library::BD_Shape_int8_t::relation_with (Generator *c*)

11.8.3.138 native Poly_Con_Relation parma_polyhedra_library::BD_Shape_int8_t::relation_with (Constraint *c*)

11.8.3.139 native void parma_polyhedra_library::BD_Shape_int8_t::remove_higher_space_dimensions (long *new_dimension*)

11.8.3.140 native void parma_polyhedra_library::BD_Shape_int8_t::remove_space_dimensions (Variables_Set *vars*)

11.8.3.141 native boolean parma_polyhedra_library::BD_Shape_int8_t::simplify_using_context_assign (BD_Shape_int8_t *p*)

11.8.3.142 native long parma_polyhedra_library::BD_Shape_int8_t::space_dimension ()

11.8.3.143 native boolean parma_polyhedra_library::BD_Shape_int8_t::strictly_contains (BD_Shape_int8_t *y*)

11.8.3.144 native void parma_polyhedra_library::BD_Shape_int8_t::swap (BD_Shape_int8_t *y*)

11.8.3.145 native void parma_polyhedra_library::BD_Shape_int8_t::time_elapse_assign (BD_Shape_int8_t *p*)

11.8.3.146 native void parma_polyhedra_library::BD_Shape_int8_t::topological_closure_assign ()

11.8.3.147 native String parma_polyhedra_library::BD_Shape_int8_t::toString ()

11.8.3.148 native long parma_polyhedra_library::BD_Shape_int8_t::total_memory_in_bytes ()

11.8.3.149 native void parma_polyhedra_library::BD_Shape_int8_t::unconstrain_space_dimension (Variable *var*)

11.8.3.150 native void parma_polyhedra_library::BD_Shape_int8_t::unconstrain_space_dimensions (Variables_Set *vars*)

11.8.3.151 native void parma_polyhedra_library::BD_Shape_int8_t::upper_bound_assign (BD_Shape_int8_t *p*)

11.8.3.152 native boolean parma_polyhedra_library::BD_Shape_int8_t::upper_bound_assign_if_exact (BD_Shape_int8_t *y*)

11.8.3.153 native void parma_polyhedra_library::BD_Shape_int8_t::widening_assign (BD_Shape_int8_t *y*, By_Reference< Integer > *tp*)

11.8.3.154 native void parma_polyhedra_library::BD_Shape_int8_t::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

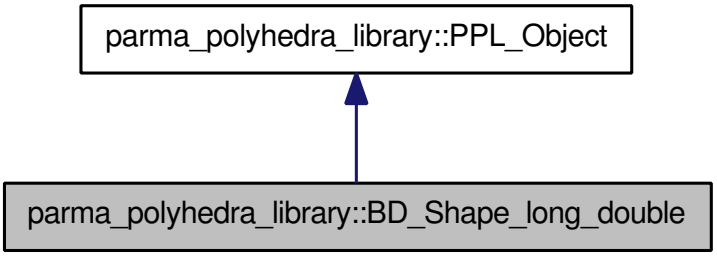
The documentation for this class was generated from the following file:

- BD_Shape_int8_t.java

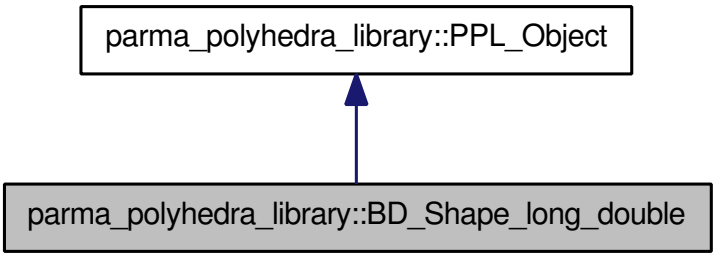
11.9 parma_polyhedra_library::BD_Shape_long_double Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<long double>

Inheritance diagram for parma_polyhedra_library::BD_Shape_long_double:



Collaboration diagram for parma_polyhedra_library::BD_Shape_long_double:



Public Member Functions

- BD_Shape_long_double (long num_dimensions, Degenerate_Element kind)
- BD_Shape_long_double (Int8_Box y)
- BD_Shape_long_double (Int16_Box y)
- BD_Shape_long_double (Int32_Box y)
- BD_Shape_long_double (Int64_Box y)
- BD_Shape_long_double (Uint8_Box y)
- BD_Shape_long_double (Uint16_Box y)
- BD_Shape_long_double (Uint32_Box y)
- BD_Shape_long_double (Uint64_Box y)
- BD_Shape_long_double (Z_Box y)
- BD_Shape_long_double (Rational_Box y)
- BD_Shape_long_double (BD_Shape_int8_t y)
- BD_Shape_long_double (BD_Shape_int16_t y)
- BD_Shape_long_double (BD_Shape_int32_t y)
- BD_Shape_long_double (BD_Shape_int64_t y)
- BD_Shape_long_double (BD_Shape_mpz_class y)
- BD_Shape_long_double (BD_Shape_mpq_class y)
- BD_Shape_long_double (Octagonal_Shape_int8_t y)
- BD_Shape_long_double (Octagonal_Shape_int16_t y)
- BD_Shape_long_double (Octagonal_Shape_int32_t y)
- BD_Shape_long_double (Octagonal_Shape_int64_t y)
- BD_Shape_long_double (Octagonal_Shape_mpz_class y)
- BD_Shape_long_double (Octagonal_Shape_mpq_class y)
- BD_Shape_long_double (C_Polyhedron y)
- BD_Shape_long_double (NNC_Polyhedron y)
- BD_Shape_long_double (Grid y)
- BD_Shape_long_double (Float_Box y)
- BD_Shape_long_double (BD_Shape_float y)
- BD_Shape_long_double (Octagonal_Shape_float y)
- BD_Shape_long_double (Double_Box y)
- BD_Shape_long_double (BD_Shape_double y)
- BD_Shape_long_double (Octagonal_Shape_double y)
- BD_Shape_long_double (Long_Double_Box y)
- BD_Shape_long_double (BD_Shape_long_double y)
- BD_Shape_long_double (Octagonal_Shape_long_double y)
- BD_Shape_long_double (Int8_Box y, Complexity_Class complexity)

- BD_Shape_long_double (Int16_Box y, Complexity_Class complexity)
- BD_Shape_long_double (Int32_Box y, Complexity_Class complexity)
- BD_Shape_long_double (Int64_Box y, Complexity_Class complexity)
- BD_Shape_long_double (Uint8_Box y, Complexity_Class complexity)
- BD_Shape_long_double (Uint16_Box y, Complexity_Class complexity)
- BD_Shape_long_double (Uint32_Box y, Complexity_Class complexity)
- BD_Shape_long_double (Uint64_Box y, Complexity_Class complexity)
- BD_Shape_long_double (Z_Box y, Complexity_Class complexity)
- BD_Shape_long_double (Rational_Box y, Complexity_Class complexity)
- BD_Shape_long_double (BD_Shape_int8_t y, Complexity_Class complexity)
- BD_Shape_long_double (BD_Shape_int16_t y, Complexity_Class complexity)
- BD_Shape_long_double (BD_Shape_int32_t y, Complexity_Class complexity)
- BD_Shape_long_double (BD_Shape_int64_t y, Complexity_Class complexity)
- BD_Shape_long_double (BD_Shape_mpz_class y, Complexity_Class complexity)
- BD_Shape_long_double (BD_Shape_mpq_class y, Complexity_Class complexity)
- BD_Shape_long_double (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- BD_Shape_long_double (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- BD_Shape_long_double (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- BD_Shape_long_double (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- BD_Shape_long_double (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- BD_Shape_long_double (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- BD_Shape_long_double (C_Polyhedron y, Complexity_Class complexity)
- BD_Shape_long_double (NNC_Polyhedron y, Complexity_Class complexity)
- BD_Shape_long_double (Grid y, Complexity_Class complexity)
- BD_Shape_long_double (Float_Box y, Complexity_Class complexity)
- BD_Shape_long_double (BD_Shape_float y, Complexity_Class complexity)
- BD_Shape_long_double (Octagonal_Shape_float y, Complexity_Class complexity)
- BD_Shape_long_double (Double_Box y, Complexity_Class complexity)
- BD_Shape_long_double (BD_Shape_double y, Complexity_Class complexity)
- BD_Shape_long_double (Octagonal_Shape_double y, Complexity_Class complexity)
- BD_Shape_long_double (Long_Double_Box y, Complexity_Class complexity)
- BD_Shape_long_double (BD_Shape_long_double y, Complexity_Class complexity)
- BD_Shape_long_double (Octagonal_Shape_long_double y, Complexity_Class complexity)
- BD_Shape_long_double (Constraint_System cs)
- BD_Shape_long_double (Congruence_System cs)
- BD_Shape_long_double (Generator_System cs)
- native void swap (BD_Shape_long_double y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()

- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (BD_Shape_long_double y)
- native boolean strictly_contains (BD_Shape_long_double y)
- native boolean is_disjoint_from (BD_Shape_long_double y)
- native boolean equals (BD_Shape_long_double p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (BD_Shape_long_double p)
- native void upper_bound_assign (BD_Shape_long_double p)
- native void difference_assign (BD_Shape_long_double p)
- native void concatenate_assign (BD_Shape_long_double p)
- native void time_elapse_assign (BD_Shape_long_double p)
- native boolean upper_bound_assign_if_exact (BD_Shape_long_double y)
- native boolean simplify_using_context_assign (BD_Shape_long_double p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)

- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void BHMZ05_widening_assign (BD_Shape_long_double y, By_Reference< Integer > tp)
- native void H79_widening_assign (BD_Shape_long_double y, By_Reference< Integer > tp)
- native void widening_assign (BD_Shape_long_double y, By_Reference< Integer > tp)
- native void limited_BHMZ05_extrapolation_assign (BD_Shape_long_double y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_H79_extrapolation_assign (BD_Shape_long_double y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (BD_Shape_long_double y, Constraint_System cs, By_Reference< Integer > tp)
- native void CC76_extrapolation_assign (BD_Shape_long_double arg, By_Reference< Integer > tp)
- native void CC76_narrowing_assign (BD_Shape_long_double arg)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native int hashCode ()
- native String toString ()

Static Public Member Functions

- static native Pair< BD_Shape_long_double, Pointset_Powerset_NNC_Polyhedron > linear_partition (BD_Shape_long_double p, BD_Shape_long_double q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- BD_Shape_long_double ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)

- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)

- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.9.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<long double>

Definition at line 33 of file BD_Shape_long_double.java.

11.9.2 Constructor & Destructor Documentation

11.9.2.1 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.2 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double () [inline, private]

Definition at line 45 of file BD_Shape_long_double.java.

11.9.2.3 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Int8_Box *y*) [inline]

Definition at line 52 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.4 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Int16_Box *y*) [inline]

Definition at line 56 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.5 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Int32_Box *y*) [inline]

Definition at line 60 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.6 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Int64_Box *y*) [inline]

Definition at line 64 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.7 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Uint8_Box *y*) [inline]

Definition at line 68 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.8 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Uint16_Box *y*) [inline]

Definition at line 72 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.9 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Uint32_Box *y*) [inline]

Definition at line 76 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.10 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Uint64_Box *y*) [inline]

Definition at line 80 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.11 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Z_Box *y*) [inline]

Definition at line 84 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.12 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Rational_Box *y*) [inline]

Definition at line 88 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.13 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.14 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.15 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.16 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.17 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.18 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.19 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.20 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.21 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.22 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.23 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.24 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.25 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (C_Polyhedron *y*) [inline]

Definition at line 140 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.26 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.27 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Grid *y*) [inline]

Definition at line 148 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.28 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Float_Box *y*) [inline]

Definition at line 152 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.29 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (BD_Shape_float *y*) [inline]

Definition at line 156 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.30 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.31 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Double_Box *y*) [inline]

Definition at line 164 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.32 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (BD_Shape_double *y*) [inline]

Definition at line 168 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.33 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.34 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Long_Double_Box *y*) [inline]

Definition at line 176 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.35 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.36 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.37 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.38 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.39 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.40 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.41 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.42 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.43 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.44 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.45 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.46 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.47 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.48 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.49 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.50 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.51 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.52 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.53 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.54 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.55 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.56 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.57 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.58 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.59 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.60 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.61 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.62 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.63 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.64 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.65 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.66 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.67 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.68 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.69 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.70 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.71 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Constraint_System *cs*) [inline]

Definition at line 334 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.72 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Congruence_System *cs*) [inline]

Definition at line 338 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.2.73 parma_polyhedra_library::BD_Shape_long_double::BD_Shape_long_double (Generator_System *cs*) [inline]

Definition at line 342 of file BD_Shape_long_double.java.

References build_cpp_object().

11.9.3 Member Function Documentation

11.9.3.1 native void parma_polyhedra_library::BD_Shape_long_double::add_congruence (Congruence *c*)

11.9.3.2 native void parma_polyhedra_library::BD_Shape_long_double::add_congruences (Congruence_System *c*)

11.9.3.3 native void parma_polyhedra_library::BD_Shape_long_double::add_constraint (Constraint *c*)

11.9.3.4 native void parma_polyhedra_library::BD_Shape_long_double::add_constraints (Constraint_System *c*)

11.9.3.5 native void parma_polyhedra_library::BD_Shape_long_double::add_space_dimensions_and_embed (long *m*)

11.9.3.6 native void parma_polyhedra_library::BD_Shape_long_double::add_space_dimensions_and_project (long *m*)

11.9.3.7 native long parma_polyhedra_library::BD_Shape_long_double::affine_dimension ()

11.9.3.8 native void parma_polyhedra_library::BD_Shape_long_double::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.9.3.9 native void parma_polyhedra_library::BD_Shape_long_double::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.9.3.10 native String parma_polyhedra_library::BD_Shape_long_double::ascii_dump ()

11.9.3.11 native void parma_polyhedra_library::BD_Shape_long_double::BHMZ05_widening_assign (BD_Shape_long_double *y*, By_Reference< Integer > *tp*)

11.9.3.12 native void parma_polyhedra_library::BD_Shape_long_double::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.9.3.13 native void parma_polyhedra_library::BD_Shape_long_double::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.9.3.14 native boolean parma_polyhedra_library::BD_Shape_long_double::bounds_from_above (Linear_Expression *expr*)

11.9.3.15 native boolean parma_polyhedra_library::BD_Shape_long_double::bounds_from_below (Linear_Expression *expr*)

11.9.3.16 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.9.3.17 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.9.3.18 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.9.3.19 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (BD_Shape_long_double *y*) `[private]`

11.9.3.20 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) `[private]`

11.9.3.21 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Long_Double_Box *y*) `[private]`

11.9.3.22 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.9.3.23 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.9.3.24 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.9.3.25 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (BD_Shape_double *y*) [private]

11.9.3.26 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.9.3.27 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Double_Box *y*) [private]

11.9.3.28 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.9.3.29 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.9.3.30 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.9.3.31 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (BD_Shape_float *y*) [private]

11.9.3.32 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.9.3.33 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Float_Box *y*) [private]

11.9.3.34 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.9.3.35 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Grid *y*) [private]

11.9.3.36 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.9.3.37 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (NNC_Polyhedron *y*) [private]

11.9.3.38 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.9.3.39 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (C_Polyhedron *y*) [private]

11.9.3.40 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.9.3.41 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.9.3.42 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.9.3.43 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.9.3.44 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.9.3.45 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.9.3.46 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.9.3.47 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.9.3.48 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.9.3.49 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.9.3.50 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.9.3.51 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.9.3.52 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.9.3.53 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.9.3.54 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.9.3.55 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.9.3.56 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.9.3.57 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.9.3.58 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.9.3.59 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.9.3.60 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.9.3.61 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.9.3.62 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.9.3.63 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.9.3.64 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.9.3.65 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Rational_Box *y*) [private]

11.9.3.66 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.9.3.67 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Z_Box *y*) [private]

11.9.3.68 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.9.3.69 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Uint64_Box *y*) [private]

11.9.3.70 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.9.3.71 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Uint32_Box *y*) [private]

11.9.3.72 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.9.3.73 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Uint16_Box *y*) [private]

11.9.3.74 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.9.3.75 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Uint8_Box *y*) [private]

11.9.3.76 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.9.3.77 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Int64_Box *y*) [private]

11.9.3.78 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.9.3.79 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Int32_Box *y*) [private]

11.9.3.80 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.9.3.81 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Int16_Box *y*) [private]

11.9.3.82 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.9.3.83 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Int8_Box *y*) [private]

11.9.3.84 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.9.3.85 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Generator_System *cs*) [private]

11.9.3.86 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Congruence_System *cs*) [private]

11.9.3.87 native void parma_polyhedra_library::BD_Shape_long_double::build_cpp_object (Constraint_System *cs*) [private]

Referenced by BD_Shape_long_double().

11.9.3.88 native void parma_polyhedra_library::BD_Shape_long_double::CC76_-extrapolation_assign (BD_Shape_long_double *arg*, By_Reference< Integer > *tp*)

11.9.3.89 native void parma_polyhedra_library::BD_Shape_long_double::CC76_narrowing_-assign (BD_Shape_long_double *arg*)

11.9.3.90 native void parma_polyhedra_library::BD_Shape_long_double::concatenate_assign (BD_Shape_long_double *p*)

11.9.3.91 native Congruence_System parma_polyhedra_library::BD_Shape_long_-double::congruences ()

11.9.3.92 native boolean parma_polyhedra_library::BD_Shape_long_double::constrains (Variable *var*)

11.9.3.93 native Constraint_System parma_polyhedra_library::BD_Shape_long_-double::constraints ()

11.9.3.94 native boolean parma_polyhedra_library::BD_Shape_long_double::contains (BD_Shape_long_double *y*)

11.9.3.95 native boolean parma_polyhedra_library::BD_Shape_long_double::contains_integer_point ()

11.9.3.96 native void parma_polyhedra_library::BD_Shape_long_double::difference_assign (BD_Shape_long_double *p*)

11.9.3.97 native void parma_polyhedra_library::BD_Shape_long_double::drop_some_non_integer_points (Integer *complexity_threshold*)

11.9.3.98 native void parma_polyhedra_library::BD_Shape_long_double::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.9.3.99 boolean parma_polyhedra_library::BD_Shape_long_double::equals (Object *y*) `[inline]`

Definition at line 465 of file BD_Shape_long_double.java.

References equals().

11.9.3.100 native boolean parma_polyhedra_library::BD_Shape_long_double::equals (BD_Shape_long_double *p*)

Referenced by equals().

11.9.3.101 native void parma_polyhedra_library::BD_Shape_long_double::expand_space_dimension (Variable *var*, long *m*)

11.9.3.102 native long parma_polyhedra_library::BD_Shape_long_double::external_memory_in_bytes ()

11.9.3.103 native void parma_polyhedra_library::BD_Shape_long_double::finalize () [protected]

11.9.3.104 native void parma_polyhedra_library::BD_Shape_long_double::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.9.3.105 native void parma_polyhedra_library::BD_Shape_long_double::free ()

11.9.3.106 native boolean parma_polyhedra_library::BD_Shape_long_double::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.9.3.107 native void parma_polyhedra_library::BD_Shape_long_double::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.9.3.108 native void parma_polyhedra_library::BD_Shape_long_double::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.9.3.109 native void parma_polyhedra_library::BD_Shape_long_double::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.9.3.110 native void parma_polyhedra_library::BD_Shape_long_double::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.9.3.111 native void parma_polyhedra_library::BD_Shape_long_double::H79_widening_assign (BD_Shape_long_double *y*, By_Reference< Integer > *tp*)

11.9.3.112 native int parma_polyhedra_library::BD_Shape_long_double::hashCode ()

11.9.3.113 native void parma_polyhedra_library::BD_Shape_long_double::intersection_assign (BD_Shape_long_double *p*)

11.9.3.114 native boolean parma_polyhedra_library::BD_Shape_long_double::is_bounded ()

11.9.3.115 native boolean parma_polyhedra_library::BD_Shape_long_double::is_discrete ()

11.9.3.116 native boolean parma_polyhedra_library::BD_Shape_long_double::is_disjoint_from (BD_Shape_long_double *y*)

11.9.3.117 native boolean parma_polyhedra_library::BD_Shape_long_double::is_empty ()

11.9.3.118 native boolean parma_polyhedra_library::BD_Shape_long_double::is_topologically_closed ()

11.9.3.119 native boolean parma_polyhedra_library::BD_Shape_long_double::is_universe ()

11.9.3.120 native void parma_polyhedra_library::BD_Shape_long_double::limited_BHMZ05_extrapolation_assign (BD_Shape_long_double *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.9.3.121 native void parma_polyhedra_library::BD_Shape_long_double::limited_CC76_extrapolation_assign (BD_Shape_long_double *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.9.3.122 native void parma_polyhedra_library::BD_Shape_long_double::limited_H79_extrapolation_assign (BD_Shape_long_double *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.9.3.123 static native Pair<BD_Shape_long_double, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::BD_Shape_long_double::linear_partition (BD_Shape_long_double *p*, BD_Shape_long_double *q*) `[static]`

11.9.3.124 native void parma_polyhedra_library::BD_Shape_long_double::map_space_dimensions (Partial_Function *pfunc*)

11.9.3.125 native boolean parma_polyhedra_library::BD_Shape_long_double::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.9.3.126 native boolean parma_polyhedra_library::BD_Shape_long_double::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.9.3.127 native boolean parma_polyhedra_library::BD_Shape_long_double::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.9.3.128 native boolean parma_polyhedra_library::BD_Shape_long_double::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.9.3.129 native Congruence_System parma_polyhedra_library::BD_Shape_long_double::minimized_congruences ()

11.9.3.130 native Constraint_System parma_polyhedra_library::BD_Shape_long_double::minimized_constraints ()

11.9.3.131 native boolean parma_polyhedra_library::BD_Shape_long_double::OK ()

11.9.3.132 native void parma_polyhedra_library::BD_Shape_long_double::refine_with_congruence (Congruence *c*)

11.9.3.133 native void parma_polyhedra_library::BD_Shape_long_double::refine_with_congruences (Congruence_System *c*)

11.9.3.134 native void parma_polyhedra_library::BD_Shape_long_double::refine_with_constraint (Constraint *c*)

11.9.3.135 native void parma_polyhedra_library::BD_Shape_long_double::refine_with_constraints (Constraint_System *c*)

11.9.3.136 native Poly_Con_Relation parma_polyhedra_library::BD_Shape_long_double::relation_with (Congruence *c*)

11.9.3.137 native Poly_Gen_Relation parma_polyhedra_library::BD_Shape_long_double::relation_with (Generator *c*)

11.9.3.138 native Poly_Con_Relation parma_polyhedra_library::BD_Shape_long_double::relation_with (Constraint *c*)

11.9.3.139 native void parma_polyhedra_library::BD_Shape_long_double::remove_higher_space_dimensions (long *new_dimension*)

11.9.3.140 native void parma_polyhedra_library::BD_Shape_long_double::remove_space_dimensions (Variables_Set *vars*)

11.9.3.141 native boolean parma_polyhedra_library::BD_Shape_long_double::simplify_using_context_assign (BD_Shape_long_double *p*)

11.9.3.142 native long parma_polyhedra_library::BD_Shape_long_double::space_dimension ()

11.9.3.143 native boolean parma_polyhedra_library::BD_Shape_long_double::strictly_contains (BD_Shape_long_double *y*)

11.9.3.144 native void parma_polyhedra_library::BD_Shape_long_double::swap (BD_Shape_long_double *y*)

11.9.3.145 native void parma_polyhedra_library::BD_Shape_long_double::time_elapse_assign (BD_Shape_long_double *p*)

11.9.3.146 native void parma_polyhedra_library::BD_Shape_long_double::topological_closure_assign ()

11.9.3.147 native String parma_polyhedra_library::BD_Shape_long_double::toString ()

11.9.3.148 native long parma_polyhedra_library::BD_Shape_long_double::total_memory_in_bytes ()

11.9.3.149 native void parma_polyhedra_library::BD_Shape_long_double::unconstrain_space_dimension (Variable *var*)

11.9.3.150 native void parma_polyhedra_library::BD_Shape_long_double::unconstrain_space_dimensions (Variables_Set *vars*)

11.9.3.151 native void parma_polyhedra_library::BD_Shape_long_double::upper_bound_assign (BD_Shape_long_double *p*)

11.9.3.152 native boolean parma_polyhedra_library::BD_Shape_long_double::upper_bound_assign_if_exact (BD_Shape_long_double *y*)

11.9.3.153 native void parma_polyhedra_library::BD_Shape_long_double::widening_assign (BD_Shape_long_double *y*, By_Reference< Integer > *tp*)

11.9.3.154 native void parma_polyhedra_library::BD_Shape_long_double::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

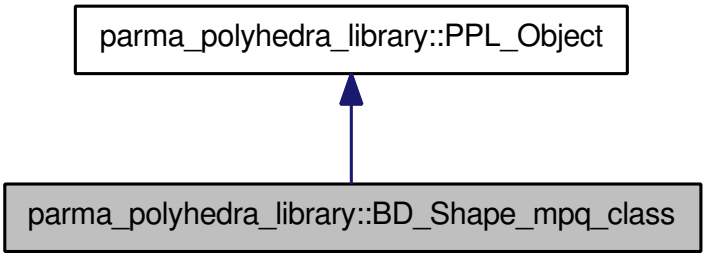
The documentation for this class was generated from the following file:

- BD_Shape_long_double.java

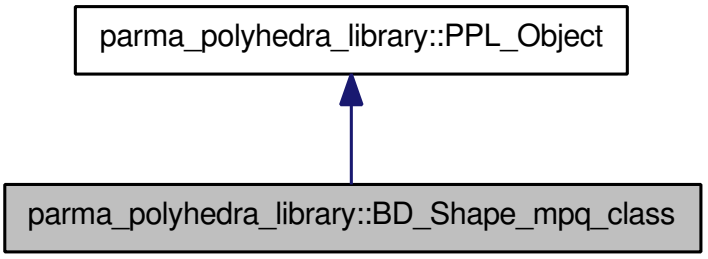
11.10 parma_polyhedra_library::BD_Shape_mpq_class Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<mpq_class>

Inheritance diagram for parma_polyhedra_library::BD_Shape_mpq_class:



Collaboration diagram for parma_polyhedra_library::BD_Shape_mpq_class:



Public Member Functions

- BD_Shape_mpq_class (long num_dimensions, Degenerate_Element kind)
- BD_Shape_mpq_class (Int8_Box y)
- BD_Shape_mpq_class (Int16_Box y)
- BD_Shape_mpq_class (Int32_Box y)
- BD_Shape_mpq_class (Int64_Box y)
- BD_Shape_mpq_class (Uint8_Box y)
- BD_Shape_mpq_class (Uint16_Box y)
- BD_Shape_mpq_class (Uint32_Box y)
- BD_Shape_mpq_class (Uint64_Box y)
- BD_Shape_mpq_class (Z_Box y)
- BD_Shape_mpq_class (Rational_Box y)
- BD_Shape_mpq_class (BD_Shape_int8_t y)
- BD_Shape_mpq_class (BD_Shape_int16_t y)
- BD_Shape_mpq_class (BD_Shape_int32_t y)
- BD_Shape_mpq_class (BD_Shape_int64_t y)
- BD_Shape_mpq_class (BD_Shape_mpz_class y)
- BD_Shape_mpq_class (BD_Shape_mpq_class y)
- BD_Shape_mpq_class (Octagonal_Shape_int8_t y)
- BD_Shape_mpq_class (Octagonal_Shape_int16_t y)
- BD_Shape_mpq_class (Octagonal_Shape_int32_t y)
- BD_Shape_mpq_class (Octagonal_Shape_int64_t y)
- BD_Shape_mpq_class (Octagonal_Shape_mpz_class y)
- BD_Shape_mpq_class (Octagonal_Shape_mpq_class y)
- BD_Shape_mpq_class (C_Polyhedron y)
- BD_Shape_mpq_class (NNC_Polyhedron y)
- BD_Shape_mpq_class (Grid y)
- BD_Shape_mpq_class (Float_Box y)
- BD_Shape_mpq_class (BD_Shape_float y)
- BD_Shape_mpq_class (Octagonal_Shape_float y)
- BD_Shape_mpq_class (Double_Box y)
- BD_Shape_mpq_class (BD_Shape_double y)
- BD_Shape_mpq_class (Octagonal_Shape_double y)
- BD_Shape_mpq_class (Long_Double_Box y)
- BD_Shape_mpq_class (BD_Shape_long_double y)
- BD_Shape_mpq_class (Octagonal_Shape_long_double y)
- BD_Shape_mpq_class (Int8_Box y, Complexity_Class complexity)

- BD_Shape_mpq_class (Int16_Box y, Complexity_Class complexity)
- BD_Shape_mpq_class (Int32_Box y, Complexity_Class complexity)
- BD_Shape_mpq_class (Int64_Box y, Complexity_Class complexity)
- BD_Shape_mpq_class (Uint8_Box y, Complexity_Class complexity)
- BD_Shape_mpq_class (Uint16_Box y, Complexity_Class complexity)
- BD_Shape_mpq_class (Uint32_Box y, Complexity_Class complexity)
- BD_Shape_mpq_class (Uint64_Box y, Complexity_Class complexity)
- BD_Shape_mpq_class (Z_Box y, Complexity_Class complexity)
- BD_Shape_mpq_class (Rational_Box y, Complexity_Class complexity)
- BD_Shape_mpq_class (BD_Shape_int8_t y, Complexity_Class complexity)
- BD_Shape_mpq_class (BD_Shape_int16_t y, Complexity_Class complexity)
- BD_Shape_mpq_class (BD_Shape_int32_t y, Complexity_Class complexity)
- BD_Shape_mpq_class (BD_Shape_int64_t y, Complexity_Class complexity)
- BD_Shape_mpq_class (BD_Shape_mpz_class y, Complexity_Class complexity)
- BD_Shape_mpq_class (BD_Shape_mpq_class y, Complexity_Class complexity)
- BD_Shape_mpq_class (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- BD_Shape_mpq_class (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- BD_Shape_mpq_class (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- BD_Shape_mpq_class (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- BD_Shape_mpq_class (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- BD_Shape_mpq_class (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- BD_Shape_mpq_class (C_Polyhedron y, Complexity_Class complexity)
- BD_Shape_mpq_class (NNC_Polyhedron y, Complexity_Class complexity)
- BD_Shape_mpq_class (Grid y, Complexity_Class complexity)
- BD_Shape_mpq_class (Float_Box y, Complexity_Class complexity)
- BD_Shape_mpq_class (BD_Shape_float y, Complexity_Class complexity)
- BD_Shape_mpq_class (Octagonal_Shape_float y, Complexity_Class complexity)
- BD_Shape_mpq_class (Double_Box y, Complexity_Class complexity)
- BD_Shape_mpq_class (BD_Shape_double y, Complexity_Class complexity)
- BD_Shape_mpq_class (Octagonal_Shape_double y, Complexity_Class complexity)
- BD_Shape_mpq_class (Long_Double_Box y, Complexity_Class complexity)
- BD_Shape_mpq_class (BD_Shape_long_double y, Complexity_Class complexity)
- BD_Shape_mpq_class (Octagonal_Shape_long_double y, Complexity_Class complexity)
- BD_Shape_mpq_class (Constraint_System cs)
- BD_Shape_mpq_class (Congruence_System cs)
- BD_Shape_mpq_class (Generator_System cs)
- native void swap (BD_Shape_mpq_class y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()

- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (BD_Shape_mpq_class y)
- native boolean strictly_contains (BD_Shape_mpq_class y)
- native boolean is_disjoint_from (BD_Shape_mpq_class y)
- native boolean equals (BD_Shape_mpq_class p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (BD_Shape_mpq_class p)
- native void upper_bound_assign (BD_Shape_mpq_class p)
- native void difference_assign (BD_Shape_mpq_class p)
- native void concatenate_assign (BD_Shape_mpq_class p)
- native void time_elapse_assign (BD_Shape_mpq_class p)
- native boolean upper_bound_assign_if_exact (BD_Shape_mpq_class y)
- native boolean simplify_using_context_assign (BD_Shape_mpq_class p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)

- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void BHMZ05_widening_assign (BD_Shape_mpq_class y, By_Reference< Integer > tp)
- native void H79_widening_assign (BD_Shape_mpq_class y, By_Reference< Integer > tp)
- native void widening_assign (BD_Shape_mpq_class y, By_Reference< Integer > tp)
- native void limited_BHMZ05_extrapolation_assign (BD_Shape_mpq_class y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_H79_extrapolation_assign (BD_Shape_mpq_class y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (BD_Shape_mpq_class y, Constraint_System cs, By_Reference< Integer > tp)
- native void CC76_extrapolation_assign (BD_Shape_mpq_class arg, By_Reference< Integer > tp)
- native void CC76_narrowing_assign (BD_Shape_mpq_class arg)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_-Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native int hashCode ()
- native String toString ()

Static Public Member Functions

- static native Pair< BD_Shape_mpq_class, Pointset_Powerset_NNC_Polyhedron > linear_partition (BD_Shape_mpq_class p, BD_Shape_mpq_class q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- BD_Shape_mpq_class ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)

- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)

- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.10.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<mpq_class>

Definition at line 33 of file BD_Shape_mpq_class.java.

11.10.2 Constructor & Destructor Documentation

11.10.2.1 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.2 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class () [inline, private]

Definition at line 45 of file BD_Shape_mpq_class.java.

11.10.2.3 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Int8_Box *y*) [inline]

Definition at line 52 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.4 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Int16_Box *y*) [inline]

Definition at line 56 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.5 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Int32_Box *y*) [inline]

Definition at line 60 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.6 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Int64_Box *y*) [inline]

Definition at line 64 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.7 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Uint8_Box *y*) [inline]

Definition at line 68 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.8 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Uint16_Box *y*) [inline]

Definition at line 72 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.9 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Uint32_Box *y*) [inline]

Definition at line 76 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.10 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Uint64_Box *y*) [inline]

Definition at line 80 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.11 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Z_Box *y*) [inline]

Definition at line 84 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.12 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Rational_Box *y*) [inline]

Definition at line 88 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.13 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.14 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.15 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.16 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.17 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.18 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.19 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.20 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.21 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.22 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.23 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.24 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.25 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (C_Polyhedron *y*) [inline]

Definition at line 140 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.26 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.27 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Grid *y*) [inline]

Definition at line 148 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.28 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Float_Box *y*) [inline]

Definition at line 152 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.29 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (BD_Shape_float *y*) [inline]

Definition at line 156 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.30 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.31 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Double_Box *y*) [inline]

Definition at line 164 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.32 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (BD_Shape_double *y*) [inline]

Definition at line 168 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.33 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.34 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Long_Double_Box *y*) [inline]

Definition at line 176 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.35 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.36 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.37 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.38 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.39 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.40 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.41 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.42 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.43 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.44 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.45 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.46 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.47 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.48 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.49 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.50 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.51 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.52 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.53 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.54 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.55 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.56 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.57 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.58 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.59 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.60 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.61 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.62 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.63 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.64 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.65 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.66 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.67 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.68 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.69 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.70 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.71 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Constraint_System *cs*) [inline]

Definition at line 334 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.72 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Congruence_System *cs*) [inline]

Definition at line 338 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.2.73 parma_polyhedra_library::BD_Shape_mpq_class::BD_Shape_mpq_class (Generator_System *cs*) [inline]

Definition at line 342 of file BD_Shape_mpq_class.java.

References build_cpp_object().

11.10.3 Member Function Documentation

11.10.3.1 native void parma_polyhedra_library::BD_Shape_mpq_class::add_congruence (Congruence *c*)

11.10.3.2 native void parma_polyhedra_library::BD_Shape_mpq_class::add_congruences (Congruence_System *c*)

11.10.3.3 native void parma_polyhedra_library::BD_Shape_mpq_class::add_constraint (Constraint *c*)

11.10.3.4 native void parma_polyhedra_library::BD_Shape_mpq_class::add_constraints (Constraint_System *c*)

11.10.3.5 native void parma_polyhedra_library::BD_Shape_mpq_class::add_space_dimensions_and_embed (long *m*)

11.10.3.6 native void parma_polyhedra_library::BD_Shape_mpq_class::add_space_dimensions_and_project (long *m*)

11.10.3.7 native long parma_polyhedra_library::BD_Shape_mpq_class::affine_dimension ()

11.10.3.8 native void parma_polyhedra_library::BD_Shape_mpq_class::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.10.3.9 native void parma_polyhedra_library::BD_Shape_mpq_class::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.10.3.10 native String parma_polyhedra_library::BD_Shape_mpq_class::ascii_dump ()

11.10.3.11 native void parma_polyhedra_library::BD_Shape_mpq_class::BHMZ05_widening_assign (BD_Shape_mpq_class *y*, By_Reference< Integer > *tp*)

11.10.3.12 native void parma_polyhedra_library::BD_Shape_mpq_class::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.10.3.13 native void parma_polyhedra_library::BD_Shape_mpq_class::bounded_affine_-preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.10.3.14 native boolean parma_polyhedra_library::BD_Shape_mpq_class::bounds_from_above (Linear_Expression *expr*)

11.10.3.15 native boolean parma_polyhedra_library::BD_Shape_mpq_class::bounds_from_below (Linear_Expression *expr*)

11.10.3.16 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.10.3.17 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.10.3.18 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.10.3.19 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (BD_Shape_long_double *y*) `[private]`

11.10.3.20 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) `[private]`

11.10.3.21 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Long_Double_Box *y*) `[private]`

11.10.3.22 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.10.3.23 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.10.3.24 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.10.3.25 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (BD_Shape_double *y*) [private]

11.10.3.26 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.10.3.27 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Double_Box *y*) [private]

11.10.3.28 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.10.3.29 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.10.3.30 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.10.3.31 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (BD_Shape_float *y*) [private]

11.10.3.32 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.10.3.33 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Float_Box *y*) [private]

11.10.3.34 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.10.3.35 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Grid *y*) [private]

11.10.3.36 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.10.3.37 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (NNC_Polyhedron *y*) [private]

11.10.3.38 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.10.3.39 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (C_Polyhedron *y*) [private]

11.10.3.40 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.10.3.41 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.10.3.42 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.10.3.43 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.10.3.44 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.10.3.45 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.10.3.46 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.10.3.47 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.10.3.48 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.10.3.49 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.10.3.50 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.10.3.51 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.10.3.52 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.10.3.53 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.10.3.54 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.10.3.55 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.10.3.56 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.10.3.57 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.10.3.58 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.10.3.59 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.10.3.60 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.10.3.61 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.10.3.62 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.10.3.63 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.10.3.64 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.10.3.65 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Rational_Box *y*) [private]

11.10.3.66 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.10.3.67 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Z_Box *y*) [private]

11.10.3.68 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.10.3.69 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Uint64_Box *y*) [private]

11.10.3.70 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.10.3.71 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Uint32_Box *y*) [private]

11.10.3.72 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.10.3.73 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Uint16_Box *y*) [private]

11.10.3.74 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.10.3.75 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Uint8_Box *y*) [private]

11.10.3.76 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.10.3.77 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Int64_Box *y*) [private]

11.10.3.78 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.10.3.79 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Int32_Box *y*) [private]

11.10.3.80 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.10.3.81 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Int16_Box *y*) [private]

11.10.3.82 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.10.3.83 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Int8_Box *y*) [private]

11.10.3.84 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.10.3.85 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Generator_System *cs*) [private]

11.10.3.86 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Congruence_System *cs*) [private]

11.10.3.87 native void parma_polyhedra_library::BD_Shape_mpq_class::build_cpp_object (Constraint_System *cs*) [private]

Referenced by BD_Shape_mpq_class().

11.10.3.88 native void parma_polyhedra_library::BD_Shape_mpq_class::CC76_-extrapolation_assign (BD_Shape_mpq_class *arg*, By_Reference< Integer > *tp*)

11.10.3.89 native void parma_polyhedra_library::BD_Shape_mpq_class::CC76_narrowing_-assign (BD_Shape_mpq_class *arg*)

11.10.3.90 native void parma_polyhedra_library::BD_Shape_mpq_class::concatenate_assign (BD_Shape_mpq_class *p*)

11.10.3.91 native Congruence_System parma_polyhedra_library::BD_Shape_mpq_-class::congruences ()

11.10.3.92 native boolean parma_polyhedra_library::BD_Shape_mpq_class::constrains (Variable *var*)

11.10.3.93 native Constraint_System parma_polyhedra_library::BD_Shape_mpq_-class::constraints ()

11.10.3.94 native boolean parma_polyhedra_library::BD_Shape_mpq_class::contains (BD_Shape_mpq_class *y*)

11.10.3.95 native boolean parma_polyhedra_library::BD_Shape_mpq_class::contains_integer_point ()

11.10.3.96 native void parma_polyhedra_library::BD_Shape_mpq_class::difference_assign (BD_Shape_mpq_class *p*)

11.10.3.97 native void parma_polyhedra_library::BD_Shape_mpq_class::drop_some_non_integer_points (Integer *complexity_threshold*)

11.10.3.98 native void parma_polyhedra_library::BD_Shape_mpq_class::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.10.3.99 boolean parma_polyhedra_library::BD_Shape_mpq_class::equals (Object *y*) `[inline]`

Definition at line 465 of file BD_Shape_mpq_class.java.

References equals().

11.10.3.100 native boolean parma_polyhedra_library::BD_Shape_mpq_class::equals (BD_Shape_mpq_class *p*)

Referenced by equals().

11.10.3.101 native void parma_polyhedra_library::BD_Shape_mpq_class::expand_space_dimension (Variable *var*, long *m*)

11.10.3.102 native long parma_polyhedra_library::BD_Shape_mpq_class::external_memory_in_bytes ()

11.10.3.103 native void parma_polyhedra_library::BD_Shape_mpq_class::finalize () [protected]

11.10.3.104 native void parma_polyhedra_library::BD_Shape_mpq_class::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.10.3.105 native void parma_polyhedra_library::BD_Shape_mpq_class::free ()

11.10.3.106 native boolean parma_polyhedra_library::BD_Shape_mpq_class::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.10.3.107 native void parma_polyhedra_library::BD_Shape_mpq_class::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.10.3.108 native void parma_polyhedra_library::BD_Shape_mpq_class::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.10.3.109 native void parma_polyhedra_library::BD_Shape_mpq_class::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.10.3.110 native void parma_polyhedra_library::BD_Shape_mpq_class::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.10.3.111 native void parma_polyhedra_library::BD_Shape_mpq_class::H79_widening_assign (BD_Shape_mpq_class *y*, By_Reference< Integer > *tp*)

11.10.3.112 native int parma_polyhedra_library::BD_Shape_mpq_class::hashCode ()

11.10.3.113 native void parma_polyhedra_library::BD_Shape_mpq_class::intersection_assign (BD_Shape_mpq_class *p*)

11.10.3.114 native boolean parma_polyhedra_library::BD_Shape_mpq_class::is_bounded ()

11.10.3.115 native boolean parma_polyhedra_library::BD_Shape_mpq_class::is_discrete ()

11.10.3.116 native boolean parma_polyhedra_library::BD_Shape_mpq_class::is_disjoint_from (BD_Shape_mpq_class *y*)

11.10.3.117 native boolean parma_polyhedra_library::BD_Shape_mpq_class::is_empty ()

11.10.3.118 native boolean parma_polyhedra_library::BD_Shape_mpq_class::is_topologically_closed ()

11.10.3.119 native boolean parma_polyhedra_library::BD_Shape_mpq_class::is_universe ()

11.10.3.120 native void parma_polyhedra_library::BD_Shape_mpq_class::limited_BHMZ05_extrapolation_assign (BD_Shape_mpq_class *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.10.3.121 native void parma_polyhedra_library::BD_Shape_mpq_class::limited_CC76_extrapolation_assign (BD_Shape_mpq_class *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.10.3.122 native void parma_polyhedra_library::BD_Shape_mpq_class::limited_H79_extrapolation_assign (BD_Shape_mpq_class *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.10.3.123 static native Pair<BD_Shape_mpq_class, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::BD_Shape_mpq_class::linear_partition (BD_Shape_mpq_class *p*, BD_Shape_mpq_class *q*) `[static]`

11.10.3.124 native void parma_polyhedra_library::BD_Shape_mpq_class::map_space_dimensions (Partial_Function *pfunc*)

11.10.3.125 native boolean parma_polyhedra_library::BD_Shape_mpq_class::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.10.3.126 native boolean parma_polyhedra_library::BD_Shape_mpq_class::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.10.3.127 native boolean parma_polyhedra_library::BD_Shape_mpq_class::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.10.3.128 native boolean parma_polyhedra_library::BD_Shape_mpq_class::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.10.3.129 native Congruence_System parma_polyhedra_library::BD_Shape_mpq_class::minimized_congruences ()

11.10.3.130 native Constraint_System parma_polyhedra_library::BD_Shape_mpq_class::minimized_constraints ()

11.10.3.131 native boolean parma_polyhedra_library::BD_Shape_mpq_class::OK ()

11.10.3.132 native void parma_polyhedra_library::BD_Shape_mpq_class::refine_with_congruence (Congruence *c*)

11.10.3.133 native void parma_polyhedra_library::BD_Shape_mpq_class::refine_with_congruences (Congruence_System *c*)

11.10.3.134 native void parma_polyhedra_library::BD_Shape_mpq_class::refine_with_constraint (Constraint *c*)

11.10.3.135 native void parma_polyhedra_library::BD_Shape_mpq_class::refine_with_constraints (Constraint_System *c*)

11.10.3.136 native Poly_Con_Relation parma_polyhedra_library::BD_Shape_mpq_class::relation_with (Congruence *c*)

11.10.3.137 native Poly_Gen_Relation parma_polyhedra_library::BD_Shape_mpq_class::relation_with (Generator *c*)

11.10.3.138 native Poly_Con_Relation parma_polyhedra_library::BD_Shape_mpq_class::relation_with (Constraint *c*)

11.10.3.139 native void parma_polyhedra_library::BD_Shape_mpq_class::remove_higher_space_dimensions (long *new_dimension*)

11.10.3.140 native void parma_polyhedra_library::BD_Shape_mpq_class::remove_space_-dimensions (Variables_Set *vars*)

11.10.3.141 native boolean parma_polyhedra_library::BD_Shape_mpq_class::simplify_using_-context_assign (BD_Shape_mpq_class *p*)

11.10.3.142 native long parma_polyhedra_library::BD_Shape_mpq_class::space_dimension ()

11.10.3.143 native boolean parma_polyhedra_library::BD_Shape_mpq_class::strictly_contains (BD_Shape_mpq_class *y*)

11.10.3.144 native void parma_polyhedra_library::BD_Shape_mpq_class::swap (BD_Shape_mpq_class *y*)

11.10.3.145 native void parma_polyhedra_library::BD_Shape_mpq_class::time_elapse_assign (BD_Shape_mpq_class *p*)

11.10.3.146 native void parma_polyhedra_library::BD_Shape_mpq_class::topological_closure_-assign ()

11.10.3.147 native String parma_polyhedra_library::BD_Shape_mpq_class::toString ()

11.10.3.148 native long parma_polyhedra_library::BD_Shape_mpq_class::total_memory_in_-bytes ()

11.10.3.149 native void parma_polyhedra_library::BD_Shape_mpq_class::unconstrain_space_-dimension (Variable *var*)

11.10.3.150 native void parma_polyhedra_library::BD_Shape_mpq_class::unconstrain_space_dimensions (Variables_Set *vars*)

11.10.3.151 native void parma_polyhedra_library::BD_Shape_mpq_class::upper_bound_assign (BD_Shape_mpq_class *p*)

11.10.3.152 native boolean parma_polyhedra_library::BD_Shape_mpq_class::upper_bound_assign_if_exact (BD_Shape_mpq_class *y*)

11.10.3.153 native void parma_polyhedra_library::BD_Shape_mpq_class::widening_assign (BD_Shape_mpq_class *y*, By_Reference< Integer > *tp*)

11.10.3.154 native void parma_polyhedra_library::BD_Shape_mpq_class::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

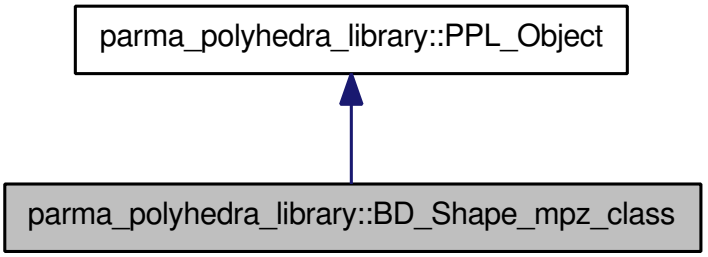
The documentation for this class was generated from the following file:

- BD_Shape_mpq_class.java

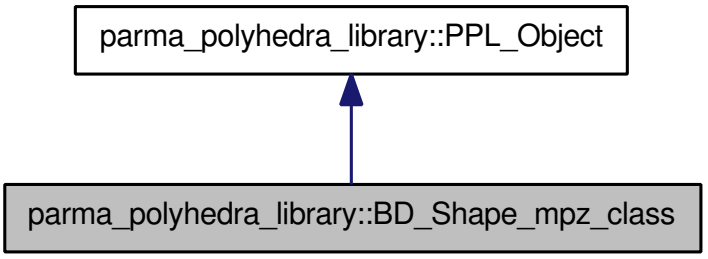
11.11 parma_polyhedra_library::BD_Shape_mpz_class Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<mpz_class>

Inheritance diagram for parma_polyhedra_library::BD_Shape_mpz_class:



Collaboration diagram for parma_polyhedra_library::BD_Shape_mpz_class:



Public Member Functions

- BD_Shape_mpz_class (long num_dimensions, Degenerate_Element kind)
- BD_Shape_mpz_class (Int8_Box y)
- BD_Shape_mpz_class (Int16_Box y)
- BD_Shape_mpz_class (Int32_Box y)
- BD_Shape_mpz_class (Int64_Box y)
- BD_Shape_mpz_class (Uint8_Box y)
- BD_Shape_mpz_class (Uint16_Box y)
- BD_Shape_mpz_class (Uint32_Box y)
- BD_Shape_mpz_class (Uint64_Box y)
- BD_Shape_mpz_class (Z_Box y)
- BD_Shape_mpz_class (Rational_Box y)
- BD_Shape_mpz_class (BD_Shape_int8_t y)
- BD_Shape_mpz_class (BD_Shape_int16_t y)
- BD_Shape_mpz_class (BD_Shape_int32_t y)
- BD_Shape_mpz_class (BD_Shape_int64_t y)
- BD_Shape_mpz_class (BD_Shape_mpz_class y)
- BD_Shape_mpz_class (BD_Shape_mpq_class y)
- BD_Shape_mpz_class (Octagonal_Shape_int8_t y)
- BD_Shape_mpz_class (Octagonal_Shape_int16_t y)
- BD_Shape_mpz_class (Octagonal_Shape_int32_t y)
- BD_Shape_mpz_class (Octagonal_Shape_int64_t y)
- BD_Shape_mpz_class (Octagonal_Shape_mpz_class y)
- BD_Shape_mpz_class (Octagonal_Shape_mpq_class y)
- BD_Shape_mpz_class (C_Polyhedron y)
- BD_Shape_mpz_class (NNC_Polyhedron y)
- BD_Shape_mpz_class (Grid y)
- BD_Shape_mpz_class (Float_Box y)
- BD_Shape_mpz_class (BD_Shape_float y)
- BD_Shape_mpz_class (Octagonal_Shape_float y)
- BD_Shape_mpz_class (Double_Box y)
- BD_Shape_mpz_class (BD_Shape_double y)
- BD_Shape_mpz_class (Octagonal_Shape_double y)
- BD_Shape_mpz_class (Long_Double_Box y)
- BD_Shape_mpz_class (BD_Shape_long_double y)
- BD_Shape_mpz_class (Octagonal_Shape_long_double y)
- BD_Shape_mpz_class (Int8_Box y, Complexity_Class complexity)

- BD_Shape_mpz_class (Int16_Box y, Complexity_Class complexity)
- BD_Shape_mpz_class (Int32_Box y, Complexity_Class complexity)
- BD_Shape_mpz_class (Int64_Box y, Complexity_Class complexity)
- BD_Shape_mpz_class (Uint8_Box y, Complexity_Class complexity)
- BD_Shape_mpz_class (Uint16_Box y, Complexity_Class complexity)
- BD_Shape_mpz_class (Uint32_Box y, Complexity_Class complexity)
- BD_Shape_mpz_class (Uint64_Box y, Complexity_Class complexity)
- BD_Shape_mpz_class (Z_Box y, Complexity_Class complexity)
- BD_Shape_mpz_class (Rational_Box y, Complexity_Class complexity)
- BD_Shape_mpz_class (BD_Shape_int8_t y, Complexity_Class complexity)
- BD_Shape_mpz_class (BD_Shape_int16_t y, Complexity_Class complexity)
- BD_Shape_mpz_class (BD_Shape_int32_t y, Complexity_Class complexity)
- BD_Shape_mpz_class (BD_Shape_int64_t y, Complexity_Class complexity)
- BD_Shape_mpz_class (BD_Shape_mpz_class y, Complexity_Class complexity)
- BD_Shape_mpz_class (BD_Shape_mpq_class y, Complexity_Class complexity)
- BD_Shape_mpz_class (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- BD_Shape_mpz_class (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- BD_Shape_mpz_class (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- BD_Shape_mpz_class (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- BD_Shape_mpz_class (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- BD_Shape_mpz_class (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- BD_Shape_mpz_class (C_Polyhedron y, Complexity_Class complexity)
- BD_Shape_mpz_class (NNC_Polyhedron y, Complexity_Class complexity)
- BD_Shape_mpz_class (Grid y, Complexity_Class complexity)
- BD_Shape_mpz_class (Float_Box y, Complexity_Class complexity)
- BD_Shape_mpz_class (BD_Shape_float y, Complexity_Class complexity)
- BD_Shape_mpz_class (Octagonal_Shape_float y, Complexity_Class complexity)
- BD_Shape_mpz_class (Double_Box y, Complexity_Class complexity)
- BD_Shape_mpz_class (BD_Shape_double y, Complexity_Class complexity)
- BD_Shape_mpz_class (Octagonal_Shape_double y, Complexity_Class complexity)
- BD_Shape_mpz_class (Long_Double_Box y, Complexity_Class complexity)
- BD_Shape_mpz_class (BD_Shape_long_double y, Complexity_Class complexity)
- BD_Shape_mpz_class (Octagonal_Shape_long_double y, Complexity_Class complexity)
- BD_Shape_mpz_class (Constraint_System cs)
- BD_Shape_mpz_class (Congruence_System cs)
- BD_Shape_mpz_class (Generator_System cs)
- native void swap (BD_Shape_mpz_class y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()

- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (BD_Shape_mpz_class y)
- native boolean strictly_contains (BD_Shape_mpz_class y)
- native boolean is_disjoint_from (BD_Shape_mpz_class y)
- native boolean equals (BD_Shape_mpz_class p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (BD_Shape_mpz_class p)
- native void upper_bound_assign (BD_Shape_mpz_class p)
- native void difference_assign (BD_Shape_mpz_class p)
- native void concatenate_assign (BD_Shape_mpz_class p)
- native void time_elapse_assign (BD_Shape_mpz_class p)
- native boolean upper_bound_assign_if_exact (BD_Shape_mpz_class y)
- native boolean simplify_using_context_assign (BD_Shape_mpz_class p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)

- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void BHMZ05_widening_assign (BD_Shape_mpz_class y, By_Reference< Integer > tp)
- native void H79_widening_assign (BD_Shape_mpz_class y, By_Reference< Integer > tp)
- native void widening_assign (BD_Shape_mpz_class y, By_Reference< Integer > tp)
- native void limited_BHMZ05_extrapolation_assign (BD_Shape_mpz_class y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_H79_extrapolation_assign (BD_Shape_mpz_class y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (BD_Shape_mpz_class y, Constraint_System cs, By_Reference< Integer > tp)
- native void CC76_extrapolation_assign (BD_Shape_mpz_class arg, By_Reference< Integer > tp)
- native void CC76_narrowing_assign (BD_Shape_mpz_class arg)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native int hashCode ()
- native String toString ()

Static Public Member Functions

- static native Pair< BD_Shape_mpz_class, Pointset_Powerset_NNC_Polyhedron > linear_partition (BD_Shape_mpz_class p, BD_Shape_mpz_class q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- BD_Shape_mpz_class ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)

- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)

- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.11.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<mpz_class>

Definition at line 33 of file BD_Shape_mpz_class.java.

11.11.2 Constructor & Destructor Documentation

11.11.2.1 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.2 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class () [inline, private]

Definition at line 45 of file BD_Shape_mpz_class.java.

11.11.2.3 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Int8_Box *y*) [inline]

Definition at line 52 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.4 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Int16_Box *y*) [inline]

Definition at line 56 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.5 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Int32_Box *y*) [inline]

Definition at line 60 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.6 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Int64_Box *y*) [inline]

Definition at line 64 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.7 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Uint8_Box *y*) [inline]

Definition at line 68 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.8 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Uint16_Box *y*) [inline]

Definition at line 72 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.9 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Uint32_Box *y*) [inline]

Definition at line 76 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.10 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Uint64_Box *y*) [inline]

Definition at line 80 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.11 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Z_Box *y*) [inline]

Definition at line 84 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.12 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Rational_Box *y*) [inline]

Definition at line 88 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.13 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.14 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.15 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.16 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.17 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.18 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.19 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.20 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.21 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.22 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.23 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.24 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.25 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (C_Polyhedron *y*) [inline]

Definition at line 140 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.26 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.27 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Grid *y*) [inline]

Definition at line 148 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.28 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Float_Box *y*) [inline]

Definition at line 152 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.29 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (BD_Shape_float *y*) [inline]

Definition at line 156 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.30 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.31 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Double_Box *y*) [inline]

Definition at line 164 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.32 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (BD_Shape_double *y*) [inline]

Definition at line 168 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.33 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.34 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Long_Double_Box *y*) [inline]

Definition at line 176 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.35 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.36 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.37 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.38 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.39 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.40 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.41 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.42 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.43 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.44 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.45 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.46 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.47 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.48 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.49 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.50 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.51 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.52 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.53 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.54 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.55 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.56 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.57 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.58 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.59 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.60 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.61 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.62 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.63 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.64 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.65 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.66 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.67 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.68 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.69 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.70 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.71 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Constraint_System *cs*) [inline]

Definition at line 334 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.72 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Congruence_System *cs*) [inline]

Definition at line 338 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.2.73 parma_polyhedra_library::BD_Shape_mpz_class::BD_Shape_mpz_class (Generator_System *cs*) [inline]

Definition at line 342 of file BD_Shape_mpz_class.java.

References build_cpp_object().

11.11.3 Member Function Documentation

11.11.3.1 native void parma_polyhedra_library::BD_Shape_mpz_class::add_congruence (Congruence *c*)

11.11.3.2 native void parma_polyhedra_library::BD_Shape_mpz_class::add_congruences (Congruence_System *c*)

11.11.3.3 native void parma_polyhedra_library::BD_Shape_mpz_class::add_constraint (Constraint *c*)

11.11.3.4 native void parma_polyhedra_library::BD_Shape_mpz_class::add_constraints (Constraint_System *c*)

11.11.3.5 native void parma_polyhedra_library::BD_Shape_mpz_class::add_space_dimensions_and_embed (long *m*)

11.11.3.6 native void parma_polyhedra_library::BD_Shape_mpz_class::add_space_dimensions_and_project (long *m*)

11.11.3.7 native long parma_polyhedra_library::BD_Shape_mpz_class::affine_dimension ()

11.11.3.8 native void parma_polyhedra_library::BD_Shape_mpz_class::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.11.3.9 native void parma_polyhedra_library::BD_Shape_mpz_class::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.11.3.10 native String parma_polyhedra_library::BD_Shape_mpz_class::ascii_dump ()

11.11.3.11 native void parma_polyhedra_library::BD_Shape_mpz_class::BHMZ05_widening_assign (BD_Shape_mpz_class *y*, By_Reference< Integer > *tp*)

11.11.3.12 native void parma_polyhedra_library::BD_Shape_mpz_class::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.11.3.13 native void parma_polyhedra_library::BD_Shape_mpz_class::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.11.3.14 native boolean parma_polyhedra_library::BD_Shape_mpz_class::bounds_from_above (Linear_Expression *expr*)

11.11.3.15 native boolean parma_polyhedra_library::BD_Shape_mpz_class::bounds_from_below (Linear_Expression *expr*)

11.11.3.16 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.11.3.17 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.11.3.18 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.11.3.19 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (BD_Shape_long_double *y*) `[private]`

11.11.3.20 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) `[private]`

11.11.3.21 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Long_Double_Box *y*) `[private]`

11.11.3.22 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.11.3.23 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.11.3.24 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.11.3.25 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (BD_Shape_double *y*) [private]

11.11.3.26 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.11.3.27 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Double_Box *y*) [private]

11.11.3.28 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.11.3.29 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.11.3.30 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.11.3.31 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (BD_Shape_float *y*) [private]

11.11.3.32 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.11.3.33 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Float_Box *y*) [private]

11.11.3.34 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.11.3.35 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Grid *y*) [private]

11.11.3.36 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.11.3.37 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (NNC_Polyhedron *y*) [private]

11.11.3.38 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.11.3.39 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (C_Polyhedron *y*) [private]

11.11.3.40 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.11.3.41 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.11.3.42 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.11.3.43 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.11.3.44 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.11.3.45 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.11.3.46 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.11.3.47 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.11.3.48 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.11.3.49 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.11.3.50 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.11.3.51 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.11.3.52 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.11.3.53 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.11.3.54 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.11.3.55 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.11.3.56 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.11.3.57 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.11.3.58 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.11.3.59 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.11.3.60 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.11.3.61 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.11.3.62 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.11.3.63 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.11.3.64 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.11.3.65 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Rational_Box *y*) [private]

11.11.3.66 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.11.3.67 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Z_Box *y*) [private]

11.11.3.68 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.11.3.69 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Uint64_Box *y*) [private]

11.11.3.70 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.11.3.71 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Uint32_Box *y*) [private]

11.11.3.72 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.11.3.73 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Uint16_Box *y*) [private]

11.11.3.74 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.11.3.75 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Uint8_Box *y*) [private]

11.11.3.76 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.11.3.77 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Int64_Box *y*) [private]

11.11.3.78 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.11.3.79 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Int32_Box *y*) [private]

11.11.3.80 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.11.3.81 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Int16_Box *y*) [private]

11.11.3.82 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.11.3.83 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Int8_Box *y*) [private]

11.11.3.84 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.11.3.85 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Generator_System *cs*) [private]

11.11.3.86 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Congruence_System *cs*) [private]

11.11.3.87 native void parma_polyhedra_library::BD_Shape_mpz_class::build_cpp_object (Constraint_System *cs*) [private]

Referenced by BD_Shape_mpz_class().

11.11.3.88 native void parma_polyhedra_library::BD_Shape_mpz_class::CC76_-extrapolation_assign (BD_Shape_mpz_class *arg*, By_Reference< Integer > *tp*)

11.11.3.89 native void parma_polyhedra_library::BD_Shape_mpz_class::CC76_narrowing_assign (BD_Shape_mpz_class *arg*)

11.11.3.90 native void parma_polyhedra_library::BD_Shape_mpz_class::concatenate_assign (BD_Shape_mpz_class *p*)

11.11.3.91 native Congruence_System parma_polyhedra_library::BD_Shape_mpz_-class::congruences ()

11.11.3.92 native boolean parma_polyhedra_library::BD_Shape_mpz_class::constrains (Variable *var*)

11.11.3.93 native Constraint_System parma_polyhedra_library::BD_Shape_mpz_-class::constraints ()

11.11.3.94 native boolean parma_polyhedra_library::BD_Shape_mpz_class::contains (BD_Shape_mpz_class *y*)

11.11.3.95 native boolean parma_polyhedra_library::BD_Shape_mpz_class::contains_integer_point ()

11.11.3.96 native void parma_polyhedra_library::BD_Shape_mpz_class::difference_assign (BD_Shape_mpz_class *p*)

11.11.3.97 native void parma_polyhedra_library::BD_Shape_mpz_class::drop_some_non_integer_points (Integer *complexity_threshold*)

11.11.3.98 native void parma_polyhedra_library::BD_Shape_mpz_class::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.11.3.99 boolean parma_polyhedra_library::BD_Shape_mpz_class::equals (Object *y*) `[inline]`

Definition at line 465 of file BD_Shape_mpz_class.java.

References equals().

11.11.3.100 native boolean parma_polyhedra_library::BD_Shape_mpz_class::equals (BD_Shape_mpz_class *p*)

Referenced by equals().

11.11.3.101 native void parma_polyhedra_library::BD_Shape_mpz_class::expand_space_dimension (Variable *var*, long *m*)

11.11.3.102 native long parma_polyhedra_library::BD_Shape_mpz_class::external_memory_in_bytes ()

11.11.3.103 native void parma_polyhedra_library::BD_Shape_mpz_class::finalize () [protected]

11.11.3.104 native void parma_polyhedra_library::BD_Shape_mpz_class::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.11.3.105 native void parma_polyhedra_library::BD_Shape_mpz_class::free ()

11.11.3.106 native boolean parma_polyhedra_library::BD_Shape_mpz_class::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.11.3.107 native void parma_polyhedra_library::BD_Shape_mpz_class::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.11.3.108 native void parma_polyhedra_library::BD_Shape_mpz_class::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.11.3.109 native void parma_polyhedra_library::BD_Shape_mpz_class::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.11.3.110 native void parma_polyhedra_library::BD_Shape_mpz_class::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.11.3.111 native void parma_polyhedra_library::BD_Shape_mpz_class::H79_widening_assign (BD_Shape_mpz_class *y*, By_Reference< Integer > *tp*)

11.11.3.112 native int parma_polyhedra_library::BD_Shape_mpz_class::hashCode ()

11.11.3.113 native void parma_polyhedra_library::BD_Shape_mpz_class::intersection_assign (BD_Shape_mpz_class *p*)

11.11.3.114 native boolean parma_polyhedra_library::BD_Shape_mpz_class::is_bounded ()

11.11.3.115 native boolean parma_polyhedra_library::BD_Shape_mpz_class::is_discrete ()

11.11.3.116 native boolean parma_polyhedra_library::BD_Shape_mpz_class::is_disjoint_from (BD_Shape_mpz_class *y*)

11.11.3.117 native boolean parma_polyhedra_library::BD_Shape_mpz_class::is_empty ()

11.11.3.118 native boolean parma_polyhedra_library::BD_Shape_mpz_class::is_topologically_closed ()

11.11.3.119 native boolean parma_polyhedra_library::BD_Shape_mpz_class::is_universe ()

11.11.3.120 native void parma_polyhedra_library::BD_Shape_mpz_class::limited_BHMZ05_extrapolation_assign (BD_Shape_mpz_class *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.11.3.121 native void parma_polyhedra_library::BD_Shape_mpz_class::limited_CC76_extrapolation_assign (BD_Shape_mpz_class *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.11.3.122 native void parma_polyhedra_library::BD_Shape_mpz_class::limited_-H79_extrapolation_assign (BD_Shape_mpz_class *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.11.3.123 static native Pair<BD_Shape_mpz_class, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::BD_Shape_mpz_class::linear_partition (BD_Shape_mpz_class *p*, BD_Shape_mpz_class *q*) `[static]`

11.11.3.124 native void parma_polyhedra_library::BD_Shape_mpz_class::map_space_dimensions (Partial_Function *pfunc*)

11.11.3.125 native boolean parma_polyhedra_library::BD_Shape_mpz_class::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.11.3.126 native boolean parma_polyhedra_library::BD_Shape_mpz_class::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.11.3.127 native boolean parma_polyhedra_library::BD_Shape_mpz_class::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.11.3.128 native boolean parma_polyhedra_library::BD_Shape_mpz_class::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.11.3.129 native Congruence_System parma_polyhedra_library::BD_Shape_mpz_-class::minimized_congruences ()

11.11.3.130 native Constraint_System parma_polyhedra_library::BD_Shape_mpz_class::minimized_constraints ()

11.11.3.131 native boolean parma_polyhedra_library::BD_Shape_mpz_class::OK ()

11.11.3.132 native void parma_polyhedra_library::BD_Shape_mpz_class::refine_with_congruence (Congruence *c*)

11.11.3.133 native void parma_polyhedra_library::BD_Shape_mpz_class::refine_with_congruences (Congruence_System *c*)

11.11.3.134 native void parma_polyhedra_library::BD_Shape_mpz_class::refine_with_constraint (Constraint *c*)

11.11.3.135 native void parma_polyhedra_library::BD_Shape_mpz_class::refine_with_constraints (Constraint_System *c*)

11.11.3.136 native Poly_Con_Relation parma_polyhedra_library::BD_Shape_mpz_class::relation_with (Congruence *c*)

11.11.3.137 native Poly_Gen_Relation parma_polyhedra_library::BD_Shape_mpz_class::relation_with (Generator *c*)

11.11.3.138 native Poly_Con_Relation parma_polyhedra_library::BD_Shape_mpz_class::relation_with (Constraint *c*)

11.11.3.139 native void parma_polyhedra_library::BD_Shape_mpz_class::remove_higher_space_dimensions (long *new_dimension*)

11.11.3.140 native void parma_polyhedra_library::BD_Shape_mpz_class::remove_space_dimensions (Variables_Set *vars*)

11.11.3.141 native boolean parma_polyhedra_library::BD_Shape_mpz_class::simplify_using_context_assign (BD_Shape_mpz_class *p*)

11.11.3.142 native long parma_polyhedra_library::BD_Shape_mpz_class::space_dimension ()

11.11.3.143 native boolean parma_polyhedra_library::BD_Shape_mpz_class::strictly_contains (BD_Shape_mpz_class *y*)

11.11.3.144 native void parma_polyhedra_library::BD_Shape_mpz_class::swap (BD_Shape_mpz_class *y*)

11.11.3.145 native void parma_polyhedra_library::BD_Shape_mpz_class::time_elapse_assign (BD_Shape_mpz_class *p*)

11.11.3.146 native void parma_polyhedra_library::BD_Shape_mpz_class::topological_closure_assign ()

11.11.3.147 native String parma_polyhedra_library::BD_Shape_mpz_class::toString ()

11.11.3.148 native long parma_polyhedra_library::BD_Shape_mpz_class::total_memory_in_bytes ()

11.11.3.149 native void parma_polyhedra_library::BD_Shape_mpz_class::unconstrain_space_dimension (Variable *var*)

11.11.3.150 native void parma_polyhedra_library::BD_Shape_mpz_class::unconstrain_space_dimensions (Variables_Set *vars*)

11.11.3.151 native void parma_polyhedra_library::BD_Shape_mpz_class::upper_bound_assign (BD_Shape_mpz_class *p*)

11.11.3.152 native boolean parma_polyhedra_library::BD_Shape_mpz_class::upper_bound_assign_if_exact (BD_Shape_mpz_class *y*)

11.11.3.153 native void parma_polyhedra_library::BD_Shape_mpz_class::widening_assign (BD_Shape_mpz_class *y*, By_Reference< Integer > *tp*)

11.11.3.154 native void parma_polyhedra_library::BD_Shape_mpz_class::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

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

- BD_Shape_mpz_class.java

11.12 parma_polyhedra_library::By_Reference< T > Class Reference

An utility class implementing mutable and non-mutable call-by-reference.

Public Member Functions

- By_Reference (T object_value)

  Builds an object encapsulating `object_value`.

- void set (T y)

  Set an object to value `object_value`.

- T get ()

  Returns the value held by `this`.

Static Package Functions

- [static initializer]

Package Attributes

- T obj

  Stores the object.

Static Private Member Functions

- static native void initIDs ()

11.12.1 Detailed Description

An utility class implementing mutable and non-mutable call-by-reference.

Definition at line 28 of file By_Reference.java.

11.12.2 Constructor & Destructor Documentation

11.12.2.1 parma_polyhedra_library::By_Reference< T >::By_Reference (T *object_value*) [inline]

Builds an object encapsulating `object_value`.

Definition at line 33 of file By_Reference.java.

11.12.3 Member Function Documentation

11.12.3.1 parma_polyhedra_library::By_Reference< T >::[static initializer] () [inline, static, package]

11.12.3.2 T parma_polyhedra_library::By_Reference< T >::get () [inline]

Returns the value held by `this`.

Definition at line 43 of file By_Reference.java.

11.12.3.3 static native void parma_polyhedra_library::By_Reference< T >::initIDs () [static, private]

11.12.3.4 void parma_polyhedra_library::By_Reference< T >::set (T *y*) [inline]

Set an object to value `object_value`.

Definition at line 38 of file By_Reference.java.

11.12.4 Member Data Documentation

11.12.4.1 T parma_polyhedra_library::By_Reference< T >::obj [package]

Stores the object.

Definition at line 30 of file By_Reference.java.

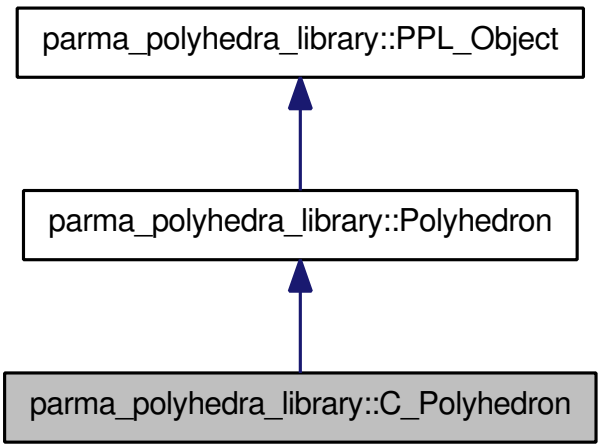
The documentation for this class was generated from the following file:

- By_Reference.java

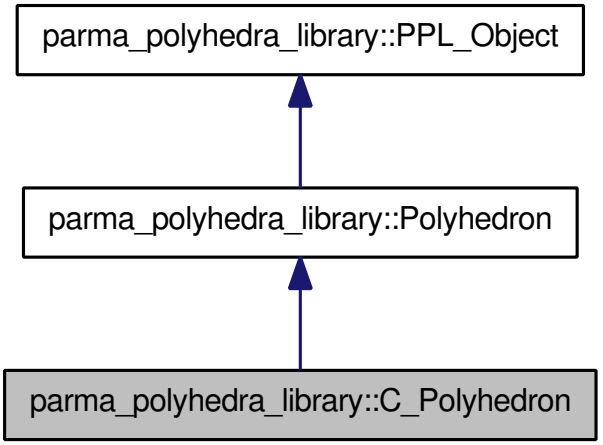
11.13 parma_polyhedra_library::C_Polyhedron Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::C_Polyhedron.

Inheritance diagram for parma_polyhedra_library::C_Polyhedron:



Collaboration diagram for parma_polyhedra_library::C_Polyhedron:



Public Member Functions

- C_Polyhedron (long num_dimensions, Degenerate_Element kind)
- C_Polyhedron (Int8_Box y)
- C_Polyhedron (Int16_Box y)
- C_Polyhedron (Int32_Box y)
- C_Polyhedron (Int64_Box y)
- C_Polyhedron (Uint8_Box y)
- C_Polyhedron (Uint16_Box y)
- C_Polyhedron (Uint32_Box y)
- C_Polyhedron (Uint64_Box y)
- C_Polyhedron (Z_Box y)
- C_Polyhedron (Rational_Box y)
- C_Polyhedron (BD_Shape_int8_t y)
- C_Polyhedron (BD_Shape_int16_t y)
- C_Polyhedron (BD_Shape_int32_t y)
- C_Polyhedron (BD_Shape_int64_t y)
- C_Polyhedron (BD_Shape_mpz_class y)
- C_Polyhedron (BD_Shape_mpq_class y)
- C_Polyhedron (Octagonal_Shape_int8_t y)
- C_Polyhedron (Octagonal_Shape_int16_t y)
- C_Polyhedron (Octagonal_Shape_int32_t y)
- C_Polyhedron (Octagonal_Shape_int64_t y)
- C_Polyhedron (Octagonal_Shape_mpz_class y)
- C_Polyhedron (Octagonal_Shape_mpq_class y)
- C_Polyhedron (C_Polyhedron y)
- C_Polyhedron (NNC_Polyhedron y)
- C_Polyhedron (Grid y)
- C_Polyhedron (Float_Box y)
- C_Polyhedron (BD_Shape_float y)
- C_Polyhedron (Octagonal_Shape_float y)
- C_Polyhedron (Double_Box y)

- C_Polyhedron (BD_Shape_double y)
- C_Polyhedron (Octagonal_Shape_double y)
- C_Polyhedron (Long_Double_Box y)
- C_Polyhedron (BD_Shape_long_double y)
- C_Polyhedron (Octagonal_Shape_long_double y)
- C_Polyhedron (Int8_Box y, Complexity_Class complexity)
- C_Polyhedron (Int16_Box y, Complexity_Class complexity)
- C_Polyhedron (Int32_Box y, Complexity_Class complexity)
- C_Polyhedron (Int64_Box y, Complexity_Class complexity)
- C_Polyhedron (Uint8_Box y, Complexity_Class complexity)
- C_Polyhedron (Uint16_Box y, Complexity_Class complexity)
- C_Polyhedron (Uint32_Box y, Complexity_Class complexity)
- C_Polyhedron (Uint64_Box y, Complexity_Class complexity)
- C_Polyhedron (Z_Box y, Complexity_Class complexity)
- C_Polyhedron (Rational_Box y, Complexity_Class complexity)
- C_Polyhedron (BD_Shape_int8_t y, Complexity_Class complexity)
- C_Polyhedron (BD_Shape_int16_t y, Complexity_Class complexity)
- C_Polyhedron (BD_Shape_int32_t y, Complexity_Class complexity)
- C_Polyhedron (BD_Shape_int64_t y, Complexity_Class complexity)
- C_Polyhedron (BD_Shape_mpz_class y, Complexity_Class complexity)
- C_Polyhedron (BD_Shape_mpq_class y, Complexity_Class complexity)
- C_Polyhedron (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- C_Polyhedron (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- C_Polyhedron (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- C_Polyhedron (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- C_Polyhedron (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- C_Polyhedron (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- C_Polyhedron (C_Polyhedron y, Complexity_Class complexity)
- C_Polyhedron (NNC_Polyhedron y, Complexity_Class complexity)
- C_Polyhedron (Grid y, Complexity_Class complexity)
- C_Polyhedron (Float_Box y, Complexity_Class complexity)
- C_Polyhedron (BD_Shape_float y, Complexity_Class complexity)
- C_Polyhedron (Octagonal_Shape_float y, Complexity_Class complexity)
- C_Polyhedron (Double_Box y, Complexity_Class complexity)
- C_Polyhedron (BD_Shape_double y, Complexity_Class complexity)
- C_Polyhedron (Octagonal_Shape_double y, Complexity_Class complexity)
- C_Polyhedron (Long_Double_Box y, Complexity_Class complexity)
- C_Polyhedron (BD_Shape_long_double y, Complexity_Class complexity)
- C_Polyhedron (Octagonal_Shape_long_double y, Complexity_Class complexity)
- C_Polyhedron (Constraint_System cs)
- C_Polyhedron (Congruence_System cs)
- C_Polyhedron (Generator_System cs)
- native boolean upper_bound_assign_if_exact (C_Polyhedron y)
- native boolean poly_hull_assign_if_exact (C_Polyhedron y)
- native void free ()

Static Public Member Functions

- static native Pair< C_Polyhedron, Pointset_Powerset_NNC_Polyhedron > linear_partition (C_Polyhedron p, C_Polyhedron q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- C_Polyhedron ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)

- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.13.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::C_Polyhedron.

Definition at line 30 of file C_Polyhedron.java.

11.13.2 Constructor & Destructor Documentation

11.13.2.1 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 33 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.2 parma_polyhedra_library::C_Polyhedron::C_Polyhedron () [inline, private]

Definition at line 38 of file C_Polyhedron.java.

11.13.2.3 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Int8_Box *y*) [inline]

Definition at line 41 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.4 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Int16_Box *y*) [inline]

Definition at line 45 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.5 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Int32_Box *y*) [inline]

Definition at line 49 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.6 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Int64_Box *y*) [inline]

Definition at line 53 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.7 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Uint8_Box *y*) [inline]

Definition at line 57 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.8 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Uint16_Box *y*) [inline]

Definition at line 61 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.9 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Uint32_Box *y*) [inline]

Definition at line 65 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.10 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Uint64_Box *y*) [inline]

Definition at line 69 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.11 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Z_Box *y*) [inline]

Definition at line 73 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.12 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Rational_Box *y*) [inline]

Definition at line 77 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.13 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (BD_Shape_int8_t *y*) [inline]

Definition at line 81 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.14 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (BD_Shape_int16_t *y*) [inline]

Definition at line 85 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.15 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (BD_Shape_int32_t *y*) [inline]

Definition at line 89 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.16 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (BD_Shape_int64_t *y*) [inline]

Definition at line 93 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.17 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (BD_Shape_mpz_class *y*) [inline]

Definition at line 97 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.18 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (BD_Shape_mpq_class *y*) [inline]

Definition at line 101 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.19 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 105 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.20 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 109 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.21 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 113 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.22 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 117 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.23 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 121 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.24 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 125 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.25 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (C_Polyhedron *y*) [inline]

Definition at line 129 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.26 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (NNC_Polyhedron *y*) [inline]

Definition at line 133 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.27 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Grid *y*) [inline]

Definition at line 137 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.28 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Float_Box *y*) [inline]

Definition at line 141 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.29 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (BD_Shape_float *y*) [inline]

Definition at line 145 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.30 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Octagonal_Shape_float *y*) [inline]

Definition at line 149 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.31 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Double_Box *y*) [inline]

Definition at line 153 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.32 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (BD_Shape_double *y*) [inline]

Definition at line 157 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.33 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Octagonal_Shape_double *y*) [inline]

Definition at line 161 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.34 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Long_Double_Box *y*) [inline]

Definition at line 165 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.35 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (BD_Shape_long_double *y*) [inline]

Definition at line 169 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.36 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Octagonal_Shape_long_double *y*) [inline]

Definition at line 173 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.37 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 177 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.38 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 181 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.39 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 185 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.40 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 189 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.41 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.42 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.43 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.44 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.45 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.46 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.47 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.48 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.49 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.50 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.51 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.52 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.53 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.54 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.55 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.56 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.57 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.58 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.59 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.60 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.61 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.62 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.63 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.64 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.65 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.66 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.67 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.68 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.69 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.70 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.71 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Constraint_System *cs*) [inline]

Definition at line 313 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.72 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Congruence_System *cs*) [inline]

Definition at line 317 of file C_Polyhedron.java.

References build_cpp_object().

11.13.2.73 parma_polyhedra_library::C_Polyhedron::C_Polyhedron (Generator_System *cs*) [inline]

Definition at line 321 of file C_Polyhedron.java.

References build_cpp_object().

11.13.3 Member Function Documentation

11.13.3.1 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.13.3.2 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Octagonal_Shape_long_double *y*) [private]

11.13.3.3 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.13.3.4 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (BD_Shape_long_double *y*) [private]

11.13.3.5 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.13.3.6 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Long_Double_Box *y*) [private]

11.13.3.7 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.13.3.8 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.13.3.9 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.13.3.10 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (BD_Shape_double *y*) [private]

11.13.3.11 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.13.3.12 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Double_Box *y*) [private]

11.13.3.13 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.13.3.14 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.13.3.15 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.13.3.16 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (BD_Shape_float *y*) [private]

11.13.3.17 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.13.3.18 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Float_Box *y*) [private]

11.13.3.19 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.13.3.20 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Grid *y*) [private]

11.13.3.21 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.13.3.22 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (NNC_Polyhedron *y*) [private]

11.13.3.23 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.13.3.24 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (C_Polyhedron *y*) [private]

11.13.3.25 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.13.3.26 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.13.3.27 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.13.3.28 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.13.3.29 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.13.3.30 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.13.3.31 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.13.3.32 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.13.3.33 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.13.3.34 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.13.3.35 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.13.3.36 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.13.3.37 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.13.3.38 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.13.3.39 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.13.3.40 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.13.3.41 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.13.3.42 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.13.3.43 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.13.3.44 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.13.3.45 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.13.3.46 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.13.3.47 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.13.3.48 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.13.3.49 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.13.3.50 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Rational_Box *y*) [private]

11.13.3.51 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.13.3.52 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Z_Box *y*) [private]

11.13.3.53 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.13.3.54 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Uint64_Box *y*) [private]

11.13.3.55 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.13.3.56 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Uint32_Box *y*) [private]

11.13.3.57 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.13.3.58 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Uint16_Box *y*) [private]

11.13.3.59 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.13.3.60 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Uint8_Box *y*) [private]

11.13.3.61 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.13.3.62 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Int64_Box *y*) [private]

11.13.3.63 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.13.3.64 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Int32_Box *y*) [private]

11.13.3.65 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.13.3.66 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Int16_Box *y*) [private]

11.13.3.67 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.13.3.68 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Int8_Box *y*) [private]

11.13.3.69 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.13.3.70 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Generator_System *cs*) [private]

11.13.3.71 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Congruence_System *cs*) [private]

11.13.3.72 native void parma_polyhedra_library::C_Polyhedron::build_cpp_object (Constraint_System *cs*) [private]

Referenced by C_Polyhedron().

11.13.3.73 native void parma_polyhedra_library::C_Polyhedron::finalize () [protected]

11.13.3.74 native void parma_polyhedra_library::C_Polyhedron::free ()

11.13.3.75 static native Pair<C_Polyhedron, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::C_Polyhedron::linear_partition (C_Polyhedron *p*, C_Polyhedron *q*) [static]

11.13.3.76 native boolean parma_polyhedra_library::C_Polyhedron::poly_hull_assign_if_exact (C_Polyhedron *y*)

11.13.3.77 native boolean parma_polyhedra_library::C_Polyhedron::upper_bound_assign_if_exact (C_Polyhedron *y*)

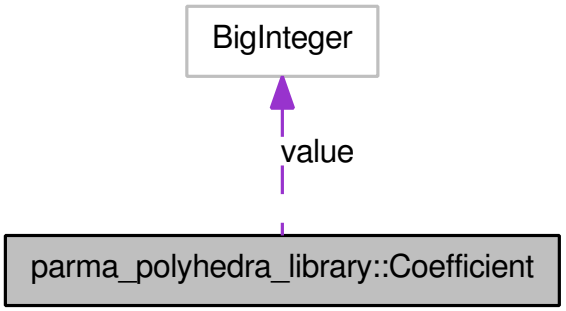
The documentation for this class was generated from the following file:

- C_Polyhedron.java

11.14 parma_polyhedra_library::Coefficient Class Reference

A PPL coefficient.

Collaboration diagram for parma_polyhedra_library::Coefficient:



Public Member Functions

- Coefficient (int i)

  Builds a coefficient valued `i`.

- Coefficient (long l)

  Builds a coefficient valued `l`.

- Coefficient (BigInteger bi)

  Builds a coefficient valued `bi`.

- Coefficient (String s)

  Builds a coefficient from the decimal representation in `s`.

- Coefficient (Coefficient c)

  Builds a copy of `c`.

- String toString ()

  Returns a String representation of `this`.

- BigInteger getBigInteger ()

  Returns the value held by `this`.

Static Public Member Functions

- static native int bits ()

  Returns the number of bits of PPL coefficients; 0 if unbounded.

Static Package Functions

- [static initializer]

Static Private Member Functions

- static native void initIDs ()

Private Attributes

- BigInteger value

  Holds the value of `this`.

11.14.1 Detailed Description

A PPL coefficient. Objects of type Coefficient are used to implement the integral valued coefficients occurring in linear expressions, constraints, generators and so on.

Definition at line 34 of file Coefficient.java.

11.14.2 Constructor & Destructor Documentation

11.14.2.1 parma_polyhedra_library::Coefficient::Coefficient (int *i*) [inline]

Builds a coefficient valued `i`.

Definition at line 40 of file Coefficient.java.

References value.

11.14.2.2 parma_polyhedra_library::Coefficient::Coefficient (long *l*) [inline]

Builds a coefficient valued `l`.

Definition at line 45 of file Coefficient.java.

References value.

11.14.2.3 parma_polyhedra_library::Coefficient::Coefficient (BigInteger *bi*) [inline]

Builds a coefficient valued `bi`.

Definition at line 50 of file Coefficient.java.

References value.

11.14.2.4 parma_polyhedra_library::Coefficient::Coefficient (String *s*) [inline]

Builds a coefficient from the decimal representation in `s`.

Exceptions

java.lang.NumberFormatException Thrown if `s` does not contain a valid decimal representation.

Definition at line 59 of file Coefficient.java.

References value.

11.14.2.5 parma_polyhedra_library::Coefficient::Coefficient (Coefficient *c*) [inline]

Builds a copy of `c`.

Definition at line 64 of file Coefficient.java.

References value.

11.14.3 Member Function Documentation

11.14.3.1 parma_polyhedra_library::Coefficient::[static initializer] () [inline, static, package]

11.14.3.2 static native int parma_polyhedra_library::Coefficient::bits () [static]

Returns the number of bits of PPL coefficients; 0 if unbounded.

11.14.3.3 BigInteger parma_polyhedra_library::Coefficient::getBigInteger () [inline]

Returns the value held by `this`.

Definition at line 74 of file Coefficient.java.

References value.

Referenced by parma_polyhedra_library::Generator::closure_point(), and parma_polyhedra_-library::Generator::point().

11.14.3.4 static native void parma_polyhedra_library::Coefficient::initIDs () [static, private]

11.14.3.5 String parma_polyhedra_library::Coefficient::toString () [inline]

Returns a String representation of `this`.

Definition at line 69 of file Coefficient.java.

References value.

11.14.4 Member Data Documentation

11.14.4.1 BigInteger parma_polyhedra_library::Coefficient::value [private]

Holds the value of `this`.

Definition at line 37 of file Coefficient.java.

Referenced by Coefficient(), getBigInteger(), and toString().

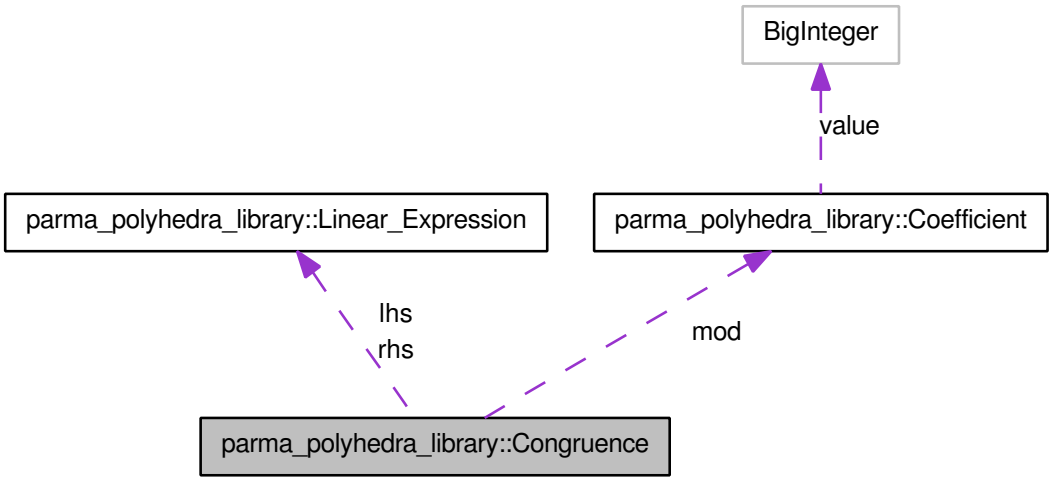
The documentation for this class was generated from the following file:

- Coefficient.java

11.15 parma_polyhedra_library::Congruence Class Reference

A linear congruence.

Collaboration diagram for parma_polyhedra_library::Congruence:



Public Member Functions

- Congruence (Linear_Expression e1, Linear_Expression e2, Coefficient m)

  Returns the congruence `e1` $=$ `e2` $\pmod{\texttt{m}}$.

- Linear_Expression left_hand_side ()

  Returns the left hand side of `this`.

- Linear_Expression right_hand_side ()

  Returns the right hand side of `this`.

- Coefficient modulus ()

  Returns the relation symbol of `this`.

- native String ascii_dump ()

  Returns an ascii formatted internal representation of `this`.

- native String toString ()

  Returns a string representation of `this`.

Protected Attributes

- Coefficient mod

  The modulus of the congruence.

Static Package Functions

- [static initializer]

Package Attributes

- Linear_Expression lhs

  The value of the left hand side of `this`.

- Linear_Expression rhs

  The value of the right hand side of `this`.

Static Private Member Functions

- static native void initIDs ()

11.15.1 Detailed Description

A linear congruence. An object of the class Congruence is an object represeting a congruence:

- cg $= \sum_{i=0}^{n-1} a_i x_i + b = 0 \pmod{m}$

where n is the dimension of the space, a_i is the integer coefficient of variable x_i, b is the integer inhomogeneous term and m is the integer modulus; if $m = 0$, then cg represents the equality congruence $\sum_{i=0}^{n-1} a_i x_i + b = 0$ and, if $m \neq 0$, then the congruence cg is said to be a proper congruence.

Definition at line 42 of file Congruence.java.

11.15.2 Constructor & Destructor Documentation

11.15.2.1 parma_polyhedra_library::Congruence::Congruence (Linear_Expression *e1*, Linear_Expression *e2*, Coefficient *m*) `[inline]`

Returns the congruence `e1` $=$ `e2` $\pmod{\texttt{m}}$.

Definition at line 57 of file Congruence.java.

References parma_polyhedra_library::Linear_Expression::clone(), lhs, mod, and rhs.

11.15.3 Member Function Documentation

11.15.3.1 parma_polyhedra_library::Congruence::[static initializer] () `[inline, static, package]`

11.15.3.2 native String parma_polyhedra_library::Congruence::ascii_dump ()

Returns an ascii formatted internal representation of `this`.

11.15.3.3 static native void parma_polyhedra_library::Congruence::initIDs () [static, private]

11.15.3.4 Linear_Expression parma_polyhedra_library::Congruence::left_hand_side () [inline]

Returns the left hand side of `this`.

Definition at line 65 of file Congruence.java.

References lhs.

11.15.3.5 Coefficient parma_polyhedra_library::Congruence::modulus () [inline]

Returns the relation symbol of `this`.

Definition at line 75 of file Congruence.java.

References mod.

11.15.3.6 Linear_Expression parma_polyhedra_library::Congruence::right_hand_side () [inline]

Returns the right hand side of `this`.

Definition at line 70 of file Congruence.java.

References rhs.

11.15.3.7 native String parma_polyhedra_library::Congruence::toString ()

Returns a string representation of `this`.

11.15.4 Member Data Documentation

11.15.4.1 Linear_Expression parma_polyhedra_library::Congruence::lhs [package]

The value of the left hand side of `this`.

Definition at line 48 of file Congruence.java.

Referenced by Congruence(), and left_hand_side().

11.15.4.2 Coefficient parma_polyhedra_library::Congruence::mod [protected]

The modulus of the congruence.

Definition at line 45 of file Congruence.java.

Referenced by Congruence(), and modulus().

11.15.4.3 Linear_Expression parma_polyhedra_library::Congruence::rhs [package]

The value of the right hand side of `this`.

Definition at line 51 of file Congruence.java.

Referenced by Congruence(), and right_hand_side().

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

- Congruence.java

11.16 parma_polyhedra_library::Congruence_System Class Reference

A system of congruences.

Public Member Functions

- Congruence_System ()
  Default constructor: builds an empty system of congruences.
- native String ascii_dump ()
  Returns an ascii formatted internal representation of `this`.
- native String toString ()
  Returns a string representation of `this`.

Static Package Functions

- [static initializer]

Static Private Member Functions

- static native void initIDs ()

11.16.1 Detailed Description

A system of congruences. An object of the class Congruence_System is a system of congruences, i.e., a multiset of objects of the class Congruence.

Definition at line 34 of file Congruence_System.java.

11.16.2 Constructor & Destructor Documentation

11.16.2.1 parma_polyhedra_library::Congruence_System::Congruence_System () [inline]

Default constructor: builds an empty system of congruences.

Definition at line 36 of file Congruence_System.java.

11.16.3 Member Function Documentation

11.16.3.1 parma_polyhedra_library::Congruence_System::[static initializer] () [inline, static, package]

11.16.3.2 native String parma_polyhedra_library::Congruence_System::ascii_dump ()

Returns an ascii formatted internal representation of `this`.

11.16.3.3 static native void parma_polyhedra_library::Congruence_System::initIDs () [static, private]

11.16.3.4 native String parma_polyhedra_library::Congruence_System::toString ()

Returns a string representation of `this`.

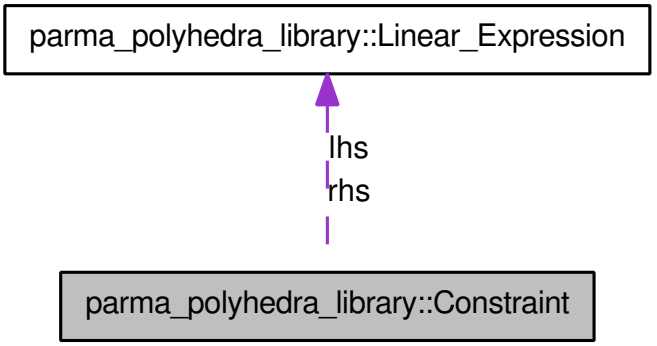
The documentation for this class was generated from the following file:

- Congruence_System.java

11.17 parma_polyhedra_library::Constraint Class Reference

A linear equality or inequality.

Collaboration diagram for parma_polyhedra_library::Constraint:



Public Member Functions

- Constraint (Linear_Expression le1, Relation_Symbol rel_sym, Linear_Expression le2)

  Builds a constraint from two linear expressions with a specified relation symbol.

- Linear_Expression left_hand_side ()

  Returns the left hand side of `this`.

- Linear_Expression right_hand_side ()

  Returns the right hand side of `this`.

- Relation_Symbol kind ()

  Returns the relation symbol of `this`.

- native String ascii_dump ()

  Returns an ascii formatted internal representation of `this`.

- native String toString ()

  Returns a string representation of `this`.

Static Package Functions

- [static initializer]

Static Private Member Functions

- static native void initIDs ()

Private Attributes

- Linear_Expression lhs

  The value of the left hand side of `this`.

- Linear_Expression rhs

  The value of the right hand side of `this`.

- Relation_Symbol kind

  The relation symbol of `this`.

11.17.1 Detailed Description

A linear equality or inequality. An object of the class Constraint is either:

- a linear equality;
- a non-strict linear inequality;
- a strict linear inequality.

Definition at line 36 of file Constraint.java.

11.17.2 Constructor & Destructor Documentation

11.17.2.1 parma_polyhedra_library::Constraint::Constraint (Linear_Expression *le1*, Relation_Symbol *rel_sym*, Linear_Expression *le2*) `[inline]`

Builds a constraint from two linear expressions with a specified relation symbol.

Definition at line 51 of file Constraint.java.

References parma_polyhedra_library::Linear_Expression::clone(), kind(), lhs, and rhs.

11.17.3 Member Function Documentation

11.17.3.1 parma_polyhedra_library::Constraint::[static initializer] () `[inline, static, package]`

11.17.3.2 native String parma_polyhedra_library::Constraint::ascii_dump ()

Returns an ascii formatted internal representation of `this`.

11.17.3.3 static native void parma_polyhedra_library::Constraint::initIDs () `[static, private]`

11.17.3.4 Relation_Symbol parma_polyhedra_library::Constraint::kind () [inline]

Returns the relation symbol of `this`.

Definition at line 69 of file Constraint.java.

Referenced by Constraint().

11.17.3.5 Linear_Expression parma_polyhedra_library::Constraint::left_hand_side () [inline]

Returns the left hand side of `this`.

Definition at line 59 of file Constraint.java.

References lhs.

11.17.3.6 Linear_Expression parma_polyhedra_library::Constraint::right_hand_side () [inline]

Returns the right hand side of `this`.

Definition at line 64 of file Constraint.java.

References rhs.

11.17.3.7 native String parma_polyhedra_library::Constraint::toString ()

Returns a string representation of `this`.

11.17.4 Member Data Documentation

11.17.4.1 Relation_Symbol parma_polyhedra_library::Constraint::kind [private]

The relation symbol of `this`.

Definition at line 45 of file Constraint.java.

11.17.4.2 Linear_Expression parma_polyhedra_library::Constraint::lhs [private]

The value of the left hand side of `this`.

Definition at line 39 of file Constraint.java.

Referenced by Constraint(), and left_hand_side().

11.17.4.3 Linear_Expression parma_polyhedra_library::Constraint::rhs [private]

The value of the right hand side of `this`.

Definition at line 42 of file Constraint.java.

Referenced by Constraint(), and right_hand_side().

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

- Constraint.java

11.18 parma_polyhedra_library::Constraint_System Class Reference

A system of constraints.

Public Member Functions

- Constraint_System ()
  Default constructor: builds an empty system of constraints.
- native String ascii_dump ()
  Returns an ascii formatted internal representation of `this`.
- native String toString ()
  Returns a string representation of `this`.

Static Package Functions

- [static initializer]

Static Private Member Functions

- static native void initIDs ()

11.18.1 Detailed Description

A system of constraints. An object of the class Constraint_System is a system of constraints, i.e., a multiset of objects of the class Constraint.

Definition at line 34 of file Constraint_System.java.

11.18.2 Constructor & Destructor Documentation

11.18.2.1 parma_polyhedra_library::Constraint_System::Constraint_System () [inline]

Default constructor: builds an empty system of constraints.

Definition at line 37 of file Constraint_System.java.

11.18.3 Member Function Documentation

11.18.3.1 parma_polyhedra_library::Constraint_System::[static initializer] () [inline, static, package]

11.18.3.2 native String parma_polyhedra_library::Constraint_System::ascii_dump ()

Returns an ascii formatted internal representation of `this`.

11.18.3.3 static native void parma_polyhedra_library::Constraint_System::initIDs () [static, private]

11.18.3.4 native String parma_polyhedra_library::Constraint_System::toString ()

Returns a string representation of `this`.

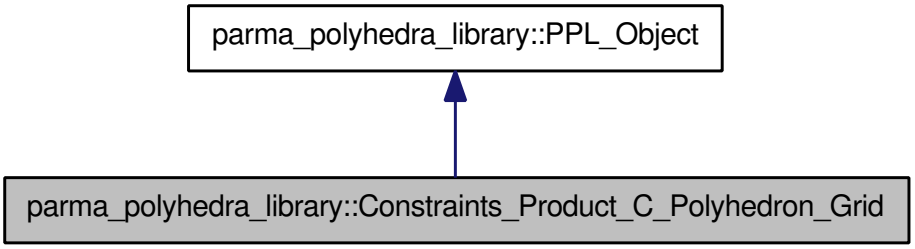
The documentation for this class was generated from the following file:

- Constraint_System.java

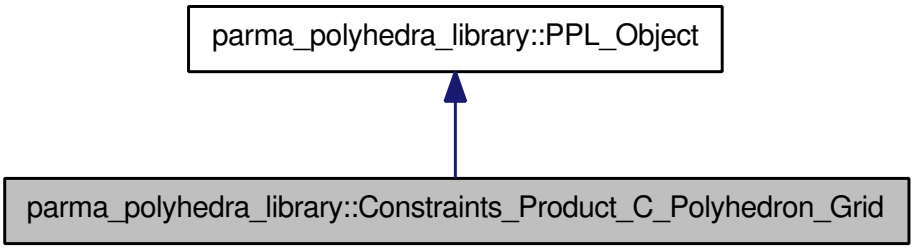
11.19 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Constraints_Product<C_Polyhedron,Grid>

Inheritance diagram for parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid:



Collaboration diagram for parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid:



Public Member Functions

- Constraints_Product_C_Polyhedron_Grid (long num_dimensions, Degenerate_Element kind)
- Constraints_Product_C_Polyhedron_Grid (Int8_Box y)
- Constraints_Product_C_Polyhedron_Grid (Int16_Box y)
- Constraints_Product_C_Polyhedron_Grid (Int32_Box y)
- Constraints_Product_C_Polyhedron_Grid (Int64_Box y)
- Constraints_Product_C_Polyhedron_Grid (Uint8_Box y)
- Constraints_Product_C_Polyhedron_Grid (Uint16_Box y)
- Constraints_Product_C_Polyhedron_Grid (Uint32_Box y)
- Constraints_Product_C_Polyhedron_Grid (Uint64_Box y)
- Constraints_Product_C_Polyhedron_Grid (Z_Box y)
- Constraints_Product_C_Polyhedron_Grid (Rational_Box y)
- Constraints_Product_C_Polyhedron_Grid (BD_Shape_int8_t y)
- Constraints_Product_C_Polyhedron_Grid (BD_Shape_int16_t y)
- Constraints_Product_C_Polyhedron_Grid (BD_Shape_int32_t y)
- Constraints_Product_C_Polyhedron_Grid (BD_Shape_int64_t y)
- Constraints_Product_C_Polyhedron_Grid (BD_Shape_mpz_class y)
- Constraints_Product_C_Polyhedron_Grid (BD_Shape_mpq_class y)
- Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_int8_t y)
- Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_int16_t y)
- Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_int32_t y)
- Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_int64_t y)
- Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_mpz_class y)
- Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_mpq_class y)
- Constraints_Product_C_Polyhedron_Grid (C_Polyhedron y)
- Constraints_Product_C_Polyhedron_Grid (NNC_Polyhedron y)
- Constraints_Product_C_Polyhedron_Grid (Grid y)
- Constraints_Product_C_Polyhedron_Grid (Float_Box y)
- Constraints_Product_C_Polyhedron_Grid (BD_Shape_float y)
- Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_float y)
- Constraints_Product_C_Polyhedron_Grid (Double_Box y)
- Constraints_Product_C_Polyhedron_Grid (BD_Shape_double y)
- Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_double y)
- Constraints_Product_C_Polyhedron_Grid (Long_Double_Box y)
- Constraints_Product_C_Polyhedron_Grid (BD_Shape_long_double y)
- Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_long_double y)
- Constraints_Product_C_Polyhedron_Grid (Constraints_Product_C_Polyhedron_Grid y)

- Constraints_Product_C_Polyhedron_Grid (Int8_Box y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Int16_Box y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Int32_Box y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Int64_Box y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Uint8_Box y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Uint16_Box y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Uint32_Box y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Uint64_Box y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Z_Box y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Rational_Box y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (BD_Shape_int8_t y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (BD_Shape_int16_t y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (BD_Shape_int32_t y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (BD_Shape_int64_t y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (BD_Shape_mpz_class y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (BD_Shape_mpq_class y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (C_Polyhedron y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (NNC_Polyhedron y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Grid y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Float_Box y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (BD_Shape_float y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_float y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Double_Box y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (BD_Shape_double y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_double y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Long_Double_Box y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (BD_Shape_long_double y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Constraints_Product_C_Polyhedron_Grid y, Complexity_Class complexity)
- Constraints_Product_C_Polyhedron_Grid (Constraint_System cs)
- Constraints_Product_C_Polyhedron_Grid (Congruence_System cs)
- native void swap (Constraints_Product_C_Polyhedron_Grid y)
- native long space_dimension ()
- native long affine_dimension ()

- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Constraints_Product_C_Polyhedron_Grid y)
- native boolean strictly_contains (Constraints_Product_C_Polyhedron_Grid y)
- native boolean is_disjoint_from (Constraints_Product_C_Polyhedron_Grid y)
- native boolean equals (Constraints_Product_C_Polyhedron_Grid p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Constraints_Product_C_Polyhedron_Grid p)
- native void upper_bound_assign (Constraints_Product_C_Polyhedron_Grid p)
- native void difference_assign (Constraints_Product_C_Polyhedron_Grid p)
- native void concatenate_assign (Constraints_Product_C_Polyhedron_Grid p)
- native void time_elapse_assign (Constraints_Product_C_Polyhedron_Grid p)
- native boolean upper_bound_assign_if_exact (Constraints_Product_C_Polyhedron_Grid y)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)

- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void widening_assign (Constraints_Product_C_Polyhedron_Grid y, By_Reference< Integer > tp)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Constraints_Product_C_Polyhedron_Grid ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)

- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)

- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Constraints_Product_C_Polyhedron_Grid y)
- native void build_cpp_object (Constraints_Product_C_Polyhedron_Grid y, Complexity_Class complexity)

11.19.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Constraints_Product<C_Polyhedron,Grid>

Definition at line 33 of file Constraints_Product_C_Polyhedron_Grid.java.

11.19.2 Constructor & Destructor Documentation

11.19.2.1 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.2 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid () [inline, private]

Definition at line 45 of file Constraints_Product_C_Polyhedron_Grid.java.

11.19.2.3 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Int8_Box *y*) [inline]

Definition at line 52 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.4 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Int16_Box *y*) [inline]

Definition at line 56 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.5 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Int32_Box *y*) [inline]

Definition at line 60 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.6 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Int64_Box *y*) [inline]

Definition at line 64 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.7 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Uint8_Box *y*) [inline]

Definition at line 68 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.8 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Uint16_Box *y*) [inline]

Definition at line 72 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.9 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Uint32_Box *y*) [inline]

Definition at line 76 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.10 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Uint64_Box *y*) [inline]

Definition at line 80 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.11 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Z_Box *y*) [inline]

Definition at line 84 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.12 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Rational_Box *y*) [inline]

Definition at line 88 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.13 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.14 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.15 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.16 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.17 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.18 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.19 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.20 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.21 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.22 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.23 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.24 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.25 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (C_Polyhedron *y*) [inline]

Definition at line 140 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.26 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.27 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Grid *y*) [inline]

Definition at line 148 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.28 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Float_Box *y*) [inline]

Definition at line 152 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.29 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (BD_Shape_float *y*) [inline]

Definition at line 156 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.30 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.31 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Double_Box *y*) [inline]

Definition at line 164 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.32 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (BD_Shape_double *y*) [inline]

Definition at line 168 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.33 parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.34 parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::Constraints_Product_C_Polyhedron_Grid (Long_Double_Box *y*) [inline]

Definition at line 176 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.35 parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::Constraints_Product_C_Polyhedron_Grid (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.36 parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.37 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_-Product_C_Polyhedron_Grid (Constraints_Product_C_Polyhedron_Grid *y*) [inline]

Definition at line 188 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.38 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.39 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.40 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.41 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.42 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.43 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.44 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.45 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.46 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.47 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.48 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.49 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_-Product_C_Polyhedron_Grid (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.50 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_-Product_C_Polyhedron_Grid (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.51 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_-Product_C_Polyhedron_Grid (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.52 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_-Product_C_Polyhedron_Grid (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.53 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_-Product_C_Polyhedron_Grid (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.54 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_-Product_C_Polyhedron_Grid (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.55 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.56 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.57 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.58 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.59 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.60 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_-Product_C_Polyhedron_Grid (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.61 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_-Product_C_Polyhedron_Grid (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.62 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_-Product_C_Polyhedron_Grid (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.63 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_-Product_C_Polyhedron_Grid (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.64 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_-Product_C_Polyhedron_Grid (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.65 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_-Product_C_Polyhedron_Grid (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.66 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.67 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.68 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.69 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.70 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.71 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 329 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.72 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Constraints_Product_C_Polyhedron_Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 333 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.73 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Constraint_System *cs*) [inline]

Definition at line 342 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.2.74 parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::Constraints_Product_C_Polyhedron_Grid (Congruence_System *cs*) [inline]

Definition at line 346 of file Constraints_Product_C_Polyhedron_Grid.java.

References build_cpp_object().

11.19.3 Member Function Documentation

11.19.3.1 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::add_congruence (Congruence *c*)

11.19.3.2 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::add_congruences (Congruence_System *c*)

11.19.3.3 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::add_constraint (Constraint *c*)

11.19.3.4 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::add_constraints (Constraint_System *c*)

11.19.3.5 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::add_space_dimensions_and_embed (long *m*)

11.19.3.6 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::add_space_dimensions_and_project (long *m*)

11.19.3.7 native long parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::affine_dimension ()

11.19.3.8 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.19.3.9 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.19.3.10 native String parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::ascii_dump ()

11.19.3.11 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.19.3.12 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.19.3.13 native boolean parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::bounds_from_above (Linear_Expression *expr*)

11.19.3.14 native boolean parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::bounds_from_below (Linear_Expression *expr*)

11.19.3.15 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Constraints_Product_C_Polyhedron_Grid *y*, Complexity_Class *complexity*) `[private]`

11.19.3.16 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Constraints_Product_C_Polyhedron_Grid *y*) `[private]`

11.19.3.17 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.19.3.18 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.19.3.19 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.19.3.20 native void parma_polyhedra_library::Constraints_Product_C_-Polyhedron_Grid::build_cpp_object (BD_Shape_long_double *y*) [private]

11.19.3.21 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.19.3.22 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::build_cpp_object (Long_Double_Box *y*) [private]

11.19.3.23 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.19.3.24 native void parma_polyhedra_library::Constraints_Product_C_-Polyhedron_Grid::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.19.3.25 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.19.3.26 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::build_cpp_object (BD_Shape_double *y*) [private]

11.19.3.27 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.19.3.28 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Double_Box *y*) [private]

11.19.3.29 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.19.3.30 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.19.3.31 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.19.3.32 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (BD_Shape_float *y*) [private]

11.19.3.33 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.19.3.34 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Float_Box *y*) [private]

11.19.3.35 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.19.3.36 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Grid *y*) [private]

11.19.3.37 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.19.3.38 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (NNC_Polyhedron *y*) [private]

11.19.3.39 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.19.3.40 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (C_Polyhedron *y*) [private]

11.19.3.41 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.19.3.42 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.19.3.43 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.19.3.44 native void parma_polyhedra_library::Constraints_Product_C_-Polyhedron_Grid::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.19.3.45 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.19.3.46 native void parma_polyhedra_library::Constraints_Product_C_-Polyhedron_Grid::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.19.3.47 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.19.3.48 native void parma_polyhedra_library::Constraints_Product_C_-Polyhedron_Grid::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.19.3.49 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.19.3.50 native void parma_polyhedra_library::Constraints_Product_C_-Polyhedron_Grid::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.19.3.51 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.19.3.52 native void parma_polyhedra_library::Constraints_Product_C_-Polyhedron_Grid::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.19.3.53 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.19.3.54 native void parma_polyhedra_library::Constraints_Product_C_-Polyhedron_Grid::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.19.3.55 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.19.3.56 native void parma_polyhedra_library::Constraints_Product_-C_Polyhedron_Grid::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.19.3.57 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.19.3.58 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.19.3.59 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.19.3.60 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.19.3.61 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.19.3.62 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.19.3.63 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.19.3.64 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.19.3.65 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.19.3.66 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Rational_Box *y*) [private]

11.19.3.67 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.19.3.68 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Z_Box *y*) [private]

11.19.3.69 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.19.3.70 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Uint64_Box *y*) [private]

11.19.3.71 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.19.3.72 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Uint32_Box *y*) [private]

11.19.3.73 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.19.3.74 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Uint16_Box *y*) [private]

11.19.3.75 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.19.3.76 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Uint8_Box *y*) [private]

11.19.3.77 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.19.3.78 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Int64_Box *y*) [private]

11.19.3.79 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.19.3.80 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Int32_Box *y*) [private]

11.19.3.81 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.19.3.82 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Int16_Box *y*) [private]

11.19.3.83 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.19.3.84 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Int8_Box *y*) [private]

11.19.3.85 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.19.3.86 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Congruence_System *cs*) [private]

11.19.3.87 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Constraints_Product_C_Polyhedron_Grid().

11.19.3.88 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::concatenate_assign (Constraints_Product_C_Polyhedron_Grid *p*)

11.19.3.89 native boolean parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::constrains (Variable *var*)

11.19.3.90 native boolean parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::contains (Constraints_Product_C_Polyhedron_Grid *y*)

11.19.3.91 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::difference_assign (Constraints_Product_C_Polyhedron_Grid *p*)

11.19.3.92 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::drop_some_non_integer_points (Integer *complexity_threshold*)

11.19.3.93 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.19.3.94 boolean parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::equals (Object *y*) [inline]

Definition at line 444 of file Constraints_Product_C_Polyhedron_Grid.java.

References equals().

11.19.3.95 native boolean parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::equals (Constraints_Product_C_Polyhedron_Grid *p*)

Referenced by equals().

11.19.3.96 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::expand_space_dimension (Variable *var*, long *m*)

11.19.3.97 native long parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::external_memory_in_bytes ()

11.19.3.98 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::finalize () [protected]

11.19.3.99 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.19.3.100 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::free ()

11.19.3.101 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.19.3.102 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.19.3.103 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.19.3.104 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.19.3.105 native int parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::hashCode ()

11.19.3.106 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::intersection_assign (Constraints_Product_C_Polyhedron_Grid *p*)

11.19.3.107 native boolean parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::is_bounded ()

11.19.3.108 native boolean parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::is_discrete ()

11.19.3.109 native boolean parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::is_disjoint_from (Constraints_Product_C_Polyhedron_Grid *y*)

11.19.3.110 native boolean parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::is_empty ()

11.19.3.111 native boolean parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::is_topologically_closed ()

11.19.3.112 native boolean parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::is_universe ()

11.19.3.113 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::map_space_dimensions (Partial_Function *pfunc*)

11.19.3.114 native boolean parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.19.3.115 native boolean parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.19.3.116 native boolean parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.19.3.117 native boolean parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.19.3.118 native boolean parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::OK ()

11.19.3.119 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::refine_with_congruence (Congruence *c*)

11.19.3.120 native void parma_polyhedra_library::Constraints_Product_C_-Polyhedron_Grid::refine_with_congruences (Congruence_System *c*)

11.19.3.121 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_-Grid::refine_with_constraint (Constraint *c*)

11.19.3.122 native void parma_polyhedra_library::Constraints_Product_C_-Polyhedron_Grid::refine_with_constraints (Constraint_System *c*)

11.19.3.123 native Poly_Con_Relation parma_polyhedra_library::Constraints_-Product_C_Polyhedron_Grid::relation_with (Congruence *c*)

11.19.3.124 native Poly_Gen_Relation parma_polyhedra_library::Constraints_Product_C_-Polyhedron_Grid::relation_with (Generator *c*)

11.19.3.125 native Poly_Con_Relation parma_polyhedra_library::Constraints_Product_C_-Polyhedron_Grid::relation_with (Constraint *c*)

11.19.3.126 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::remove_higher_space_dimensions (long *new_dimension*)

11.19.3.127 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::remove_space_dimensions (Variables_Set *vars*)

11.19.3.128 native long parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::space_dimension ()

11.19.3.129 native boolean parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::strictly_contains (Constraints_Product_C_Polyhedron_Grid *y*)

11.19.3.130 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::swap (Constraints_Product_C_Polyhedron_Grid *y*)

11.19.3.131 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::time_elapse_assign (Constraints_Product_C_Polyhedron_Grid *p*)

11.19.3.132 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::topological_closure_assign ()

11.19.3.133 native String parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::toString ()

11.19.3.134 native long parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::total_memory_in_bytes ()

11.19.3.135 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::unconstrain_space_dimension (Variable *var*)

11.19.3.136 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::unconstrain_space_dimensions (Variables_Set *vars*)

11.19.3.137 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::upper_bound_assign (Constraints_Product_C_Polyhedron_Grid *p*)

11.19.3.138 native boolean parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::upper_bound_assign_if_exact (Constraints_Product_C_Polyhedron_Grid *y*)

11.19.3.139 native void parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid::widening_assign (Constraints_Product_C_Polyhedron_Grid *y*, By_Reference< Integer > *tp*)

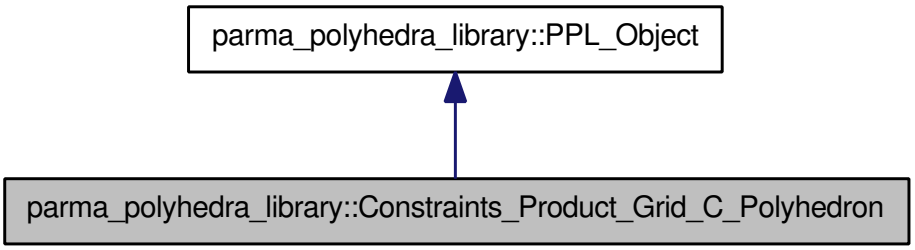
The documentation for this class was generated from the following file:

- Constraints_Product_C_Polyhedron_Grid.java

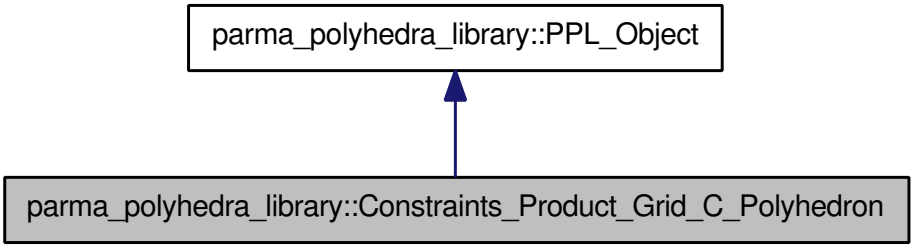
11.20 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Constraints_Product<Grid,C_Polyhedron>

Inheritance diagram for parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron:



Collaboration diagram for parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron:



Public Member Functions

- Constraints_Product_Grid_C_Polyhedron (long num_dimensions, Degenerate_Element kind)
- Constraints_Product_Grid_C_Polyhedron (Int8_Box y)
- Constraints_Product_Grid_C_Polyhedron (Int16_Box y)
- Constraints_Product_Grid_C_Polyhedron (Int32_Box y)
- Constraints_Product_Grid_C_Polyhedron (Int64_Box y)
- Constraints_Product_Grid_C_Polyhedron (Uint8_Box y)
- Constraints_Product_Grid_C_Polyhedron (Uint16_Box y)
- Constraints_Product_Grid_C_Polyhedron (Uint32_Box y)
- Constraints_Product_Grid_C_Polyhedron (Uint64_Box y)
- Constraints_Product_Grid_C_Polyhedron (Z_Box y)
- Constraints_Product_Grid_C_Polyhedron (Rational_Box y)
- Constraints_Product_Grid_C_Polyhedron (BD_Shape_int8_t y)
- Constraints_Product_Grid_C_Polyhedron (BD_Shape_int16_t y)
- Constraints_Product_Grid_C_Polyhedron (BD_Shape_int32_t y)
- Constraints_Product_Grid_C_Polyhedron (BD_Shape_int64_t y)
- Constraints_Product_Grid_C_Polyhedron (BD_Shape_mpz_class y)
- Constraints_Product_Grid_C_Polyhedron (BD_Shape_mpq_class y)
- Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_int8_t y)
- Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_int16_t y)
- Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_int32_t y)
- Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_int64_t y)
- Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_mpz_class y)
- Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_mpq_class y)
- Constraints_Product_Grid_C_Polyhedron (C_Polyhedron y)

- Constraints_Product_Grid_C_Polyhedron (NNC_Polyhedron y)
- Constraints_Product_Grid_C_Polyhedron (Grid y)
- Constraints_Product_Grid_C_Polyhedron (Float_Box y)
- Constraints_Product_Grid_C_Polyhedron (BD_Shape_float y)
- Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_float y)
- Constraints_Product_Grid_C_Polyhedron (Double_Box y)
- Constraints_Product_Grid_C_Polyhedron (BD_Shape_double y)
- Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_double y)
- Constraints_Product_Grid_C_Polyhedron (Long_Double_Box y)
- Constraints_Product_Grid_C_Polyhedron (BD_Shape_long_double y)
- Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_long_double y)
- Constraints_Product_Grid_C_Polyhedron (Constraints_Product_Grid_C_Polyhedron y)
- Constraints_Product_Grid_C_Polyhedron (Int8_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Int16_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Int32_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Int64_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Uint8_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Uint16_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Uint32_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Uint64_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Z_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Rational_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (BD_Shape_int8_t y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (BD_Shape_int16_t y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (BD_Shape_int32_t y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (BD_Shape_int64_t y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (BD_Shape_mpz_class y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (BD_Shape_mpq_class y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (C_Polyhedron y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (NNC_Polyhedron y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Grid y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Float_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (BD_Shape_float y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_float y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Double_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (BD_Shape_double y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_double y, Complexity_Class complexity)

- Constraints_Product_Grid_C_Polyhedron (Long_Double_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (BD_Shape_long_double y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Constraints_Product_Grid_C_Polyhedron y, Complexity_Class complexity)
- Constraints_Product_Grid_C_Polyhedron (Constraint_System cs)
- Constraints_Product_Grid_C_Polyhedron (Congruence_System cs)
- native void swap (Constraints_Product_Grid_C_Polyhedron y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean contains (Constraints_Product_Grid_C_Polyhedron y)
- native boolean strictly_contains (Constraints_Product_Grid_C_Polyhedron y)
- native boolean is_disjoint_from (Constraints_Product_Grid_C_Polyhedron y)
- native boolean equals (Constraints_Product_Grid_C_Polyhedron p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Constraints_Product_Grid_C_Polyhedron p)
- native void upper_bound_assign (Constraints_Product_Grid_C_Polyhedron p)
- native void difference_assign (Constraints_Product_Grid_C_Polyhedron p)
- native void concatenate_assign (Constraints_Product_Grid_C_Polyhedron p)
- native void time_elapse_assign (Constraints_Product_Grid_C_Polyhedron p)
- native boolean upper_bound_assign_if_exact (Constraints_Product_Grid_C_Polyhedron y)

- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void widening_assign (Constraints_Product_Grid_C_Polyhedron y, By_Reference< Integer > tp)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Constraints_Product_Grid_C_Polyhedron ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)

- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)

- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Constraints_Product_Grid_C_Polyhedron y)
- native void build_cpp_object (Constraints_Product_Grid_C_Polyhedron y, Complexity_Class complexity)

11.20.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Constraints_Product<Grid,C_Polyhedron>

Definition at line 33 of file Constraints_Product_Grid_C_Polyhedron.java.

11.20.2 Constructor & Destructor Documentation

11.20.2.1 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.2 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron () [inline, private]

Definition at line 45 of file Constraints_Product_Grid_C_Polyhedron.java.

11.20.2.3 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Int8_Box *y*) [inline]

Definition at line 52 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.4 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Int16_Box *y*) [inline]

Definition at line 56 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.5 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Int32_Box *y*) [inline]

Definition at line 60 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.6 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Int64_Box *y*) [inline]

Definition at line 64 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.7 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Uint8_Box *y*) [inline]

Definition at line 68 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.8 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Uint16_Box *y*) [inline]

Definition at line 72 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.9 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Uint32_Box *y*) [inline]

Definition at line 76 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.10 parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::Constraints_Product_Grid_C_Polyhedron (Uint64_Box *y*) [inline]

Definition at line 80 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.11 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_-Product_Grid_C_Polyhedron (Z_Box *y*) [inline]

Definition at line 84 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.12 parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::Constraints_Product_Grid_C_Polyhedron (Rational_Box *y*) [inline]

Definition at line 88 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.13 parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::Constraints_Product_Grid_C_Polyhedron (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.14 parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::Constraints_Product_Grid_C_Polyhedron (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.15 parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::Constraints_Product_Grid_C_Polyhedron (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.16 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.17 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.18 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.19 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.20 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.21 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_-Product_Grid_C_Polyhedron (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.22 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_-Product_Grid_C_Polyhedron (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.23 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_-Product_Grid_C_Polyhedron (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.24 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_-Product_Grid_C_Polyhedron (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.25 parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::Constraints_Product_Grid_C_Polyhedron (C_Polyhedron *y*) [inline]

Definition at line 140 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.26 parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::Constraints_Product_Grid_C_Polyhedron (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.27 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Grid *y*) [inline]

Definition at line 148 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.28 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Float_Box *y*) [inline]

Definition at line 152 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.29 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (BD_Shape_float *y*) [inline]

Definition at line 156 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.30 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.31 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Double_Box *y*) [inline]

Definition at line 164 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.32 parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::Constraints_Product_Grid_C_Polyhedron (BD_Shape_double *y*) [inline]

Definition at line 168 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.33 parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.34 parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::Constraints_Product_Grid_C_Polyhedron (Long_Double_Box *y*) [inline]

Definition at line 176 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.35 parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::Constraints_Product_Grid_C_Polyhedron (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.36 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_-Product_Grid_C_Polyhedron (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.37 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_-Product_Grid_C_Polyhedron (Constraints_Product_Grid_C_Polyhedron *y*) [inline]

Definition at line 188 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.38 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.39 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.40 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.41 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.42 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.43 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.44 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.45 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.46 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.47 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.48 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.49 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.50 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.51 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.52 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.53 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.54 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.55 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.56 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.57 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.58 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.59 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.60 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.61 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.62 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.63 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.64 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.65 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.66 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.67 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.68 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.69 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.70 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.71 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 329 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.72 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Constraints_Product_Grid_C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 333 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.73 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Constraint_System *cs*) [inline]

Definition at line 342 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.2.74 parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::Constraints_Product_Grid_C_Polyhedron (Congruence_System *cs*) [inline]

Definition at line 346 of file Constraints_Product_Grid_C_Polyhedron.java.

References build_cpp_object().

11.20.3 Member Function Documentation

11.20.3.1 native void parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::add_congruence (Congruence *c*)

11.20.3.2 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::add_congruences (Congruence_System *c*)

11.20.3.3 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::add_constraint (Constraint *c*)

11.20.3.4 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::add_constraints (Constraint_System *c*)

11.20.3.5 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::add_space_dimensions_and_embed (long *m*)

11.20.3.6 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::add_space_dimensions_and_project (long *m*)

11.20.3.7 native long parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::affine_dimension ()

11.20.3.8 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.20.3.9 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.20.3.10 native String parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::ascii_dump ()

11.20.3.11 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.20.3.12 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.20.3.13 native boolean parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::bounds_from_above (Linear_Expression *expr*)

11.20.3.14 native boolean parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::bounds_from_below (Linear_Expression *expr*)

11.20.3.15 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Constraints_Product_Grid_C_Polyhedron *y*, Complexity_Class *complexity*) `[private]`

11.20.3.16 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Constraints_Product_Grid_C_Polyhedron *y*) `[private]`

11.20.3.17 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.20.3.18 native void parma_polyhedra_library::Constraints_Product_Grid_-C_Polyhedron::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.20.3.19 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.20.3.20 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::build_cpp_object (BD_Shape_long_double *y*) [private]

11.20.3.21 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.20.3.22 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::build_cpp_object (Long_Double_Box *y*) [private]

11.20.3.23 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.20.3.24 native void parma_polyhedra_library::Constraints_Product_Grid_-C_Polyhedron::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.20.3.25 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.20.3.26 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::build_cpp_object (BD_Shape_double *y*) [private]

11.20.3.27 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.20.3.28 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Double_Box *y*) [private]

11.20.3.29 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.20.3.30 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.20.3.31 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.20.3.32 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (BD_Shape_float *y*) [private]

11.20.3.33 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.20.3.34 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Float_Box *y*) [private]

11.20.3.35 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.20.3.36 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Grid *y*) [private]

11.20.3.37 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.20.3.38 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (NNC_Polyhedron *y*) [private]

11.20.3.39 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.20.3.40 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (C_Polyhedron *y*) [private]

11.20.3.41 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.20.3.42 native void parma_polyhedra_library::Constraints_Product_Grid_-C_Polyhedron::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.20.3.43 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.20.3.44 native void parma_polyhedra_library::Constraints_Product_Grid_-C_Polyhedron::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.20.3.45 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.20.3.46 native void parma_polyhedra_library::Constraints_Product_Grid_-C_Polyhedron::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.20.3.47 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.20.3.48 native void parma_polyhedra_library::Constraints_Product_Grid_-C_Polyhedron::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.20.3.49 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.20.3.50 native void parma_polyhedra_library::Constraints_Product_Grid_-C_Polyhedron::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.20.3.51 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.20.3.52 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.20.3.53 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.20.3.54 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.20.3.55 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.20.3.56 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.20.3.57 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.20.3.58 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.20.3.59 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.20.3.60 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.20.3.61 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.20.3.62 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.20.3.63 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.20.3.64 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.20.3.65 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.20.3.66 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Rational_Box *y*) [private]

11.20.3.67 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.20.3.68 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Z_Box *y*) [private]

11.20.3.69 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.20.3.70 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Uint64_Box *y*) [private]

11.20.3.71 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.20.3.72 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Uint32_Box *y*) [private]

11.20.3.73 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.20.3.74 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Uint16_Box *y*) [private]

11.20.3.75 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.20.3.76 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Uint8_Box *y*) [private]

11.20.3.77 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.20.3.78 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Int64_Box *y*) [private]

11.20.3.79 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.20.3.80 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Int32_Box *y*) [private]

11.20.3.81 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.20.3.82 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Int16_Box *y*) [private]

11.20.3.83 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.20.3.84 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (Int8_Box *y*) [private]

11.20.3.85 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.20.3.86 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::build_cpp_object (Congruence_System *cs*) [private]

11.20.3.87 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Constraints_Product_Grid_C_Polyhedron().

11.20.3.88 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::concatenate_assign (Constraints_Product_Grid_C_Polyhedron *p*)

11.20.3.89 native boolean parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::constrains (Variable *var*)

11.20.3.90 native boolean parma_polyhedra_library::Constraints_Product_Grid_-C_Polyhedron::contains (Constraints_Product_Grid_C_Polyhedron *y*)

11.20.3.91 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::difference_assign (Constraints_Product_Grid_C_Polyhedron *p*)

11.20.3.92 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::drop_some_non_integer_points (Integer *complexity_threshold*)

11.20.3.93 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.20.3.94 boolean parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::equals (Object *y*) `[inline]`

Definition at line 444 of file Constraints_Product_Grid_C_Polyhedron.java.

References equals().

11.20.3.95 native boolean parma_polyhedra_library::Constraints_Product_Grid_-C_Polyhedron::equals (Constraints_Product_Grid_C_Polyhedron *p*)

Referenced by equals().

11.20.3.96 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::expand_space_dimension (Variable *var*, long *m*)

11.20.3.97 native long parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::external_memory_in_bytes ()

11.20.3.98 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::finalize () `[protected]`

11.20.3.99 native void parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.20.3.100 native void parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::free ()

11.20.3.101 native void parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.20.3.102 native void parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.20.3.103 native void parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.20.3.104 native void parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.20.3.105 native int parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::hashCode ()

11.20.3.106 native void parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron::intersection_assign (Constraints_Product_Grid_C_Polyhedron *p*)

11.20.3.107 native boolean parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::is_bounded ()

11.20.3.108 native boolean parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::is_discrete ()

11.20.3.109 native boolean parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::is_disjoint_from (Constraints_Product_Grid_C_Polyhedron *y*)

11.20.3.110 native boolean parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::is_empty ()

11.20.3.111 native boolean parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::is_topologically_closed ()

11.20.3.112 native boolean parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::is_universe ()

11.20.3.113 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::map_space_dimensions (Partial_Function *pfunc*)

11.20.3.114 native boolean parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.20.3.115 native boolean parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.20.3.116 native boolean parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.20.3.117 native boolean parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.20.3.118 native boolean parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::OK ()

11.20.3.119 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::refine_with_congruence (Congruence *c*)

11.20.3.120 native void parma_polyhedra_library::Constraints_Product_Grid_-C_Polyhedron::refine_with_congruences (Congruence_System *c*)

11.20.3.121 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::refine_with_constraint (Constraint *c*)

11.20.3.122 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::refine_with_constraints (Constraint_System *c*)

11.20.3.123 native Poly_Con_Relation parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::relation_with (Congruence *c*)

11.20.3.124 native Poly_Gen_Relation parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::relation_with (Generator *c*)

11.20.3.125 native Poly_Con_Relation parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::relation_with (Constraint *c*)

11.20.3.126 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::remove_higher_space_dimensions (long *new_dimension*)

11.20.3.127 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::remove_space_dimensions (Variables_Set *vars*)

11.20.3.128 native long parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::space_dimension ()

11.20.3.129 native boolean parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::strictly_contains (Constraints_Product_Grid_C_Polyhedron *y*)

11.20.3.130 native void parma_polyhedra_library::Constraints_Product_Grid_-C_Polyhedron::swap (Constraints_Product_Grid_C_Polyhedron *y*)

11.20.3.131 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::time_elapse_assign (Constraints_Product_Grid_C_Polyhedron *p*)

11.20.3.132 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::topological_closure_assign ()

11.20.3.133 native String parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::toString ()

11.20.3.134 native long parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::total_memory_in_bytes ()

11.20.3.135 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::unconstrain_space_dimension (Variable *var*)

11.20.3.136 native void parma_polyhedra_library::Constraints_Product_-Grid_C_Polyhedron::unconstrain_space_dimensions (Variables_Set *vars*)

11.20.3.137 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::upper_bound_assign (Constraints_Product_Grid_C_Polyhedron *p*)

11.20.3.138 native boolean parma_polyhedra_library::Constraints_-Product_Grid_C_Polyhedron::upper_bound_assign_if_exact (Constraints_Product_Grid_C_Polyhedron *y*)

11.20.3.139 native void parma_polyhedra_library::Constraints_Product_Grid_C_-Polyhedron::widening_assign (Constraints_Product_Grid_C_Polyhedron *y*, By_Reference< Integer > *tp*)

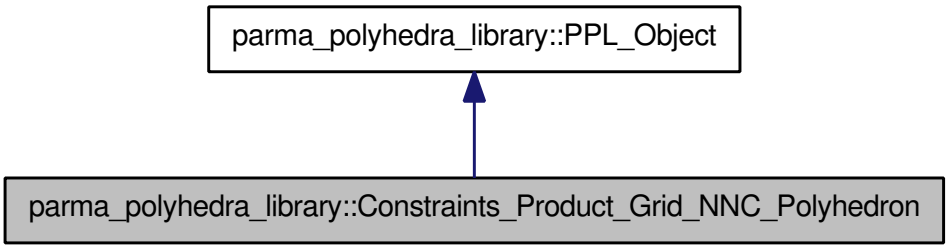
The documentation for this class was generated from the following file:

- Constraints_Product_Grid_C_Polyhedron.java

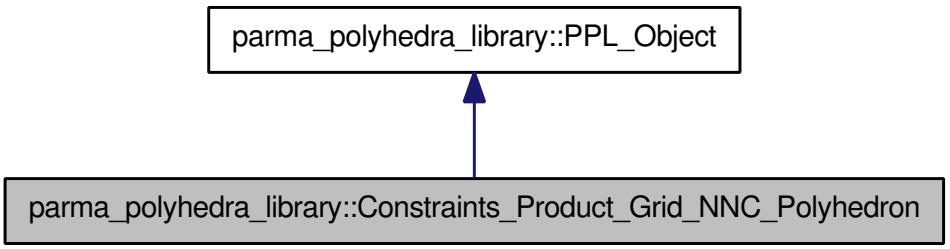
11.21 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Constraints_Product<Grid,NNC_Polyhedron>

Inheritance diagram for parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron:



Collaboration diagram for parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron:



Public Member Functions

- Constraints_Product_Grid_NNC_Polyhedron (long num_dimensions, Degenerate_Element kind)
- Constraints_Product_Grid_NNC_Polyhedron (Int8_Box y)
- Constraints_Product_Grid_NNC_Polyhedron (Int16_Box y)
- Constraints_Product_Grid_NNC_Polyhedron (Int32_Box y)
- Constraints_Product_Grid_NNC_Polyhedron (Int64_Box y)
- Constraints_Product_Grid_NNC_Polyhedron (Uint8_Box y)
- Constraints_Product_Grid_NNC_Polyhedron (Uint16_Box y)
- Constraints_Product_Grid_NNC_Polyhedron (Uint32_Box y)
- Constraints_Product_Grid_NNC_Polyhedron (Uint64_Box y)
- Constraints_Product_Grid_NNC_Polyhedron (Z_Box y)
- Constraints_Product_Grid_NNC_Polyhedron (Rational_Box y)
- Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_int8_t y)
- Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_int16_t y)
- Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_int32_t y)
- Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_int64_t y)
- Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_mpz_class y)
- Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_mpq_class y)
- Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_int8_t y)
- Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_int16_t y)
- Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_int32_t y)
- Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_int64_t y)
- Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_mpz_class y)
- Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_mpq_class y)
- Constraints_Product_Grid_NNC_Polyhedron (C_Polyhedron y)

- Constraints_Product_Grid_NNC_Polyhedron (NNC_Polyhedron y)
- Constraints_Product_Grid_NNC_Polyhedron (Grid y)
- Constraints_Product_Grid_NNC_Polyhedron (Float_Box y)
- Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_float y)
- Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_float y)
- Constraints_Product_Grid_NNC_Polyhedron (Double_Box y)
- Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_double y)
- Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_double y)
- Constraints_Product_Grid_NNC_Polyhedron (Long_Double_Box y)
- Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_long_double y)
- Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_long_double y)
- Constraints_Product_Grid_NNC_Polyhedron (Constraints_Product_Grid_NNC_Polyhedron y)
- Constraints_Product_Grid_NNC_Polyhedron (Int8_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Int16_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Int32_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Int64_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Uint8_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Uint16_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Uint32_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Uint64_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Z_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Rational_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_int8_t y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_int16_t y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_int32_t y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_int64_t y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_mpz_class y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_mpq_class y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (C_Polyhedron y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (NNC_Polyhedron y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Grid y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Float_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_float y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_float y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Double_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_double y, Complexity_Class complexity)

- Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_double y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Long_Double_Box y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_long_double y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Constraints_Product_Grid_NNC_Polyhedron y, Complexity_Class complexity)
- Constraints_Product_Grid_NNC_Polyhedron (Constraint_System cs)
- Constraints_Product_Grid_NNC_Polyhedron (Congruence_System cs)
- native void swap (Constraints_Product_Grid_NNC_Polyhedron y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean contains (Constraints_Product_Grid_NNC_Polyhedron y)
- native boolean strictly_contains (Constraints_Product_Grid_NNC_Polyhedron y)
- native boolean is_disjoint_from (Constraints_Product_Grid_NNC_Polyhedron y)
- native boolean equals (Constraints_Product_Grid_NNC_Polyhedron p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Constraints_Product_Grid_NNC_Polyhedron p)
- native void upper_bound_assign (Constraints_Product_Grid_NNC_Polyhedron p)
- native void difference_assign (Constraints_Product_Grid_NNC_Polyhedron p)
- native void concatenate_assign (Constraints_Product_Grid_NNC_Polyhedron p)

- native void time_elapse_assign (Constraints_Product_Grid_NNC_Polyhedron p)
- native boolean upper_bound_assign_if_exact (Constraints_Product_Grid_NNC_Polyhedron y)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void widening_assign (Constraints_Product_Grid_NNC_Polyhedron y, By_Reference< Integer > tp)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Constraints_Product_Grid_NNC_Polyhedron ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)

- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)

- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Constraints_Product_Grid_NNC_Polyhedron y)
- native void build_cpp_object (Constraints_Product_Grid_NNC_Polyhedron y, Complexity_Class complexity)

11.21.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Constraints_Product<Grid,NNC_Polyhedron>

Definition at line 33 of file Constraints_Product_Grid_NNC_Polyhedron.java.

11.21.2 Constructor & Destructor Documentation

11.21.2.1 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.2 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron () [inline, private]

Definition at line 45 of file Constraints_Product_Grid_NNC_Polyhedron.java.

11.21.2.3 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Int8_Box *y*) [inline]

Definition at line 52 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.4 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Int16_Box *y*) [inline]

Definition at line 56 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.5 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Int32_Box *y*) [inline]

Definition at line 60 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.6 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Int64_Box *y*) [inline]

Definition at line 64 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.7 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Uint8_Box *y*) [inline]

Definition at line 68 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.8 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Uint16_Box *y*) [inline]

Definition at line 72 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.9 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Uint32_Box *y*) [inline]

Definition at line 76 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.10 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Uint64_Box *y*) [inline]

Definition at line 80 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.11 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Z_Box *y*) [inline]

Definition at line 84 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.12 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Rational_Box *y*) [inline]

Definition at line 88 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.13 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.14 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.15 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.16 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.17 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.18 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.19 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.20 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.21 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.22 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.23 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.24 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.25 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (C_Polyhedron *y*) [inline]

Definition at line 140 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.26 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.27 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Grid *y*) [inline]

Definition at line 148 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.28 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Float_Box *y*) [inline]

Definition at line 152 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.29 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_float *y*) [inline]

Definition at line 156 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.30 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.31 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Double_Box *y*) [inline]

Definition at line 164 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.32 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_double *y*) [inline]

Definition at line 168 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.33 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.34 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Long_Double_Box *y*) [inline]

Definition at line 176 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.35 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.36 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.37 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Constraints_Product_Grid_NNC_Polyhedron *y*) [inline]

Definition at line 188 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.38 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.39 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.40 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.41 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.42 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.43 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.44 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.45 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.46 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.47 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.48 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.49 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.50 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.51 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.52 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.53 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.54 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.55 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.56 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.57 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.58 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.59 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.60 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.61 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.62 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.63 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.64 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.65 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.66 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.67 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.68 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.69 parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.70 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.71 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 329 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.72 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Constraints_Product_Grid_NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 333 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.73 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Constraint_System *cs*) [inline]

Definition at line 342 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.2.74 parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::Constraints_Product_Grid_NNC_Polyhedron (Congruence_System *cs*) [inline]

Definition at line 346 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References build_cpp_object().

11.21.3 Member Function Documentation

11.21.3.1 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::add_congruence (Congruence *c*)

11.21.3.2 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::add_congruences (Congruence_System *c*)

11.21.3.3 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::add_constraint (Constraint *c*)

11.21.3.4 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::add_constraints (Constraint_System *c*)

11.21.3.5 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::add_space_dimensions_and_embed (long *m*)

11.21.3.6 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::add_space_dimensions_and_project (long *m*)

11.21.3.7 native long parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::affine_dimension ()

11.21.3.8 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.21.3.9 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.21.3.10 native String parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::ascii_dump ()

11.21.3.11 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.21.3.12 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.21.3.13 native boolean parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::bounds_from_above (Linear_Expression *expr*)

11.21.3.14 native boolean parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::bounds_from_below (Linear_Expression *expr*)

11.21.3.15 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Constraints_Product_Grid_NNC_Polyhedron *y*, Complexity_Class *complexity*) `[private]`

11.21.3.16 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Constraints_Product_Grid_NNC_Polyhedron *y*) `[private]`

11.21.3.17 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.21.3.18 native void parma_polyhedra_library::Constraints_Product_Grid_-NNC_Polyhedron::build_cpp_object (Octagonal_Shape_long_double *y*) [private]

11.21.3.19 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.21.3.20 native void parma_polyhedra_library::Constraints_Product_Grid_-NNC_Polyhedron::build_cpp_object (BD_Shape_long_double *y*) [private]

11.21.3.21 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.21.3.22 native void parma_polyhedra_library::Constraints_Product_-Grid_NNC_Polyhedron::build_cpp_object (Long_Double_Box *y*) [private]

11.21.3.23 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.21.3.24 native void parma_polyhedra_library::Constraints_Product_Grid_-NNC_Polyhedron::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.21.3.25 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.21.3.26 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (BD_Shape_double *y*) [private]

11.21.3.27 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.21.3.28 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Double_Box *y*) [private]

11.21.3.29 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.21.3.30 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.21.3.31 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.21.3.32 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (BD_Shape_float *y*) [private]

11.21.3.33 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.21.3.34 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Float_Box *y*) [private]

11.21.3.35 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.21.3.36 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Grid *y*) [private]

11.21.3.37 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.21.3.38 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (NNC_Polyhedron *y*) [private]

11.21.3.39 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.21.3.40 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (C_Polyhedron *y*) [private]

11.21.3.41 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.21.3.42 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.21.3.43 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.21.3.44 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.21.3.45 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.21.3.46 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.21.3.47 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.21.3.48 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.21.3.49 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.21.3.50 native void parma_polyhedra_library::Constraints_Product_Grid_-NNC_Polyhedron::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.21.3.51 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.21.3.52 native void parma_polyhedra_library::Constraints_Product_Grid_-NNC_Polyhedron::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.21.3.53 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.21.3.54 native void parma_polyhedra_library::Constraints_Product_Grid_-NNC_Polyhedron::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.21.3.55 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.21.3.56 native void parma_polyhedra_library::Constraints_Product_Grid_-NNC_Polyhedron::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.21.3.57 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.21.3.58 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.21.3.59 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.21.3.60 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.21.3.61 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.21.3.62 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.21.3.63 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.21.3.64 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.21.3.65 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.21.3.66 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Rational_Box *y*) [private]

11.21.3.67 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.21.3.68 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Z_Box *y*) [private]

11.21.3.69 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.21.3.70 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Uint64_Box *y*) [private]

11.21.3.71 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.21.3.72 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Uint32_Box *y*) [private]

11.21.3.73 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.21.3.74 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Uint16_Box *y*) [private]

11.21.3.75 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.21.3.76 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Uint8_Box *y*) [private]

11.21.3.77 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.21.3.78 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Int64_Box *y*) [private]

11.21.3.79 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.21.3.80 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Int32_Box *y*) [private]

11.21.3.81 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.21.3.82 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Int16_Box *y*) [private]

11.21.3.83 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.21.3.84 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Int8_Box *y*) [private]

11.21.3.85 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.21.3.86 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Congruence_System *cs*) [private]

11.21.3.87 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Constraints_Product_Grid_NNC_Polyhedron().

11.21.3.88 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::concatenate_assign (Constraints_Product_Grid_NNC_Polyhedron *p*)

11.21.3.89 native boolean parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::constrains (Variable *var*)

11.21.3.90 native boolean parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::contains (Constraints_Product_Grid_NNC_Polyhedron *y*)

11.21.3.91 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::difference_assign (Constraints_Product_Grid_NNC_Polyhedron *p*)

11.21.3.92 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::drop_some_non_integer_points (Integer *complexity_threshold*)

11.21.3.93 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.21.3.94 boolean parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::equals (Object *y*) `[inline]`

Definition at line 444 of file Constraints_Product_Grid_NNC_Polyhedron.java.

References equals().

11.21.3.95 native boolean parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::equals (Constraints_Product_Grid_NNC_Polyhedron *p*)

Referenced by equals().

11.21.3.96 native void parma_polyhedra_library::Constraints_Product_Grid_-NNC_Polyhedron::expand_space_dimension (Variable *var*, long *m*)

11.21.3.97 native long parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::external_memory_in_bytes ()

11.21.3.98 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::finalize () `[protected]`

11.21.3.99 native void parma_polyhedra_library::Constraints_Product_Grid_-NNC_Polyhedron::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.21.3.100 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::free ()

11.21.3.101 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.21.3.102 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.21.3.103 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.21.3.104 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.21.3.105 native int parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::hashCode ()

11.21.3.106 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::intersection_assign (Constraints_Product_Grid_NNC_Polyhedron *p*)

11.21.3.107 native boolean parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::is_bounded ()

11.21.3.108 native boolean parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::is_discrete ()

11.21.3.109 native boolean parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::is_disjoint_from (Constraints_Product_Grid_NNC_Polyhedron *y*)

11.21.3.110 native boolean parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::is_empty ()

11.21.3.111 native boolean parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::is_topologically_closed ()

11.21.3.112 native boolean parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::is_universe ()

11.21.3.113 native void parma_polyhedra_library::Constraints_Product_-Grid_NNC_Polyhedron::map_space_dimensions (Partial_Function *pfunc*)

11.21.3.114 native boolean parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.21.3.115 native boolean parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.21.3.116 native boolean parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.21.3.117 native boolean parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.21.3.118 native boolean parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::OK ()

11.21.3.119 native void parma_polyhedra_library::Constraints_Product_-Grid_NNC_Polyhedron::refine_with_congruence (Congruence *c*)

11.21.3.120 native void parma_polyhedra_library::Constraints_Product_Grid_-NNC_Polyhedron::refine_with_congruences (Congruence_System *c*)

11.21.3.121 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::refine_with_constraint (Constraint *c*)

11.21.3.122 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::refine_with_constraints (Constraint_System *c*)

11.21.3.123 native Poly_Con_Relation parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::relation_with (Congruence *c*)

11.21.3.124 native Poly_Gen_Relation parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::relation_with (Generator *c*)

11.21.3.125 native Poly_Con_Relation parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::relation_with (Constraint *c*)

11.21.3.126 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::remove_higher_space_dimensions (long *new_dimension*)

11.21.3.127 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::remove_space_dimensions (Variables_Set *vars*)

11.21.3.128 native long parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::space_dimension ()

11.21.3.129 native boolean parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::strictly_contains (Constraints_Product_Grid_NNC_Polyhedron *y*)

11.21.3.130 native void parma_polyhedra_library::Constraints_Product_Grid_-NNC_Polyhedron::swap (Constraints_Product_Grid_NNC_Polyhedron *y*)

11.21.3.131 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::time_elapse_assign (Constraints_Product_Grid_NNC_Polyhedron *p*)

11.21.3.132 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::topological_closure_assign ()

11.21.3.133 native String parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::toString ()

11.21.3.134 native long parma_polyhedra_library::Constraints_Product_Grid_NNC_-Polyhedron::total_memory_in_bytes ()

11.21.3.135 native void parma_polyhedra_library::Constraints_Product_-Grid_NNC_Polyhedron::unconstrain_space_dimension (Variable *var*)

11.21.3.136 native void parma_polyhedra_library::Constraints_Product_Grid_-NNC_Polyhedron::unconstrain_space_dimensions (Variables_Set *vars*)

11.21.3.137 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::upper_bound_assign (Constraints_Product_Grid_NNC_Polyhedron *p*)

11.21.3.138 native boolean parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::upper_bound_assign_if_exact (Constraints_Product_Grid_NNC_Polyhedron *y*)

11.21.3.139 native void parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron::widening_assign (Constraints_Product_Grid_NNC_Polyhedron *y*, By_Reference< Integer > *tp*)

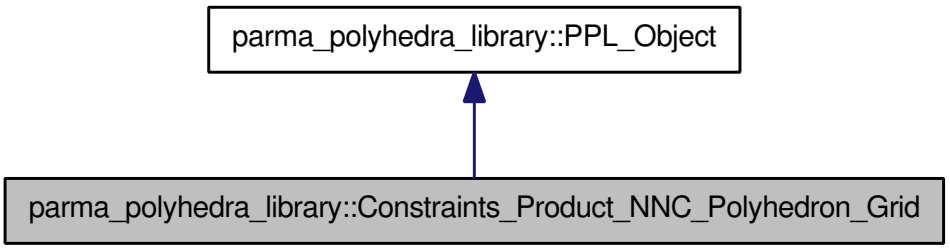
The documentation for this class was generated from the following file:

- Constraints_Product_Grid_NNC_Polyhedron.java

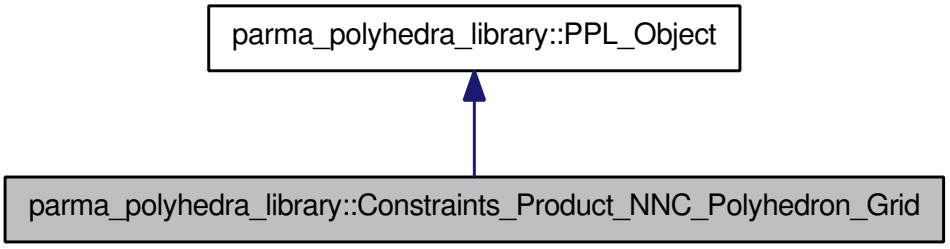
11.22 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Constraints_Product<NNC_Polyhedron,Grid>

Inheritance diagram for parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid:



Collaboration diagram for parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid:



Public Member Functions

- Constraints_Product_NNC_Polyhedron_Grid (long num_dimensions, Degenerate_Element kind)
- Constraints_Product_NNC_Polyhedron_Grid (Int8_Box y)
- Constraints_Product_NNC_Polyhedron_Grid (Int16_Box y)
- Constraints_Product_NNC_Polyhedron_Grid (Int32_Box y)
- Constraints_Product_NNC_Polyhedron_Grid (Int64_Box y)
- Constraints_Product_NNC_Polyhedron_Grid (Uint8_Box y)
- Constraints_Product_NNC_Polyhedron_Grid (Uint16_Box y)
- Constraints_Product_NNC_Polyhedron_Grid (Uint32_Box y)
- Constraints_Product_NNC_Polyhedron_Grid (Uint64_Box y)
- Constraints_Product_NNC_Polyhedron_Grid (Z_Box y)
- Constraints_Product_NNC_Polyhedron_Grid (Rational_Box y)
- Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_int8_t y)
- Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_int16_t y)
- Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_int32_t y)
- Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_int64_t y)
- Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_mpz_class y)
- Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_mpq_class y)
- Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_int8_t y)
- Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_int16_t y)
- Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_int32_t y)
- Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_int64_t y)
- Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_mpz_class y)
- Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_mpq_class y)
- Constraints_Product_NNC_Polyhedron_Grid (C_Polyhedron y)
- Constraints_Product_NNC_Polyhedron_Grid (NNC_Polyhedron y)
- Constraints_Product_NNC_Polyhedron_Grid (Grid y)
- Constraints_Product_NNC_Polyhedron_Grid (Float_Box y)
- Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_float y)
- Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_float y)
- Constraints_Product_NNC_Polyhedron_Grid (Double_Box y)
- Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_double y)
- Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_double y)
- Constraints_Product_NNC_Polyhedron_Grid (Long_Double_Box y)
- Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_long_double y)
- Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_long_double y)
- Constraints_Product_NNC_Polyhedron_Grid (Constraints_Product_NNC_Polyhedron_Grid y)
- Constraints_Product_NNC_Polyhedron_Grid (Int8_Box y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Int16_Box y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Int32_Box y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Int64_Box y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Uint8_Box y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Uint16_Box y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Uint32_Box y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Uint64_Box y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Z_Box y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Rational_Box y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_int8_t y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_int16_t y, Complexity_Class complexity)

- Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_int32_t y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_int64_t y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_mpz_class y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_mpq_class y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (C_Polyhedron y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (NNC_Polyhedron y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Grid y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Float_Box y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_float y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_float y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Double_Box y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_double y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_double y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Long_Double_Box y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_long_double y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Constraints_Product_NNC_Polyhedron_Grid y, Complexity_Class complexity)
- Constraints_Product_NNC_Polyhedron_Grid (Constraint_System cs)
- Constraints_Product_NNC_Polyhedron_Grid (Congruence_System cs)
- native void swap (Constraints_Product_NNC_Polyhedron_Grid y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)

- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Constraints_Product_NNC_Polyhedron_Grid y)
- native boolean strictly_contains (Constraints_Product_NNC_Polyhedron_Grid y)
- native boolean is_disjoint_from (Constraints_Product_NNC_Polyhedron_Grid y)
- native boolean equals (Constraints_Product_NNC_Polyhedron_Grid p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Constraints_Product_NNC_Polyhedron_Grid p)
- native void upper_bound_assign (Constraints_Product_NNC_Polyhedron_Grid p)
- native void difference_assign (Constraints_Product_NNC_Polyhedron_Grid p)
- native void concatenate_assign (Constraints_Product_NNC_Polyhedron_Grid p)
- native void time_elapse_assign (Constraints_Product_NNC_Polyhedron_Grid p)
- native boolean upper_bound_assign_if_exact (Constraints_Product_NNC_Polyhedron_Grid y)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)

- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void widening_assign (Constraints_Product_NNC_Polyhedron_Grid y, By_Reference< Integer > tp)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Constraints_Product_NNC_Polyhedron_Grid ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)

- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Constraints_Product_NNC_Polyhedron_Grid y)
- native void build_cpp_object (Constraints_Product_NNC_Polyhedron_Grid y, Complexity_Class complexity)

11.22.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Constraints_Product<NNC_Polyhedron,Grid>

Definition at line 33 of file Constraints_Product_NNC_Polyhedron_Grid.java.

11.22.2 Constructor & Destructor Documentation

11.22.2.1 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.2 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid () [inline, private]

Definition at line 45 of file Constraints_Product_NNC_Polyhedron_Grid.java.

11.22.2.3 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Int8_Box *y*) [inline]

Definition at line 52 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.4 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Int16_Box *y*) [inline]

Definition at line 56 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.5 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Int32_Box *y*) [inline]

Definition at line 60 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.6 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Int64_Box *y*) [inline]

Definition at line 64 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.7 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Uint8_Box *y*) [inline]

Definition at line 68 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.8 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Uint16_Box *y*) [inline]

Definition at line 72 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.9 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Uint32_Box *y*) [inline]

Definition at line 76 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.10 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Uint64_Box *y*) [inline]

Definition at line 80 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.11 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Z_Box *y*) [inline]

Definition at line 84 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.12 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Rational_Box *y*) [inline]

Definition at line 88 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.13 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.14 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.15 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.16 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.17 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.18 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.19 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.20 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.21 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.22 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.23 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.24 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.25 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (C_Polyhedron *y*) [inline]

Definition at line 140 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.26 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.27 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Grid *y*) [inline]

Definition at line 148 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.28 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Float_Box *y*) [inline]

Definition at line 152 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.29 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_float *y*) [inline]

Definition at line 156 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.30 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.31 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Double_Box *y*) [inline]

Definition at line 164 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.32 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_double *y*) [inline]

Definition at line 168 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.33 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.34 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Long_Double_Box *y*) [inline]

Definition at line 176 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.35 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.36 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.37 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Constraints_Product_NNC_Polyhedron_Grid *y*) [inline]

Definition at line 188 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.38 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.39 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.40 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.41 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.42 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.43 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.44 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.45 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.46 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.47 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.48 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.49 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.50 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.51 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.52 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.53 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.54 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.55 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.56 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.57 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.58 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.59 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.60 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.61 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.62 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.63 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.64 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.65 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.66 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.67 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.68 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.69 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.70 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.71 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 329 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.72 parma_polyhedra_library::Constraints_Product_NNC_-Polyhedron_Grid::Constraints_Product_NNC_Polyhedron_Grid (Constraints_Product_NNC_Polyhedron_Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 333 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.73 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::Constraints_Product_NNC_Polyhedron_Grid (Constraint_System *cs*) [inline]

Definition at line 342 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.2.74 parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::Constraints_Product_NNC_Polyhedron_Grid (Congruence_System *cs*) [inline]

Definition at line 346 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References build_cpp_object().

11.22.3 Member Function Documentation

11.22.3.1 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::add_congruence (Congruence *c*)

11.22.3.2 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::add_congruences (Congruence_System *c*)

11.22.3.3 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::add_constraint (Constraint *c*)

11.22.3.4 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::add_constraints (Constraint_System *c*)

11.22.3.5 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::add_space_dimensions_and_embed (long *m*)

11.22.3.6 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::add_space_dimensions_and_project (long *m*)

11.22.3.7 native long parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::affine_dimension ()

11.22.3.8 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.22.3.9 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.22.3.10 native String parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::ascii_dump ()

11.22.3.11 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.22.3.12 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.22.3.13 native boolean parma_polyhedra_library::Constraints_Product_-NNC_Polyhedron_Grid::bounds_from_above (Linear_Expression *expr*)

11.22.3.14 native boolean parma_polyhedra_library::Constraints_Product_-NNC_Polyhedron_Grid::bounds_from_below (Linear_Expression *expr*)

11.22.3.15 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (Constraints_Product_NNC_Polyhedron_Grid *y*, Complexity_Class *complexity*) `[private]`

11.22.3.16 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (Constraints_Product_NNC_Polyhedron_Grid *y*) `[private]`

11.22.3.17 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.22.3.18 native void parma_polyhedra_library::Constraints_Product_NNC_-Polyhedron_Grid::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.22.3.19 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.22.3.20 native void parma_polyhedra_library::Constraints_Product_NNC_-Polyhedron_Grid::build_cpp_object (BD_Shape_long_double *y*) `[private]`

11.22.3.21 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.22.3.22 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Long_Double_Box *y*) [private]

11.22.3.23 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.22.3.24 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.22.3.25 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.22.3.26 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (BD_Shape_double *y*) [private]

11.22.3.27 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.22.3.28 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Double_Box *y*) [private]

11.22.3.29 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.22.3.30 native void parma_polyhedra_library::Constraints_Product_NNC_-Polyhedron_Grid::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.22.3.31 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.22.3.32 native void parma_polyhedra_library::Constraints_Product_-NNC_Polyhedron_Grid::build_cpp_object (BD_Shape_float *y*) [private]

11.22.3.33 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.22.3.34 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (Float_Box *y*) [private]

11.22.3.35 native void parma_polyhedra_library::Constraints_Product_NNC_-Polyhedron_Grid::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.22.3.36 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (Grid *y*) [private]

11.22.3.37 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.22.3.38 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (NNC_Polyhedron *y*) [private]

11.22.3.39 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.22.3.40 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (C_Polyhedron *y*) [private]

11.22.3.41 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.22.3.42 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.22.3.43 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.22.3.44 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.22.3.45 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.22.3.46 native void parma_polyhedra_library::Constraints_Product_NNC_-Polyhedron_Grid::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.22.3.47 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.22.3.48 native void parma_polyhedra_library::Constraints_Product_NNC_-Polyhedron_Grid::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.22.3.49 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.22.3.50 native void parma_polyhedra_library::Constraints_Product_NNC_-Polyhedron_Grid::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.22.3.51 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.22.3.52 native void parma_polyhedra_library::Constraints_Product_NNC_-Polyhedron_Grid::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.22.3.53 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.22.3.54 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.22.3.55 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.22.3.56 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.22.3.57 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.22.3.58 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.22.3.59 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.22.3.60 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.22.3.61 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.22.3.62 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.22.3.63 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.22.3.64 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.22.3.65 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.22.3.66 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Rational_Box *y*) [private]

11.22.3.67 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.22.3.68 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Z_Box *y*) [private]

11.22.3.69 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.22.3.70 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Uint64_Box *y*) [private]

11.22.3.71 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.22.3.72 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Uint32_Box *y*) [private]

11.22.3.73 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.22.3.74 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Uint16_Box *y*) [private]

11.22.3.75 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.22.3.76 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Uint8_Box *y*) [private]

11.22.3.77 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.22.3.78 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (Int64_Box *y*) [private]

11.22.3.79 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.22.3.80 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (Int32_Box *y*) [private]

11.22.3.81 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.22.3.82 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (Int16_Box *y*) [private]

11.22.3.83 native void parma_polyhedra_library::Constraints_Product_NNC_-Polyhedron_Grid::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.22.3.84 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::build_cpp_object (Int8_Box *y*) [private]

11.22.3.85 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.22.3.86 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Congruence_System *cs*) [private]

11.22.3.87 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Constraints_Product_NNC_Polyhedron_Grid().

11.22.3.88 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::concatenate_assign (Constraints_Product_NNC_Polyhedron_Grid *p*)

11.22.3.89 native boolean parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::constrains (Variable *var*)

11.22.3.90 native boolean parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::contains (Constraints_Product_NNC_Polyhedron_Grid *y*)

11.22.3.91 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::difference_assign (Constraints_Product_NNC_Polyhedron_Grid *p*)

11.22.3.92 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::drop_some_non_integer_points (Integer *complexity_threshold*)

11.22.3.93 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.22.3.94 boolean parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::equals (Object *y*) [inline]

Definition at line 444 of file Constraints_Product_NNC_Polyhedron_Grid.java.

References equals().

11.22.3.95 native boolean parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::equals (Constraints_Product_NNC_Polyhedron_Grid *p*)

Referenced by equals().

11.22.3.96 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::expand_space_dimension (Variable *var*, long *m*)

11.22.3.97 native long parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::external_memory_in_bytes ()

11.22.3.98 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::finalize () [protected]

11.22.3.99 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.22.3.100 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::free ()

11.22.3.101 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.22.3.102 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.22.3.103 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.22.3.104 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.22.3.105 native int parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::hashCode ()

11.22.3.106 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::intersection_assign (Constraints_Product_NNC_Polyhedron_Grid *p*)

11.22.3.107 native boolean parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::is_bounded ()

11.22.3.108 native boolean parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::is_discrete ()

11.22.3.109 native boolean parma_polyhedra_library::Constraints_Product_NNC_-Polyhedron_Grid::is_disjoint_from (Constraints_Product_NNC_Polyhedron_Grid *y*)

11.22.3.110 native boolean parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::is_empty ()

11.22.3.111 native boolean parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::is_topologically_closed ()

11.22.3.112 native boolean parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::is_universe ()

11.22.3.113 native void parma_polyhedra_library::Constraints_Product_-NNC_Polyhedron_Grid::map_space_dimensions (Partial_Function *pfunc*)

11.22.3.114 native boolean parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.22.3.115 native boolean parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.22.3.116 native boolean parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.22.3.117 native boolean parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.22.3.118 native boolean parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::OK ()

11.22.3.119 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::refine_with_congruence (Congruence *c*)

11.22.3.120 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::refine_with_congruences (Congruence_System *c*)

11.22.3.121 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::refine_with_constraint (Constraint *c*)

11.22.3.122 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::refine_with_constraints (Constraint_System *c*)

11.22.3.123 native Poly_Con_Relation parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::relation_with (Congruence *c*)

11.22.3.124 native Poly_Gen_Relation parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::relation_with (Generator *c*)

11.22.3.125 native Poly_Con_Relation parma_polyhedra_library::Constraints_-Product_NNC_Polyhedron_Grid::relation_with (Constraint *c*)

11.22.3.126 native void parma_polyhedra_library::Constraints_Product_-NNC_Polyhedron_Grid::remove_higher_space_dimensions (long *new_dimension*)

11.22.3.127 native void parma_polyhedra_library::Constraints_Product_-NNC_Polyhedron_Grid::remove_space_dimensions (Variables_Set *vars*)

11.22.3.128 native long parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::space_dimension ()

11.22.3.129 native boolean parma_polyhedra_library::Constraints_Product_NNC_-Polyhedron_Grid::strictly_contains (Constraints_Product_NNC_Polyhedron_Grid *y*)

11.22.3.130 native void parma_polyhedra_library::Constraints_Product_NNC_-Polyhedron_Grid::swap (Constraints_Product_NNC_Polyhedron_Grid *y*)

11.22.3.131 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::time_elapse_assign (Constraints_Product_NNC_Polyhedron_Grid *p*)

11.22.3.132 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_-Grid::topological_closure_assign ()

11.22.3.133 native String parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::toString ()

11.22.3.134 native long parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::total_memory_in_bytes ()

11.22.3.135 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::unconstrain_space_dimension (Variable *var*)

11.22.3.136 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::unconstrain_space_dimensions (Variables_Set *vars*)

11.22.3.137 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::upper_bound_assign (Constraints_Product_NNC_Polyhedron_Grid *p*)

11.22.3.138 native boolean parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::upper_bound_assign_if_exact (Constraints_Product_NNC_Polyhedron_Grid *y*)

11.22.3.139 native void parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid::widening_assign (Constraints_Product_NNC_Polyhedron_Grid *y*, By_Reference< Integer > *tp*)

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

- Constraints_Product_NNC_Polyhedron_Grid.java

11.23 Parma_Polyhedra_Library::Interfaces::Java::deterministic_timeout_exception Class Reference

`#include <ppl_java_common.defs.hh>`

Public Member Functions

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

11.23.1 Detailed Description

Definition at line 133 of file ppl_java_common.defs.hh.

11.23.2 Member Function Documentation

11.23.2.1 int Parma_Polyhedra_Library::Interfaces::Java::deterministic_timeout_exception::priority () const [inline]

Definition at line 139 of file ppl_java_common.defs.hh.

11.23.2.2 void Parma_Polyhedra_Library::Interfaces::Java::deterministic_timeout_exception::throw_me () const [inline]

Definition at line 136 of file ppl_java_common.defs.hh.

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

- ppl_java_common.defs.hh

11.24 parma_polyhedra_library::Domain_Error_Exception Class Reference

Exceptions caused by domain errors.

Public Member Functions

- Domain_Error_Exception (String s)
  Constructor.

11.24.1 Detailed Description

Exceptions caused by domain errors.

Definition at line 28 of file Domain_Error_Exception.java.

11.24.2 Constructor & Destructor Documentation

11.24.2.1 parma_polyhedra_library::Domain_Error_Exception::Domain_Error_Exception (String *s*) [inline]

Constructor.

Definition at line 30 of file Domain_Error_Exception.java.

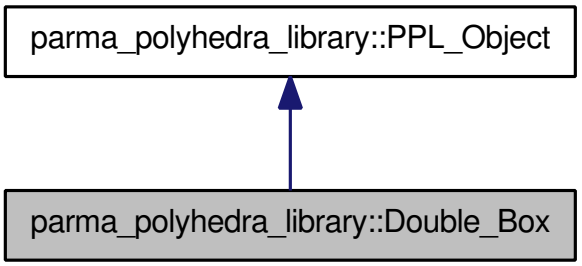
The documentation for this class was generated from the following file:

- Domain_Error_Exception.java

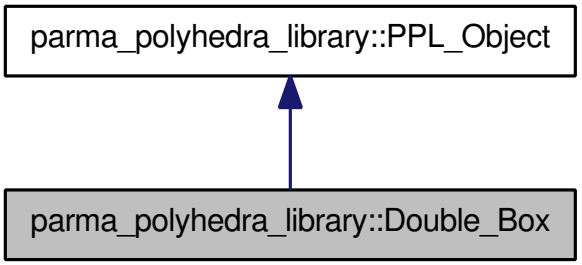
11.25 parma_polyhedra_library::Double_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Double_Box.

Inheritance diagram for parma_polyhedra_library::Double_Box:



Collaboration diagram for parma_polyhedra_library::Double_Box:



Public Member Functions

- Double_Box (long num_dimensions, Degenerate_Element kind)
- Double_Box (Int8_Box y)
- Double_Box (Int16_Box y)
- Double_Box (Int32_Box y)
- Double_Box (Int64_Box y)
- Double_Box (Uint8_Box y)
- Double_Box (Uint16_Box y)
- Double_Box (Uint32_Box y)
- Double_Box (Uint64_Box y)
- Double_Box (Z_Box y)
- Double_Box (Rational_Box y)
- Double_Box (BD_Shape_int8_t y)
- Double_Box (BD_Shape_int16_t y)

- Double_Box (BD_Shape_int32_t y)
- Double_Box (BD_Shape_int64_t y)
- Double_Box (BD_Shape_mpz_class y)
- Double_Box (BD_Shape_mpq_class y)
- Double_Box (Octagonal_Shape_int8_t y)
- Double_Box (Octagonal_Shape_int16_t y)
- Double_Box (Octagonal_Shape_int32_t y)
- Double_Box (Octagonal_Shape_int64_t y)
- Double_Box (Octagonal_Shape_mpz_class y)
- Double_Box (Octagonal_Shape_mpq_class y)
- Double_Box (C_Polyhedron y)
- Double_Box (NNC_Polyhedron y)
- Double_Box (Grid y)
- Double_Box (Float_Box y)
- Double_Box (BD_Shape_float y)
- Double_Box (Octagonal_Shape_float y)
- Double_Box (Double_Box y)
- Double_Box (BD_Shape_double y)
- Double_Box (Octagonal_Shape_double y)
- Double_Box (Long_Double_Box y)
- Double_Box (BD_Shape_long_double y)
- Double_Box (Octagonal_Shape_long_double y)
- Double_Box (Int8_Box y, Complexity_Class complexity)
- Double_Box (Int16_Box y, Complexity_Class complexity)
- Double_Box (Int32_Box y, Complexity_Class complexity)
- Double_Box (Int64_Box y, Complexity_Class complexity)
- Double_Box (Uint8_Box y, Complexity_Class complexity)
- Double_Box (Uint16_Box y, Complexity_Class complexity)
- Double_Box (Uint32_Box y, Complexity_Class complexity)
- Double_Box (Uint64_Box y, Complexity_Class complexity)
- Double_Box (Z_Box y, Complexity_Class complexity)
- Double_Box (Rational_Box y, Complexity_Class complexity)
- Double_Box (BD_Shape_int8_t y, Complexity_Class complexity)
- Double_Box (BD_Shape_int16_t y, Complexity_Class complexity)
- Double_Box (BD_Shape_int32_t y, Complexity_Class complexity)
- Double_Box (BD_Shape_int64_t y, Complexity_Class complexity)
- Double_Box (BD_Shape_mpz_class y, Complexity_Class complexity)
- Double_Box (BD_Shape_mpq_class y, Complexity_Class complexity)
- Double_Box (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Double_Box (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Double_Box (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Double_Box (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Double_Box (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Double_Box (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Double_Box (C_Polyhedron y, Complexity_Class complexity)
- Double_Box (NNC_Polyhedron y, Complexity_Class complexity)
- Double_Box (Grid y, Complexity_Class complexity)
- Double_Box (Float_Box y, Complexity_Class complexity)
- Double_Box (BD_Shape_float y, Complexity_Class complexity)
- Double_Box (Octagonal_Shape_float y, Complexity_Class complexity)

- Double_Box (Double_Box y, Complexity_Class complexity)
- Double_Box (BD_Shape_double y, Complexity_Class complexity)
- Double_Box (Octagonal_Shape_double y, Complexity_Class complexity)
- Double_Box (Long_Double_Box y, Complexity_Class complexity)
- Double_Box (BD_Shape_long_double y, Complexity_Class complexity)
- Double_Box (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Double_Box (Constraint_System cs)
- Double_Box (Congruence_System cs)
- Double_Box (Generator_System cs)
- native void swap (Double_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Double_Box y)
- native boolean strictly_contains (Double_Box y)
- native boolean is_disjoint_from (Double_Box y)
- native boolean equals (Double_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)

- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Double_Box p)
- native void upper_bound_assign (Double_Box p)
- native void difference_assign (Double_Box p)
- native void concatenate_assign (Double_Box p)
- native void time_elapse_assign (Double_Box p)
- native boolean upper_bound_assign_if_exact (Double_Box y)
- native boolean simplify_using_context_assign (Double_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void CC76_widening_assign (Double_Box y, By_Reference< Integer > tp)
- native void widening_assign (Double_Box y, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Double_Box y, Constraint_System cs, By_Reference< Integer > tp)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native String toString ()

Static Public Member Functions

- static native Pair< Double_Box, Pointset_Powerset_NNC_Polyhedron > linear_partition (Double_Box p, Double_Box q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Double_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)

- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.25.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Double_Box.

Definition at line 33 of file Double_Box.java.

11.25.2 Constructor & Destructor Documentation

11.25.2.1 parma_polyhedra_library::Double_Box::Double_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Double_Box.java.

References build_cpp_object().

11.25.2.2 parma_polyhedra_library::Double_Box::Double_Box () [inline, private]

Definition at line 45 of file Double_Box.java.

11.25.2.3 parma_polyhedra_library::Double_Box::Double_Box (Int8_Box *y*) [inline]

Definition at line 52 of file Double_Box.java.

References build_cpp_object().

11.25.2.4 parma_polyhedra_library::Double_Box::Double_Box (Int16_Box *y*) [inline]

Definition at line 56 of file Double_Box.java.

References build_cpp_object().

11.25.2.5 parma_polyhedra_library::Double_Box::Double_Box (Int32_Box *y*) [inline]

Definition at line 60 of file Double_Box.java.

References build_cpp_object().

11.25.2.6 parma_polyhedra_library::Double_Box::Double_Box (Int64_Box *y*) [inline]

Definition at line 64 of file Double_Box.java.

References build_cpp_object().

11.25.2.7 parma_polyhedra_library::Double_Box::Double_Box (Uint8_Box *y*) [inline]

Definition at line 68 of file Double_Box.java.

References build_cpp_object().

11.25.2.8 parma_polyhedra_library::Double_Box::Double_Box (Uint16_Box *y*) [inline]

Definition at line 72 of file Double_Box.java.

References build_cpp_object().

11.25.2.9 parma_polyhedra_library::Double_Box::Double_Box (Uint32_Box *y*) [inline]

Definition at line 76 of file Double_Box.java.

References build_cpp_object().

11.25.2.10 parma_polyhedra_library::Double_Box::Double_Box (Uint64_Box *y*) [inline]

Definition at line 80 of file Double_Box.java.

References build_cpp_object().

11.25.2.11 parma_polyhedra_library::Double_Box::Double_Box (Z_Box *y*) [inline]

Definition at line 84 of file Double_Box.java.

References build_cpp_object().

11.25.2.12 parma_polyhedra_library::Double_Box::Double_Box (Rational_Box *y*) [inline]

Definition at line 88 of file Double_Box.java.

References build_cpp_object().

11.25.2.13 parma_polyhedra_library::Double_Box::Double_Box (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Double_Box.java.

References build_cpp_object().

11.25.2.14 parma_polyhedra_library::Double_Box::Double_Box (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Double_Box.java.

References build_cpp_object().

11.25.2.15 parma_polyhedra_library::Double_Box::Double_Box (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Double_Box.java.

References build_cpp_object().

11.25.2.16 parma_polyhedra_library::Double_Box::Double_Box (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Double_Box.java.

References build_cpp_object().

11.25.2.17 parma_polyhedra_library::Double_Box::Double_Box (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Double_Box.java.

References build_cpp_object().

11.25.2.18 parma_polyhedra_library::Double_Box::Double_Box (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Double_Box.java.

References build_cpp_object().

11.25.2.19 parma_polyhedra_library::Double_Box::Double_Box (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Double_Box.java.

References build_cpp_object().

11.25.2.20 parma_polyhedra_library::Double_Box::Double_Box (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Double_Box.java.

References build_cpp_object().

11.25.2.21 parma_polyhedra_library::Double_Box::Double_Box (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Double_Box.java.

References build_cpp_object().

11.25.2.22 parma_polyhedra_library::Double_Box::Double_Box (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Double_Box.java.

References build_cpp_object().

11.25.2.23 parma_polyhedra_library::Double_Box::Double_Box (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Double_Box.java.

References build_cpp_object().

11.25.2.24 parma_polyhedra_library::Double_Box::Double_Box (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Double_Box.java.

References build_cpp_object().

11.25.2.25 parma_polyhedra_library::Double_Box::Double_Box (C_Polyhedron *y*) [inline]

Definition at line 140 of file Double_Box.java.

References build_cpp_object().

11.25.2.26 parma_polyhedra_library::Double_Box::Double_Box (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Double_Box.java.

References build_cpp_object().

11.25.2.27 parma_polyhedra_library::Double_Box::Double_Box (Grid *y*) [inline]

Definition at line 148 of file Double_Box.java.

References build_cpp_object().

11.25.2.28 parma_polyhedra_library::Double_Box::Double_Box (Float_Box *y*) [inline]

Definition at line 152 of file Double_Box.java.

References build_cpp_object().

11.25.2.29 parma_polyhedra_library::Double_Box::Double_Box (BD_Shape_float *y*) [inline]

Definition at line 156 of file Double_Box.java.

References build_cpp_object().

11.25.2.30 parma_polyhedra_library::Double_Box::Double_Box (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Double_Box.java.

References build_cpp_object().

11.25.2.31 parma_polyhedra_library::Double_Box::Double_Box (Double_Box *y*) [inline]

Definition at line 164 of file Double_Box.java.

References build_cpp_object().

11.25.2.32 parma_polyhedra_library::Double_Box::Double_Box (BD_Shape_double *y*) [inline]

Definition at line 168 of file Double_Box.java.

References build_cpp_object().

11.25.2.33 parma_polyhedra_library::Double_Box::Double_Box (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Double_Box.java.

References build_cpp_object().

11.25.2.34 parma_polyhedra_library::Double_Box::Double_Box (Long_Double_Box *y*) [inline]

Definition at line 176 of file Double_Box.java.

References build_cpp_object().

11.25.2.35 parma_polyhedra_library::Double_Box::Double_Box (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Double_Box.java.

References build_cpp_object().

11.25.2.36 parma_polyhedra_library::Double_Box::Double_Box (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Double_Box.java.

References build_cpp_object().

11.25.2.37 parma_polyhedra_library::Double_Box::Double_Box (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Double_Box.java.

References build_cpp_object().

11.25.2.38 parma_polyhedra_library::Double_Box::Double_Box (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Double_Box.java.

References build_cpp_object().

11.25.2.39 parma_polyhedra_library::Double_Box::Double_Box (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Double_Box.java.

References build_cpp_object().

11.25.2.40 parma_polyhedra_library::Double_Box::Double_Box (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Double_Box.java.

References build_cpp_object().

11.25.2.41 parma_polyhedra_library::Double_Box::Double_Box (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Double_Box.java.

References build_cpp_object().

11.25.2.42 parma_polyhedra_library::Double_Box::Double_Box (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Double_Box.java.

References build_cpp_object().

11.25.2.43 parma_polyhedra_library::Double_Box::Double_Box (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Double_Box.java.

References build_cpp_object().

11.25.2.44 parma_polyhedra_library::Double_Box::Double_Box (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Double_Box.java.

References build_cpp_object().

11.25.2.45 parma_polyhedra_library::Double_Box::Double_Box (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Double_Box.java.

References build_cpp_object().

11.25.2.46 parma_polyhedra_library::Double_Box::Double_Box (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Double_Box.java.

References build_cpp_object().

11.25.2.47 parma_polyhedra_library::Double_Box::Double_Box (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Double_Box.java.

References build_cpp_object().

11.25.2.48 parma_polyhedra_library::Double_Box::Double_Box (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Double_Box.java.

References build_cpp_object().

11.25.2.49 parma_polyhedra_library::Double_Box::Double_Box (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Double_Box.java.

References build_cpp_object().

11.25.2.50 parma_polyhedra_library::Double_Box::Double_Box (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Double_Box.java.

References build_cpp_object().

11.25.2.51 parma_polyhedra_library::Double_Box::Double_Box (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Double_Box.java.

References build_cpp_object().

11.25.2.52 parma_polyhedra_library::Double_Box::Double_Box (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Double_Box.java.

References build_cpp_object().

11.25.2.53 parma_polyhedra_library::Double_Box::Double_Box (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Double_Box.java.

References build_cpp_object().

11.25.2.54 parma_polyhedra_library::Double_Box::Double_Box (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Double_Box.java.

References build_cpp_object().

11.25.2.55 parma_polyhedra_library::Double_Box::Double_Box (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Double_Box.java.

References build_cpp_object().

11.25.2.56 parma_polyhedra_library::Double_Box::Double_Box (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Double_Box.java.

References build_cpp_object().

11.25.2.57 parma_polyhedra_library::Double_Box::Double_Box (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Double_Box.java.

References build_cpp_object().

11.25.2.58 parma_polyhedra_library::Double_Box::Double_Box (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Double_Box.java.

References build_cpp_object().

11.25.2.59 parma_polyhedra_library::Double_Box::Double_Box (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Double_Box.java.

References build_cpp_object().

11.25.2.60 parma_polyhedra_library::Double_Box::Double_Box (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Double_Box.java.

References build_cpp_object().

11.25.2.61 parma_polyhedra_library::Double_Box::Double_Box (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Double_Box.java.

References build_cpp_object().

11.25.2.62 parma_polyhedra_library::Double_Box::Double_Box (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Double_Box.java.

References build_cpp_object().

11.25.2.63 parma_polyhedra_library::Double_Box::Double_Box (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Double_Box.java.

References build_cpp_object().

11.25.2.64 parma_polyhedra_library::Double_Box::Double_Box (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Double_Box.java.

References build_cpp_object().

11.25.2.65 parma_polyhedra_library::Double_Box::Double_Box (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Double_Box.java.

References build_cpp_object().

11.25.2.66 parma_polyhedra_library::Double_Box::Double_Box (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Double_Box.java.

References build_cpp_object().

11.25.2.67 parma_polyhedra_library::Double_Box::Double_Box (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Double_Box.java.

References build_cpp_object().

11.25.2.68 parma_polyhedra_library::Double_Box::Double_Box (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Double_Box.java.

References build_cpp_object().

11.25.2.69 parma_polyhedra_library::Double_Box::Double_Box (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Double_Box.java.

References build_cpp_object().

11.25.2.70 parma_polyhedra_library::Double_Box::Double_Box (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Double_Box.java.

References build_cpp_object().

11.25.2.71 parma_polyhedra_library::Double_Box::Double_Box (Constraint_System *cs*) [inline]

Definition at line 334 of file Double_Box.java.

References build_cpp_object().

11.25.2.72 parma_polyhedra_library::Double_Box::Double_Box (Congruence_System *cs*) [inline]

Definition at line 338 of file Double_Box.java.

References build_cpp_object().

11.25.2.73 parma_polyhedra_library::Double_Box::Double_Box (Generator_System *cs*) [inline]

Definition at line 342 of file Double_Box.java.

References build_cpp_object().

11.25.3 Member Function Documentation

11.25.3.1 native void parma_polyhedra_library::Double_Box::add_congruence (Congruence *c*)

11.25.3.2 native void parma_polyhedra_library::Double_Box::add_congruences (Congruence_System *c*)

11.25.3.3 native void parma_polyhedra_library::Double_Box::add_constraint (Constraint *c*)

11.25.3.4 native void parma_polyhedra_library::Double_Box::add_constraints (Constraint_System *c*)

11.25.3.5 native void parma_polyhedra_library::Double_Box::add_space_dimensions_and_embed (long *m*)

11.25.3.6 native void parma_polyhedra_library::Double_Box::add_space_dimensions_and_project (long *m*)

11.25.3.7 native long parma_polyhedra_library::Double_Box::affine_dimension ()

11.25.3.8 native void parma_polyhedra_library::Double_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.25.3.9 native void parma_polyhedra_library::Double_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.25.3.10 native String parma_polyhedra_library::Double_Box::ascii_dump ()

11.25.3.11 native void parma_polyhedra_library::Double_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.25.3.12 native void parma_polyhedra_library::Double_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.25.3.13 native boolean parma_polyhedra_library::Double_Box::bounds_from_above (Linear_Expression *expr*)

11.25.3.14 native boolean parma_polyhedra_library::Double_Box::bounds_from_below (Linear_Expression *expr*)

11.25.3.15 native void parma_polyhedra_library::Double_Box::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.25.3.16 native void parma_polyhedra_library::Double_Box::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.25.3.17 native void parma_polyhedra_library::Double_Box::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.25.3.18 native void parma_polyhedra_library::Double_Box::build_cpp_object (BD_Shape_long_double *y*) [private]

11.25.3.19 native void parma_polyhedra_library::Double_Box::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.25.3.20 native void parma_polyhedra_library::Double_Box::build_cpp_object (Long_Double_Box *y*) [private]

11.25.3.21 native void parma_polyhedra_library::Double_Box::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.25.3.22 native void parma_polyhedra_library::Double_Box::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.25.3.23 native void parma_polyhedra_library::Double_Box::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.25.3.24 native void parma_polyhedra_library::Double_Box::build_cpp_object (BD_Shape_double *y*) [private]

11.25.3.25 native void parma_polyhedra_library::Double_Box::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.25.3.26 native void parma_polyhedra_library::Double_Box::build_cpp_object (Double_Box *y*) [private]

11.25.3.27 native void parma_polyhedra_library::Double_Box::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.25.3.28 native void parma_polyhedra_library::Double_Box::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.25.3.29 native void parma_polyhedra_library::Double_Box::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.25.3.30 native void parma_polyhedra_library::Double_Box::build_cpp_object (BD_Shape_float *y*) [private]

11.25.3.31 native void parma_polyhedra_library::Double_Box::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.25.3.32 native void parma_polyhedra_library::Double_Box::build_cpp_object (Float_Box *y*) [private]

11.25.3.33 native void parma_polyhedra_library::Double_Box::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.25.3.34 native void parma_polyhedra_library::Double_Box::build_cpp_object (Grid *y*) [private]

11.25.3.35 native void parma_polyhedra_library::Double_Box::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.25.3.36 native void parma_polyhedra_library::Double_Box::build_cpp_object (NNC_Polyhedron *y*) [private]

11.25.3.37 native void parma_polyhedra_library::Double_Box::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.25.3.38 native void parma_polyhedra_library::Double_Box::build_cpp_object (C_Polyhedron *y*) [private]

11.25.3.39 native void parma_polyhedra_library::Double_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.25.3.40 native void parma_polyhedra_library::Double_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.25.3.41 native void parma_polyhedra_library::Double_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.25.3.42 native void parma_polyhedra_library::Double_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.25.3.43 native void parma_polyhedra_library::Double_Box::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.25.3.44 native void parma_polyhedra_library::Double_Box::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.25.3.45 native void parma_polyhedra_library::Double_Box::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.25.3.46 native void parma_polyhedra_library::Double_Box::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.25.3.47 native void parma_polyhedra_library::Double_Box::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.25.3.48 native void parma_polyhedra_library::Double_Box::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.25.3.49 native void parma_polyhedra_library::Double_Box::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.25.3.50 native void parma_polyhedra_library::Double_Box::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.25.3.51 native void parma_polyhedra_library::Double_Box::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.25.3.52 native void parma_polyhedra_library::Double_Box::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.25.3.53 native void parma_polyhedra_library::Double_Box::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.25.3.54 native void parma_polyhedra_library::Double_Box::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.25.3.55 native void parma_polyhedra_library::Double_Box::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.25.3.56 native void parma_polyhedra_library::Double_Box::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.25.3.57 native void parma_polyhedra_library::Double_Box::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.25.3.58 native void parma_polyhedra_library::Double_Box::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.25.3.59 native void parma_polyhedra_library::Double_Box::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.25.3.60 native void parma_polyhedra_library::Double_Box::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.25.3.61 native void parma_polyhedra_library::Double_Box::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.25.3.62 native void parma_polyhedra_library::Double_Box::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.25.3.63 native void parma_polyhedra_library::Double_Box::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.25.3.64 native void parma_polyhedra_library::Double_Box::build_cpp_object (Rational_Box *y*) [private]

11.25.3.65 native void parma_polyhedra_library::Double_Box::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.25.3.66 native void parma_polyhedra_library::Double_Box::build_cpp_object (Z_Box *y*) [private]

11.25.3.67 native void parma_polyhedra_library::Double_Box::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.25.3.68 native void parma_polyhedra_library::Double_Box::build_cpp_object (Uint64_Box *y*) [private]

11.25.3.69 native void parma_polyhedra_library::Double_Box::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.25.3.70 native void parma_polyhedra_library::Double_Box::build_cpp_object (Uint32_Box *y*) [private]

11.25.3.71 native void parma_polyhedra_library::Double_Box::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.25.3.72 native void parma_polyhedra_library::Double_Box::build_cpp_object (Uint16_Box *y*) [private]

11.25.3.73 native void parma_polyhedra_library::Double_Box::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.25.3.74 native void parma_polyhedra_library::Double_Box::build_cpp_object (Uint8_Box *y*) [private]

11.25.3.75 native void parma_polyhedra_library::Double_Box::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.25.3.76 native void parma_polyhedra_library::Double_Box::build_cpp_object (Int64_Box *y*) [private]

11.25.3.77 native void parma_polyhedra_library::Double_Box::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.25.3.78 native void parma_polyhedra_library::Double_Box::build_cpp_object (Int32_Box *y*) [private]

11.25.3.79 native void parma_polyhedra_library::Double_Box::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.25.3.80 native void parma_polyhedra_library::Double_Box::build_cpp_object (Int16_Box *y*) [private]

11.25.3.81 native void parma_polyhedra_library::Double_Box::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.25.3.82 native void parma_polyhedra_library::Double_Box::build_cpp_object (Int8_Box *y*) [private]

11.25.3.83 native void parma_polyhedra_library::Double_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.25.3.84 native void parma_polyhedra_library::Double_Box::build_cpp_object (Generator_System *cs*) [private]

11.25.3.85 native void parma_polyhedra_library::Double_Box::build_cpp_object (Congruence_System *cs*) [private]

11.25.3.86 native void parma_polyhedra_library::Double_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Double_Box().

11.25.3.87 native void parma_polyhedra_library::Double_Box::CC76_widening_assign (Double_Box *y*, By_Reference< Integer > *tp*)

11.25.3.88 native void parma_polyhedra_library::Double_Box::concatenate_assign (Double_Box *p*)

11.25.3.89 native Congruence_System parma_polyhedra_library::Double_Box::congruences ()

11.25.3.90 native boolean parma_polyhedra_library::Double_Box::constrains (Variable *var*)

11.25.3.91 native Constraint_System parma_polyhedra_library::Double_Box::constraints ()

11.25.3.92 native boolean parma_polyhedra_library::Double_Box::contains (Double_Box *y*)

11.25.3.93 native boolean parma_polyhedra_library::Double_Box::contains_integer_point ()

11.25.3.94 native void parma_polyhedra_library::Double_Box::difference_assign (Double_Box *p*)

11.25.3.95 native void parma_polyhedra_library::Double_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.25.3.96 native void parma_polyhedra_library::Double_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.25.3.97 boolean parma_polyhedra_library::Double_Box::equals (Object *y*) `[inline]`

Definition at line 465 of file Double_Box.java.

References equals().

11.25.3.98 native boolean parma_polyhedra_library::Double_Box::equals (Double_Box *p*)

Referenced by equals().

11.25.3.99 native void parma_polyhedra_library::Double_Box::expand_space_dimension (Variable *var*, long *m*)

11.25.3.100 native long parma_polyhedra_library::Double_Box::external_memory_in_bytes ()

11.25.3.101 native void parma_polyhedra_library::Double_Box::finalize () [protected]

11.25.3.102 native void parma_polyhedra_library::Double_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.25.3.103 native void parma_polyhedra_library::Double_Box::free ()

11.25.3.104 native boolean parma_polyhedra_library::Double_Box::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.25.3.105 native void parma_polyhedra_library::Double_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.25.3.106 native void parma_polyhedra_library::Double_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.25.3.107 native void parma_polyhedra_library::Double_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.25.3.108 native void parma_polyhedra_library::Double_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.25.3.109 native void parma_polyhedra_library::Double_Box::intersection_assign (Double_Box *p*)

11.25.3.110 native boolean parma_polyhedra_library::Double_Box::is_bounded ()

11.25.3.111 native boolean parma_polyhedra_library::Double_Box::is_discrete ()

11.25.3.112 native boolean parma_polyhedra_library::Double_Box::is_disjoint_from (Double_Box *y*)

11.25.3.113 native boolean parma_polyhedra_library::Double_Box::is_empty ()

11.25.3.114 native boolean parma_polyhedra_library::Double_Box::is_topologically_closed ()

11.25.3.115 native boolean parma_polyhedra_library::Double_Box::is_universe ()

11.25.3.116 native void parma_polyhedra_library::Double_Box::limited_CC76_extrapolation_assign (Double_Box *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.25.3.117 static native Pair<Double_Box, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Double_Box::linear_partition (Double_Box *p*, Double_Box *q*) `[static]`

11.25.3.118 native void parma_polyhedra_library::Double_Box::map_space_dimensions (Partial_Function *pfunc*)

11.25.3.119 native boolean parma_polyhedra_library::Double_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.25.3.120 native boolean parma_polyhedra_library::Double_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.25.3.121 native boolean parma_polyhedra_library::Double_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.25.3.122 native boolean parma_polyhedra_library::Double_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.25.3.123 native Congruence_System parma_polyhedra_library::Double_Box::minimized_congruences ()

11.25.3.124 native Constraint_System parma_polyhedra_library::Double_Box::minimized_constraints ()

11.25.3.125 native boolean parma_polyhedra_library::Double_Box::OK ()

11.25.3.126 native void parma_polyhedra_library::Double_Box::refine_with_congruence (Congruence *c*)

11.25.3.127 native void parma_polyhedra_library::Double_Box::refine_with_congruences (Congruence_System *c*)

11.25.3.128 native void parma_polyhedra_library::Double_Box::refine_with_constraint (Constraint *c*)

11.25.3.129 native void parma_polyhedra_library::Double_Box::refine_with_constraints (Constraint_System *c*)

11.25.3.130 native Poly_Con_Relation parma_polyhedra_library::Double_Box::relation_with (Congruence *c*)

11.25.3.131 native Poly_Gen_Relation parma_polyhedra_library::Double_Box::relation_with (Generator *c*)

11.25.3.132 native Poly_Con_Relation parma_polyhedra_library::Double_Box::relation_with (Constraint *c*)

11.25.3.133 native void parma_polyhedra_library::Double_Box::remove_higher_space_dimensions (long *new_dimension*)

11.25.3.134 native void parma_polyhedra_library::Double_Box::remove_space_dimensions (Variables_Set *vars*)

11.25.3.135 native boolean parma_polyhedra_library::Double_Box::simplify_using_context_assign (Double_Box *p*)

11.25.3.136 native long parma_polyhedra_library::Double_Box::space_dimension ()

11.25.3.137 native boolean parma_polyhedra_library::Double_Box::strictly_contains (Double_Box *y*)

11.25.3.138 native void parma_polyhedra_library::Double_Box::swap (Double_Box *y*)

11.25.3.139 native void parma_polyhedra_library::Double_Box::time_elapse_assign (Double_Box *p*)

11.25.3.140 native void parma_polyhedra_library::Double_Box::topological_closure_assign ()

11.25.3.141 native String parma_polyhedra_library::Double_Box::toString ()

11.25.3.142 native long parma_polyhedra_library::Double_Box::total_memory_in_bytes ()

11.25.3.143 native void parma_polyhedra_library::Double_Box::unconstrain_space_dimension (Variable *var*)

11.25.3.144 native void parma_polyhedra_library::Double_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.25.3.145 native void parma_polyhedra_library::Double_Box::upper_bound_assign (Double_Box *p*)

11.25.3.146 native boolean parma_polyhedra_library::Double_Box::upper_bound_assign_if_exact (Double_Box *y*)

11.25.3.147 native void parma_polyhedra_library::Double_Box::widening_assign (Double_Box *y*, By_Reference< Integer > *tp*)

11.25.3.148 native void parma_polyhedra_library::Double_Box::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

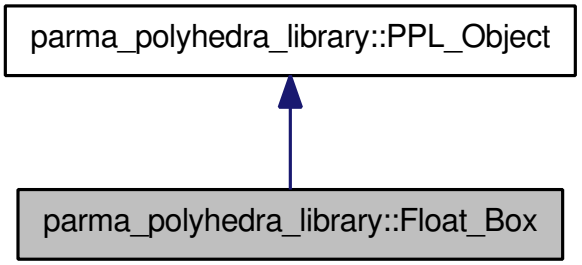
The documentation for this class was generated from the following file:

- Double_Box.java

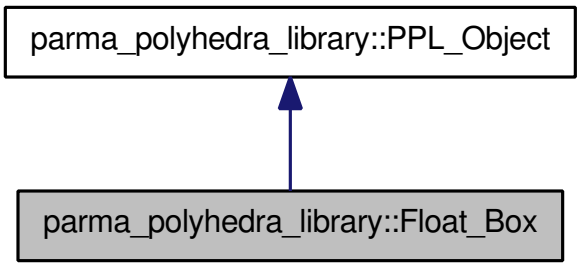
11.26 parma_polyhedra_library::Float_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Float_Box.

Inheritance diagram for parma_polyhedra_library::Float_Box:



Collaboration diagram for parma_polyhedra_library::Float_Box:



Public Member Functions

- Float_Box (long num_dimensions, Degenerate_Element kind)
- Float_Box (Int8_Box y)
- Float_Box (Int16_Box y)
- Float_Box (Int32_Box y)

- Float_Box (Int64_Box y)
- Float_Box (Uint8_Box y)
- Float_Box (Uint16_Box y)
- Float_Box (Uint32_Box y)
- Float_Box (Uint64_Box y)
- Float_Box (Z_Box y)
- Float_Box (Rational_Box y)
- Float_Box (BD_Shape_int8_t y)
- Float_Box (BD_Shape_int16_t y)
- Float_Box (BD_Shape_int32_t y)
- Float_Box (BD_Shape_int64_t y)
- Float_Box (BD_Shape_mpz_class y)
- Float_Box (BD_Shape_mpq_class y)
- Float_Box (Octagonal_Shape_int8_t y)
- Float_Box (Octagonal_Shape_int16_t y)
- Float_Box (Octagonal_Shape_int32_t y)
- Float_Box (Octagonal_Shape_int64_t y)
- Float_Box (Octagonal_Shape_mpz_class y)
- Float_Box (Octagonal_Shape_mpq_class y)
- Float_Box (C_Polyhedron y)
- Float_Box (NNC_Polyhedron y)
- Float_Box (Grid y)
- Float_Box (Float_Box y)
- Float_Box (BD_Shape_float y)
- Float_Box (Octagonal_Shape_float y)
- Float_Box (Double_Box y)
- Float_Box (BD_Shape_double y)
- Float_Box (Octagonal_Shape_double y)
- Float_Box (Long_Double_Box y)
- Float_Box (BD_Shape_long_double y)
- Float_Box (Octagonal_Shape_long_double y)
- Float_Box (Int8_Box y, Complexity_Class complexity)
- Float_Box (Int16_Box y, Complexity_Class complexity)
- Float_Box (Int32_Box y, Complexity_Class complexity)
- Float_Box (Int64_Box y, Complexity_Class complexity)
- Float_Box (Uint8_Box y, Complexity_Class complexity)
- Float_Box (Uint16_Box y, Complexity_Class complexity)
- Float_Box (Uint32_Box y, Complexity_Class complexity)
- Float_Box (Uint64_Box y, Complexity_Class complexity)
- Float_Box (Z_Box y, Complexity_Class complexity)
- Float_Box (Rational_Box y, Complexity_Class complexity)
- Float_Box (BD_Shape_int8_t y, Complexity_Class complexity)
- Float_Box (BD_Shape_int16_t y, Complexity_Class complexity)
- Float_Box (BD_Shape_int32_t y, Complexity_Class complexity)
- Float_Box (BD_Shape_int64_t y, Complexity_Class complexity)
- Float_Box (BD_Shape_mpz_class y, Complexity_Class complexity)
- Float_Box (BD_Shape_mpq_class y, Complexity_Class complexity)
- Float_Box (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Float_Box (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Float_Box (Octagonal_Shape_int32_t y, Complexity_Class complexity)

- Float_Box (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Float_Box (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Float_Box (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Float_Box (C_Polyhedron y, Complexity_Class complexity)
- Float_Box (NNC_Polyhedron y, Complexity_Class complexity)
- Float_Box (Grid y, Complexity_Class complexity)
- Float_Box (Float_Box y, Complexity_Class complexity)
- Float_Box (BD_Shape_float y, Complexity_Class complexity)
- Float_Box (Octagonal_Shape_float y, Complexity_Class complexity)
- Float_Box (Double_Box y, Complexity_Class complexity)
- Float_Box (BD_Shape_double y, Complexity_Class complexity)
- Float_Box (Octagonal_Shape_double y, Complexity_Class complexity)
- Float_Box (Long_Double_Box y, Complexity_Class complexity)
- Float_Box (BD_Shape_long_double y, Complexity_Class complexity)
- Float_Box (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Float_Box (Constraint_System cs)
- Float_Box (Congruence_System cs)
- Float_Box (Generator_System cs)
- native void swap (Float_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Float_Box y)
- native boolean strictly_contains (Float_Box y)
- native boolean is_disjoint_from (Float_Box y)

- native boolean equals (Float_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Float_Box p)
- native void upper_bound_assign (Float_Box p)
- native void difference_assign (Float_Box p)
- native void concatenate_assign (Float_Box p)
- native void time_elapse_assign (Float_Box p)
- native boolean upper_bound_assign_if_exact (Float_Box y)
- native boolean simplify_using_context_assign (Float_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void CC76_widening_assign (Float_Box y, By_Reference< Integer > tp)
- native void widening_assign (Float_Box y, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Float_Box y, Constraint_System cs, By_Reference< Integer > tp)

- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native String toString ()

Static Public Member Functions

- static native Pair< Float_Box, Pointset_Powerset_NNC_Polyhedron > linear_partition (Float_Box p, Float_Box q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Float_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)

- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.26.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Float_Box.

Definition at line 33 of file Float_Box.java.

11.26.2 Constructor & Destructor Documentation

11.26.2.1 parma_polyhedra_library::Float_Box::Float_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Float_Box.java.

References build_cpp_object().

11.26.2.2 parma_polyhedra_library::Float_Box::Float_Box () [inline, private]

Definition at line 45 of file Float_Box.java.

11.26.2.3 parma_polyhedra_library::Float_Box::Float_Box (Int8_Box *y*) [inline]

Definition at line 52 of file Float_Box.java.

References build_cpp_object().

11.26.2.4 parma_polyhedra_library::Float_Box::Float_Box (Int16_Box *y*) [inline]

Definition at line 56 of file Float_Box.java.

References build_cpp_object().

11.26.2.5 parma_polyhedra_library::Float_Box::Float_Box (Int32_Box *y*) [inline]

Definition at line 60 of file Float_Box.java.

References build_cpp_object().

11.26.2.6 parma_polyhedra_library::Float_Box::Float_Box (Int64_Box *y*) [inline]

Definition at line 64 of file Float_Box.java.

References build_cpp_object().

11.26.2.7 parma_polyhedra_library::Float_Box::Float_Box (Uint8_Box *y*) [inline]

Definition at line 68 of file Float_Box.java.

References build_cpp_object().

11.26.2.8 parma_polyhedra_library::Float_Box::Float_Box (Uint16_Box *y*) [inline]

Definition at line 72 of file Float_Box.java.

References build_cpp_object().

11.26.2.9 parma_polyhedra_library::Float_Box::Float_Box (Uint32_Box *y*) [inline]

Definition at line 76 of file Float_Box.java.

References build_cpp_object().

11.26.2.10 parma_polyhedra_library::Float_Box::Float_Box (Uint64_Box *y*) [inline]

Definition at line 80 of file Float_Box.java.

References build_cpp_object().

11.26.2.11 parma_polyhedra_library::Float_Box::Float_Box (Z_Box *y*) [inline]

Definition at line 84 of file Float_Box.java.

References build_cpp_object().

11.26.2.12 parma_polyhedra_library::Float_Box::Float_Box (Rational_Box *y*) [inline]

Definition at line 88 of file Float_Box.java.

References build_cpp_object().

11.26.2.13 parma_polyhedra_library::Float_Box::Float_Box (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Float_Box.java.

References build_cpp_object().

11.26.2.14 parma_polyhedra_library::Float_Box::Float_Box (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Float_Box.java.

References build_cpp_object().

11.26.2.15 parma_polyhedra_library::Float_Box::Float_Box (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Float_Box.java.

References build_cpp_object().

11.26.2.16 parma_polyhedra_library::Float_Box::Float_Box (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Float_Box.java.

References build_cpp_object().

11.26.2.17 parma_polyhedra_library::Float_Box::Float_Box (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Float_Box.java.

References build_cpp_object().

11.26.2.18 parma_polyhedra_library::Float_Box::Float_Box (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Float_Box.java.

References build_cpp_object().

11.26.2.19 parma_polyhedra_library::Float_Box::Float_Box (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Float_Box.java.

References build_cpp_object().

11.26.2.20 parma_polyhedra_library::Float_Box::Float_Box (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Float_Box.java.

References build_cpp_object().

11.26.2.21 parma_polyhedra_library::Float_Box::Float_Box (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Float_Box.java.

References build_cpp_object().

11.26.2.22 parma_polyhedra_library::Float_Box::Float_Box (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Float_Box.java.

References build_cpp_object().

11.26.2.23 parma_polyhedra_library::Float_Box::Float_Box (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Float_Box.java.

References build_cpp_object().

11.26.2.24 parma_polyhedra_library::Float_Box::Float_Box (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Float_Box.java.

References build_cpp_object().

11.26.2.25 parma_polyhedra_library::Float_Box::Float_Box (C_Polyhedron *y*) [inline]

Definition at line 140 of file Float_Box.java.

References build_cpp_object().

11.26.2.26 parma_polyhedra_library::Float_Box::Float_Box (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Float_Box.java.

References build_cpp_object().

11.26.2.27 parma_polyhedra_library::Float_Box::Float_Box (Grid *y*) [inline]

Definition at line 148 of file Float_Box.java.

References build_cpp_object().

11.26.2.28 parma_polyhedra_library::Float_Box::Float_Box (Float_Box *y*) [inline]

Definition at line 152 of file Float_Box.java.

References build_cpp_object().

11.26.2.29 parma_polyhedra_library::Float_Box::Float_Box (BD_Shape_float *y*) [inline]

Definition at line 156 of file Float_Box.java.

References build_cpp_object().

11.26.2.30 parma_polyhedra_library::Float_Box::Float_Box (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Float_Box.java.

References build_cpp_object().

11.26.2.31 parma_polyhedra_library::Float_Box::Float_Box (Double_Box *y*) [inline]

Definition at line 164 of file Float_Box.java.

References build_cpp_object().

11.26.2.32 parma_polyhedra_library::Float_Box::Float_Box (BD_Shape_double *y*) [inline]

Definition at line 168 of file Float_Box.java.

References build_cpp_object().

11.26.2.33 parma_polyhedra_library::Float_Box::Float_Box (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Float_Box.java.

References build_cpp_object().

11.26.2.34 parma_polyhedra_library::Float_Box::Float_Box (Long_Double_Box *y*) [inline]

Definition at line 176 of file Float_Box.java.

References build_cpp_object().

11.26.2.35 parma_polyhedra_library::Float_Box::Float_Box (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Float_Box.java.

References build_cpp_object().

11.26.2.36 parma_polyhedra_library::Float_Box::Float_Box (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Float_Box.java.

References build_cpp_object().

11.26.2.37 parma_polyhedra_library::Float_Box::Float_Box (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Float_Box.java.

References build_cpp_object().

11.26.2.38 parma_polyhedra_library::Float_Box::Float_Box (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Float_Box.java.

References build_cpp_object().

11.26.2.39 parma_polyhedra_library::Float_Box::Float_Box (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Float_Box.java.

References build_cpp_object().

11.26.2.40 parma_polyhedra_library::Float_Box::Float_Box (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Float_Box.java.

References build_cpp_object().

11.26.2.41 parma_polyhedra_library::Float_Box::Float_Box (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Float_Box.java.

References build_cpp_object().

11.26.2.42 parma_polyhedra_library::Float_Box::Float_Box (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Float_Box.java.

References build_cpp_object().

11.26.2.43 parma_polyhedra_library::Float_Box::Float_Box (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Float_Box.java.

References build_cpp_object().

11.26.2.44 parma_polyhedra_library::Float_Box::Float_Box (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Float_Box.java.

References build_cpp_object().

11.26.2.45 parma_polyhedra_library::Float_Box::Float_Box (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Float_Box.java.

References build_cpp_object().

11.26.2.46 parma_polyhedra_library::Float_Box::Float_Box (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Float_Box.java.

References build_cpp_object().

11.26.2.47 parma_polyhedra_library::Float_Box::Float_Box (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Float_Box.java.

References build_cpp_object().

11.26.2.48 parma_polyhedra_library::Float_Box::Float_Box (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Float_Box.java.

References build_cpp_object().

11.26.2.49 parma_polyhedra_library::Float_Box::Float_Box (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Float_Box.java.

References build_cpp_object().

11.26.2.50 parma_polyhedra_library::Float_Box::Float_Box (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Float_Box.java.

References build_cpp_object().

11.26.2.51 parma_polyhedra_library::Float_Box::Float_Box (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Float_Box.java.

References build_cpp_object().

11.26.2.52 parma_polyhedra_library::Float_Box::Float_Box (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Float_Box.java.

References build_cpp_object().

11.26.2.53 parma_polyhedra_library::Float_Box::Float_Box (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Float_Box.java.

References build_cpp_object().

11.26.2.54 parma_polyhedra_library::Float_Box::Float_Box (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Float_Box.java.

References build_cpp_object().

11.26.2.55 parma_polyhedra_library::Float_Box::Float_Box (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Float_Box.java.

References build_cpp_object().

11.26.2.56 parma_polyhedra_library::Float_Box::Float_Box (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Float_Box.java.

References build_cpp_object().

11.26.2.57 parma_polyhedra_library::Float_Box::Float_Box (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Float_Box.java.

References build_cpp_object().

11.26.2.58 parma_polyhedra_library::Float_Box::Float_Box (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Float_Box.java.

References build_cpp_object().

11.26.2.59 parma_polyhedra_library::Float_Box::Float_Box (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Float_Box.java.

References build_cpp_object().

11.26.2.60 parma_polyhedra_library::Float_Box::Float_Box (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Float_Box.java.

References build_cpp_object().

11.26.2.61 parma_polyhedra_library::Float_Box::Float_Box (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Float_Box.java.

References build_cpp_object().

11.26.2.62 parma_polyhedra_library::Float_Box::Float_Box (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Float_Box.java.

References build_cpp_object().

11.26.2.63 parma_polyhedra_library::Float_Box::Float_Box (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Float_Box.java.

References build_cpp_object().

11.26.2.64 parma_polyhedra_library::Float_Box::Float_Box (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Float_Box.java.

References build_cpp_object().

11.26.2.65 parma_polyhedra_library::Float_Box::Float_Box (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Float_Box.java.

References build_cpp_object().

11.26.2.66 parma_polyhedra_library::Float_Box::Float_Box (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Float_Box.java.

References build_cpp_object().

11.26.2.67 parma_polyhedra_library::Float_Box::Float_Box (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Float_Box.java.

References build_cpp_object().

11.26.2.68 parma_polyhedra_library::Float_Box::Float_Box (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Float_Box.java.

References build_cpp_object().

11.26.2.69 parma_polyhedra_library::Float_Box::Float_Box (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Float_Box.java.

References build_cpp_object().

11.26.2.70 parma_polyhedra_library::Float_Box::Float_Box (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Float_Box.java.

References build_cpp_object().

11.26.2.71 parma_polyhedra_library::Float_Box::Float_Box (Constraint_System *cs*) [inline]

Definition at line 334 of file Float_Box.java.

References build_cpp_object().

11.26.2.72 parma_polyhedra_library::Float_Box::Float_Box (Congruence_System *cs*) [inline]

Definition at line 338 of file Float_Box.java.

References build_cpp_object().

11.26.2.73 parma_polyhedra_library::Float_Box::Float_Box (Generator_System *cs*) [inline]

Definition at line 342 of file Float_Box.java.

References build_cpp_object().

11.26.3 Member Function Documentation

11.26.3.1 native void parma_polyhedra_library::Float_Box::add_congruence (Congruence *c*)

11.26.3.2 native void parma_polyhedra_library::Float_Box::add_congruences (Congruence_System *c*)

11.26.3.3 native void parma_polyhedra_library::Float_Box::add_constraint (Constraint *c*)

11.26.3.4 native void parma_polyhedra_library::Float_Box::add_constraints (Constraint_System *c*)

11.26.3.5 native void parma_polyhedra_library::Float_Box::add_space_dimensions_and_embed (long *m*)

11.26.3.6 native void parma_polyhedra_library::Float_Box::add_space_dimensions_and_project (long *m*)

11.26.3.7 native long parma_polyhedra_library::Float_Box::affine_dimension ()

11.26.3.8 native void parma_polyhedra_library::Float_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.26.3.9 native void parma_polyhedra_library::Float_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.26.3.10 native String parma_polyhedra_library::Float_Box::ascii_dump ()

11.26.3.11 native void parma_polyhedra_library::Float_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.26.3.12 native void parma_polyhedra_library::Float_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.26.3.13 native boolean parma_polyhedra_library::Float_Box::bounds_from_above (Linear_Expression *expr*)

11.26.3.14 native boolean parma_polyhedra_library::Float_Box::bounds_from_below (Linear_Expression *expr*)

11.26.3.15 native void parma_polyhedra_library::Float_Box::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.26.3.16 native void parma_polyhedra_library::Float_Box::build_cpp_object (Octagonal_Shape_long_double *y*) [private]

11.26.3.17 native void parma_polyhedra_library::Float_Box::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.26.3.18 native void parma_polyhedra_library::Float_Box::build_cpp_object (BD_Shape_long_double *y*) [private]

11.26.3.19 native void parma_polyhedra_library::Float_Box::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.26.3.20 native void parma_polyhedra_library::Float_Box::build_cpp_object (Long_Double_Box *y*) [private]

11.26.3.21 native void parma_polyhedra_library::Float_Box::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.26.3.22 native void parma_polyhedra_library::Float_Box::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.26.3.23 native void parma_polyhedra_library::Float_Box::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.26.3.24 native void parma_polyhedra_library::Float_Box::build_cpp_object (BD_Shape_double *y*) [private]

11.26.3.25 native void parma_polyhedra_library::Float_Box::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.26.3.26 native void parma_polyhedra_library::Float_Box::build_cpp_object (Double_Box *y*) [private]

11.26.3.27 native void parma_polyhedra_library::Float_Box::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.26.3.28 native void parma_polyhedra_library::Float_Box::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.26.3.29 native void parma_polyhedra_library::Float_Box::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.26.3.30 native void parma_polyhedra_library::Float_Box::build_cpp_object (BD_Shape_float *y*) [private]

11.26.3.31 native void parma_polyhedra_library::Float_Box::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.26.3.32 native void parma_polyhedra_library::Float_Box::build_cpp_object (Float_Box *y*) [private]

11.26.3.33 native void parma_polyhedra_library::Float_Box::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.26.3.34 native void parma_polyhedra_library::Float_Box::build_cpp_object (Grid *y*) [private]

11.26.3.35 native void parma_polyhedra_library::Float_Box::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.26.3.36 native void parma_polyhedra_library::Float_Box::build_cpp_object (NNC_Polyhedron *y*) [private]

11.26.3.37 native void parma_polyhedra_library::Float_Box::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.26.3.38 native void parma_polyhedra_library::Float_Box::build_cpp_object (C_Polyhedron *y*) [private]

11.26.3.39 native void parma_polyhedra_library::Float_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.26.3.40 native void parma_polyhedra_library::Float_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.26.3.41 native void parma_polyhedra_library::Float_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.26.3.42 native void parma_polyhedra_library::Float_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.26.3.43 native void parma_polyhedra_library::Float_Box::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.26.3.44 native void parma_polyhedra_library::Float_Box::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.26.3.45 native void parma_polyhedra_library::Float_Box::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.26.3.46 native void parma_polyhedra_library::Float_Box::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.26.3.47 native void parma_polyhedra_library::Float_Box::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.26.3.48 native void parma_polyhedra_library::Float_Box::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.26.3.49 native void parma_polyhedra_library::Float_Box::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.26.3.50 native void parma_polyhedra_library::Float_Box::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.26.3.51 native void parma_polyhedra_library::Float_Box::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.26.3.52 native void parma_polyhedra_library::Float_Box::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.26.3.53 native void parma_polyhedra_library::Float_Box::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.26.3.54 native void parma_polyhedra_library::Float_Box::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.26.3.55 native void parma_polyhedra_library::Float_Box::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.26.3.56 native void parma_polyhedra_library::Float_Box::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.26.3.57 native void parma_polyhedra_library::Float_Box::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.26.3.58 native void parma_polyhedra_library::Float_Box::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.26.3.59 native void parma_polyhedra_library::Float_Box::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.26.3.60 native void parma_polyhedra_library::Float_Box::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.26.3.61 native void parma_polyhedra_library::Float_Box::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.26.3.62 native void parma_polyhedra_library::Float_Box::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.26.3.63 native void parma_polyhedra_library::Float_Box::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.26.3.64 native void parma_polyhedra_library::Float_Box::build_cpp_object (Rational_Box *y*) [private]

11.26.3.65 native void parma_polyhedra_library::Float_Box::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.26.3.66 native void parma_polyhedra_library::Float_Box::build_cpp_object (Z_Box *y*) [private]

11.26.3.67 native void parma_polyhedra_library::Float_Box::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.26.3.68 native void parma_polyhedra_library::Float_Box::build_cpp_object (Uint64_Box *y*) [private]

11.26.3.69 native void parma_polyhedra_library::Float_Box::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.26.3.70 native void parma_polyhedra_library::Float_Box::build_cpp_object (Uint32_Box *y*) [private]

11.26.3.71 native void parma_polyhedra_library::Float_Box::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.26.3.72 native void parma_polyhedra_library::Float_Box::build_cpp_object (Uint16_Box *y*) [private]

11.26.3.73 native void parma_polyhedra_library::Float_Box::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.26.3.74 native void parma_polyhedra_library::Float_Box::build_cpp_object (Uint8_Box *y*) [private]

11.26.3.75 native void parma_polyhedra_library::Float_Box::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.26.3.76 native void parma_polyhedra_library::Float_Box::build_cpp_object (Int64_Box *y*) [private]

11.26.3.77 native void parma_polyhedra_library::Float_Box::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.26.3.78 native void parma_polyhedra_library::Float_Box::build_cpp_object (Int32_Box *y*) [private]

11.26.3.79 native void parma_polyhedra_library::Float_Box::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.26.3.80 native void parma_polyhedra_library::Float_Box::build_cpp_object (Int16_Box *y*) [private]

11.26.3.81 native void parma_polyhedra_library::Float_Box::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.26.3.82 native void parma_polyhedra_library::Float_Box::build_cpp_object (Int8_Box *y*) [private]

11.26.3.83 native void parma_polyhedra_library::Float_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.26.3.84 native void parma_polyhedra_library::Float_Box::build_cpp_object (Generator_System *cs*) [private]

11.26.3.85 native void parma_polyhedra_library::Float_Box::build_cpp_object (Congruence_System *cs*) [private]

11.26.3.86 native void parma_polyhedra_library::Float_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Float_Box().

11.26.3.87 native void parma_polyhedra_library::Float_Box::CC76_widening_assign (Float_Box *y*, By_Reference< Integer > *tp*)

11.26.3.88 native void parma_polyhedra_library::Float_Box::concatenate_assign (Float_Box *p*)

11.26.3.89 native Congruence_System parma_polyhedra_library::Float_Box::congruences ()

11.26.3.90 native boolean parma_polyhedra_library::Float_Box::constrains (Variable *var*)

11.26.3.91 native Constraint_System parma_polyhedra_library::Float_Box::constraints ()

11.26.3.92 native boolean parma_polyhedra_library::Float_Box::contains (Float_Box *y*)

11.26.3.93 native boolean parma_polyhedra_library::Float_Box::contains_integer_point ()

11.26.3.94 native void parma_polyhedra_library::Float_Box::difference_assign (Float_Box *p*)

11.26.3.95 native void parma_polyhedra_library::Float_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.26.3.96 native void parma_polyhedra_library::Float_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.26.3.97 boolean parma_polyhedra_library::Float_Box::equals (Object *y*) `[inline]`

Definition at line 465 of file Float_Box.java.

References equals().

11.26.3.98 native boolean parma_polyhedra_library::Float_Box::equals (Float_Box *p*)

Referenced by equals().

11.26.3.99 native void parma_polyhedra_library::Float_Box::expand_space_dimension (Variable *var*, long *m*)

11.26.3.100 native long parma_polyhedra_library::Float_Box::external_memory_in_bytes ()

11.26.3.101 native void parma_polyhedra_library::Float_Box::finalize () `[protected]`

11.26.3.102 native void parma_polyhedra_library::Float_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.26.3.103 native void parma_polyhedra_library::Float_Box::free ()

11.26.3.104 native boolean parma_polyhedra_library::Float_Box::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.26.3.105 native void parma_polyhedra_library::Float_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.26.3.106 native void parma_polyhedra_library::Float_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.26.3.107 native void parma_polyhedra_library::Float_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.26.3.108 native void parma_polyhedra_library::Float_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.26.3.109 native void parma_polyhedra_library::Float_Box::intersection_assign (Float_Box *p*)

11.26.3.110 native boolean parma_polyhedra_library::Float_Box::is_bounded ()

11.26.3.111 native boolean parma_polyhedra_library::Float_Box::is_discrete ()

11.26.3.112 native boolean parma_polyhedra_library::Float_Box::is_disjoint_from (Float_Box *y*)

11.26.3.113 native boolean parma_polyhedra_library::Float_Box::is_empty ()

11.26.3.114 native boolean parma_polyhedra_library::Float_Box::is_topologically_closed ()

11.26.3.115 native boolean parma_polyhedra_library::Float_Box::is_universe ()

11.26.3.116 native void parma_polyhedra_library::Float_Box::limited_CC76_extrapolation_assign (Float_Box *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.26.3.117 static native Pair<Float_Box, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Float_Box::linear_partition (Float_Box *p*, Float_Box *q*) `[static]`

11.26.3.118 native void parma_polyhedra_library::Float_Box::map_space_dimensions (Partial_Function *pfunc*)

11.26.3.119 native boolean parma_polyhedra_library::Float_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.26.3.120 native boolean parma_polyhedra_library::Float_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.26.3.121 native boolean parma_polyhedra_library::Float_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.26.3.122 native boolean parma_polyhedra_library::Float_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.26.3.123 native Congruence_System parma_polyhedra_library::Float_Box::minimized_congruences ()

11.26.3.124 native Constraint_System parma_polyhedra_library::Float_Box::minimized_constraints ()

11.26.3.125 native boolean parma_polyhedra_library::Float_Box::OK ()

11.26.3.126 native void parma_polyhedra_library::Float_Box::refine_with_congruence (Congruence *c*)

11.26.3.127 native void parma_polyhedra_library::Float_Box::refine_with_congruences (Congruence_System *c*)

11.26.3.128 native void parma_polyhedra_library::Float_Box::refine_with_constraint (Constraint *c*)

11.26.3.129 native void parma_polyhedra_library::Float_Box::refine_with_constraints (Constraint_System *c*)

11.26.3.130 native Poly_Con_Relation parma_polyhedra_library::Float_Box::relation_with (Congruence *c*)

11.26.3.131 native Poly_Gen_Relation parma_polyhedra_library::Float_Box::relation_with (Generator *c*)

11.26.3.132 native Poly_Con_Relation parma_polyhedra_library::Float_Box::relation_with (Constraint *c*)

11.26.3.133 native void parma_polyhedra_library::Float_Box::remove_higher_space_dimensions (long *new_dimension*)

11.26.3.134 native void parma_polyhedra_library::Float_Box::remove_space_dimensions (Variables_Set *vars*)

11.26.3.135 native boolean parma_polyhedra_library::Float_Box::simplify_using_context_assign (Float_Box *p*)

11.26.3.136 native long parma_polyhedra_library::Float_Box::space_dimension ()

11.26.3.137 native boolean parma_polyhedra_library::Float_Box::strictly_contains (Float_Box *y*)

11.26.3.138 native void parma_polyhedra_library::Float_Box::swap (Float_Box *y*)

11.26.3.139 native void parma_polyhedra_library::Float_Box::time_elapse_assign (Float_Box *p*)

11.26.3.140 native void parma_polyhedra_library::Float_Box::topological_closure_assign ()

11.26.3.141 native String parma_polyhedra_library::Float_Box::toString ()

11.26.3.142 native long parma_polyhedra_library::Float_Box::total_memory_in_bytes ()

11.26.3.143 native void parma_polyhedra_library::Float_Box::unconstrain_space_dimension (Variable *var*)

11.26.3.144 native void parma_polyhedra_library::Float_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.26.3.145 native void parma_polyhedra_library::Float_Box::upper_bound_assign (Float_Box *p*)

11.26.3.146 native boolean parma_polyhedra_library::Float_Box::upper_bound_assign_if_exact (Float_Box *y*)

11.26.3.147 native void parma_polyhedra_library::Float_Box::widening_assign (Float_Box *y*, By_Reference< Integer > *tp*)

11.26.3.148 native void parma_polyhedra_library::Float_Box::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

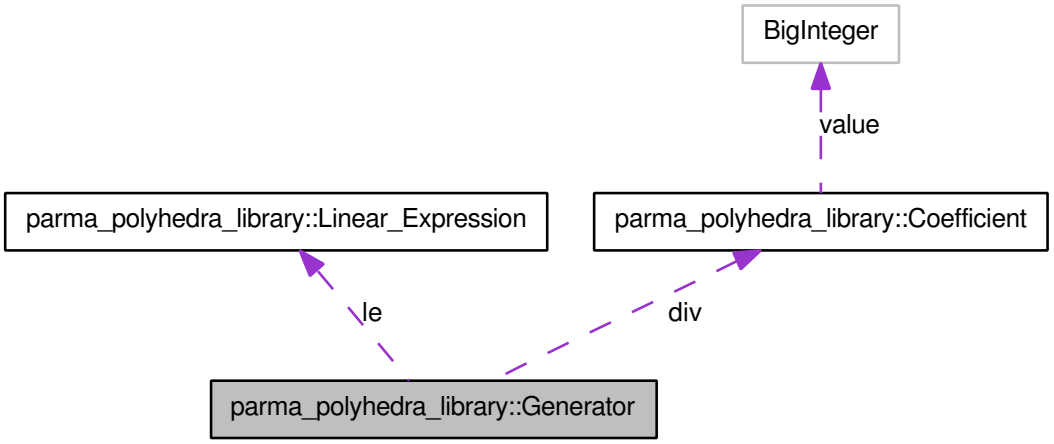
The documentation for this class was generated from the following file:

- Float_Box.java

11.27 parma_polyhedra_library::Generator Class Reference

A line, ray, point or closure point.

Collaboration diagram for parma_polyhedra_library::Generator:



Public Member Functions

- Generator_Type type ()

  Returns the generator type.

- Linear_Expression linear_expression ()

  Returns the linear expression in `this`.

- Coefficient divisor ()

  If `this` *is either a point or a closure point, returns its divisor.*

- native String ascii_dump ()

  Returns an ascii formatted internal representation of `this`.

- native String toString ()

  Returns a string representation of `this`.

Static Public Member Functions

- static Generator closure_point (Linear_Expression e, Coefficient d)

  Returns the closure point at `e` / `d`.

- static Generator line (Linear_Expression e)

  Returns the line of direction `e`.

- static Generator point (Linear_Expression e, Coefficient d)

  Returns the point at `e` / `d`.

- static Generator ray (Linear_Expression e)

  Returns the ray of direction `e`.

Static Package Functions

- [static initializer]

Private Member Functions

- Generator (Linear_Expression e, Generator_Type g_type)

  Builds a generator of type `g_type`*, stealing the coefficients from* `e`.

Static Private Member Functions

- static native void initIDs ()

Private Attributes

- Generator_Type gt

  The generator type.

- Linear_Expression le

  The linear expression.

- Coefficient div

  The divisor (valid if the generator is a point or a closure point).

11.27.1 Detailed Description

A line, ray, point or closure point. An object of the class Generator is one of the following:

- a line;
- a ray;
- a point;

- a closure point.

Definition at line 40 of file Generator.java.

11.27.2 Constructor & Destructor Documentation

11.27.2.1 parma_polyhedra_library::Generator::Generator (Linear_Expression *e*, Generator_Type *g_type*) [inline, private]

Builds a generator of type `g_type`, stealing the coefficients from `e`.

Definition at line 54 of file Generator.java.

References parma_polyhedra_library::Linear_Expression::clone(), gt, and le.

Referenced by closure_point(), line(), point(), and ray().

11.27.3 Member Function Documentation

11.27.3.1 parma_polyhedra_library::Generator::[static initializer] () [inline, static, package]

11.27.3.2 native String parma_polyhedra_library::Generator::ascii_dump ()

Returns an ascii formatted internal representation of `this`.

11.27.3.3 static Generator parma_polyhedra_library::Generator::closure_point (Linear_Expression *e*, Coefficient *d*) [inline, static]

Returns the closure point at `e` / `d`.

Exceptions

RuntimeErrorException Thrown if `d` is zero.

Definition at line 64 of file Generator.java.

References div, Generator(), and parma_polyhedra_library::Coefficient::getBigInteger().

11.27.3.4 Coefficient parma_polyhedra_library::Generator::divisor () [inline]

If `this` is either a point or a closure point, returns its divisor.

Exceptions

RuntimeErrorException Thrown if `this` is neither a point nor a closure point.

Definition at line 129 of file Generator.java.

References div, and gt.

11.27.3.5 static native void parma_polyhedra_library::Generator::initIDs () [static, private]

11.27.3.6 static Generator parma_polyhedra_library::Generator::line (Linear_Expression *e*) [inline, static]

Returns the line of direction `e`.

Exceptions

RuntimeErrorException Thrown if the homogeneous part of `e` represents the origin of the vector space.

Definition at line 82 of file Generator.java.

References Generator().

11.27.3.7 Linear_Expression parma_polyhedra_library::Generator::linear_expression () [inline]

Returns the linear expression in `this`.

Definition at line 120 of file Generator.java.

References le.

11.27.3.8 static Generator parma_polyhedra_library::Generator::point (Linear_Expression *e*, Coefficient *d*) [inline, static]

Returns the point at `e` / `d`.

Exceptions

RuntimeErrorException Thrown if `d` is zero.

Definition at line 91 of file Generator.java.

References div, Generator(), and parma_polyhedra_library::Coefficient::getBigInteger().

11.27.3.9 static Generator parma_polyhedra_library::Generator::ray (Linear_Expression *e*) [inline, static]

Returns the ray of direction `e`.

Exceptions

RuntimeErrorException Thrown if the homogeneous part of `e` represents the origin of the vector space.

Definition at line 110 of file Generator.java.

References Generator().

11.27.3.10 native String parma_polyhedra_library::Generator::toString ()

Returns a string representation of `this`.

11.27.3.11 Generator_Type parma_polyhedra_library::Generator::type () [inline]

Returns the generator type.

Definition at line 115 of file Generator.java.

References gt.

11.27.4 Member Data Documentation

11.27.4.1 Coefficient parma_polyhedra_library::Generator::div [private]

The divisor (valid if the generator is a point or a closure point).

Definition at line 48 of file Generator.java.

Referenced by closure_point(), divisor(), and point().

11.27.4.2 Generator_Type parma_polyhedra_library::Generator::gt [private]

The generator type.

Definition at line 42 of file Generator.java.

Referenced by divisor(), Generator(), and type().

11.27.4.3 Linear_Expression parma_polyhedra_library::Generator::le [private]

The linear expression.

Definition at line 45 of file Generator.java.

Referenced by Generator(), and linear_expression().

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

- Generator.java

11.28 parma_polyhedra_library::Generator_System Class Reference

A system of generators.

Public Member Functions

- Generator_System ()

  Default constructor: builds an empty system of generators.

- native String ascii_dump ()

  Returns an ascii formatted internal representation of `this`.

- native String toString ()

  Returns a string representation of `this`.

Static Package Functions

- [static initializer]

Static Private Member Functions

- static native void initIDs ()

11.28.1 Detailed Description

A system of generators. An object of the class Generator_System is a system of generators, i.e., a multiset of objects of the class Generator (lines, rays, points and closure points).

Definition at line 35 of file Generator_System.java.

11.28.2 Constructor & Destructor Documentation

11.28.2.1 parma_polyhedra_library::Generator_System::Generator_System () [inline]

Default constructor: builds an empty system of generators.

Definition at line 38 of file Generator_System.java.

11.28.3 Member Function Documentation

11.28.3.1 parma_polyhedra_library::Generator_System::[static initializer] () [inline, static, package]

11.28.3.2 native String parma_polyhedra_library::Generator_System::ascii_dump ()

Returns an ascii formatted internal representation of `this`.

11.28.3.3 static native void parma_polyhedra_library::Generator_System::initIDs () [static, private]

11.28.3.4 native String parma_polyhedra_library::Generator_System::toString ()

Returns a string representation of `this`.

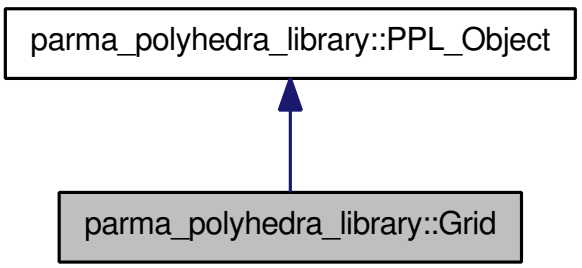
The documentation for this class was generated from the following file:

- Generator_System.java

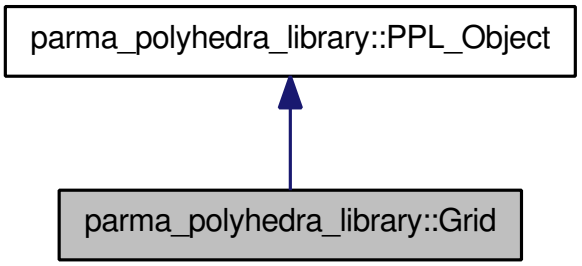
11.29 parma_polyhedra_library::Grid Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Grid.

Inheritance diagram for parma_polyhedra_library::Grid:



Collaboration diagram for parma_polyhedra_library::Grid:



Public Member Functions

- Grid (long num_dimensions, Degenerate_Element kind)
- Grid (Int8_Box y)
- Grid (Int16_Box y)
- Grid (Int32_Box y)
- Grid (Int64_Box y)
- Grid (Uint8_Box y)
- Grid (Uint16_Box y)
- Grid (Uint32_Box y)
- Grid (Uint64_Box y)
- Grid (Z_Box y)
- Grid (Rational_Box y)
- Grid (BD_Shape_int8_t y)
- Grid (BD_Shape_int16_t y)
- Grid (BD_Shape_int32_t y)
- Grid (BD_Shape_int64_t y)
- Grid (BD_Shape_mpz_class y)
- Grid (BD_Shape_mpq_class y)
- Grid (Octagonal_Shape_int8_t y)
- Grid (Octagonal_Shape_int16_t y)
- Grid (Octagonal_Shape_int32_t y)
- Grid (Octagonal_Shape_int64_t y)
- Grid (Octagonal_Shape_mpz_class y)
- Grid (Octagonal_Shape_mpq_class y)
- Grid (C_Polyhedron y)
- Grid (NNC_Polyhedron y)
- Grid (Grid y)
- Grid (Float_Box y)
- Grid (BD_Shape_float y)
- Grid (Octagonal_Shape_float y)
- Grid (Double_Box y)
- Grid (BD_Shape_double y)
- Grid (Octagonal_Shape_double y)
- Grid (Long_Double_Box y)
- Grid (BD_Shape_long_double y)
- Grid (Octagonal_Shape_long_double y)
- Grid (Int8_Box y, Complexity_Class complexity)

- Grid (Int16_Box y, Complexity_Class complexity)
- Grid (Int32_Box y, Complexity_Class complexity)
- Grid (Int64_Box y, Complexity_Class complexity)
- Grid (Uint8_Box y, Complexity_Class complexity)
- Grid (Uint16_Box y, Complexity_Class complexity)
- Grid (Uint32_Box y, Complexity_Class complexity)
- Grid (Uint64_Box y, Complexity_Class complexity)
- Grid (Z_Box y, Complexity_Class complexity)
- Grid (Rational_Box y, Complexity_Class complexity)
- Grid (BD_Shape_int8_t y, Complexity_Class complexity)
- Grid (BD_Shape_int16_t y, Complexity_Class complexity)
- Grid (BD_Shape_int32_t y, Complexity_Class complexity)
- Grid (BD_Shape_int64_t y, Complexity_Class complexity)
- Grid (BD_Shape_mpz_class y, Complexity_Class complexity)
- Grid (BD_Shape_mpq_class y, Complexity_Class complexity)
- Grid (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Grid (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Grid (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Grid (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Grid (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Grid (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Grid (C_Polyhedron y, Complexity_Class complexity)
- Grid (NNC_Polyhedron y, Complexity_Class complexity)
- Grid (Grid y, Complexity_Class complexity)
- Grid (Float_Box y, Complexity_Class complexity)
- Grid (BD_Shape_float y, Complexity_Class complexity)
- Grid (Octagonal_Shape_float y, Complexity_Class complexity)
- Grid (Double_Box y, Complexity_Class complexity)
- Grid (BD_Shape_double y, Complexity_Class complexity)
- Grid (Octagonal_Shape_double y, Complexity_Class complexity)
- Grid (Long_Double_Box y, Complexity_Class complexity)
- Grid (BD_Shape_long_double y, Complexity_Class complexity)
- Grid (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Grid (Constraint_System cs)
- Grid (Congruence_System cs)
- Grid (Grid_Generator_System cs)
- native void swap (Grid y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Poly_Gen_Relation relation_with (Grid_Generator c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Grid_Generator_System grid_generators ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native Grid_Generator_System minimized_grid_generators ()
- native boolean is_empty ()

- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Grid y)
- native boolean strictly_contains (Grid y)
- native boolean is_disjoint_from (Grid y)
- native boolean equals (Grid p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_grid_generator (Grid_Generator c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void add_grid_generators (Grid_Generator_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Grid p)
- native void upper_bound_assign (Grid p)
- native void difference_assign (Grid p)
- native void concatenate_assign (Grid p)
- native void time_elapse_assign (Grid p)
- native boolean upper_bound_assign_if_exact (Grid y)
- native boolean simplify_using_context_assign (Grid p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)

- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_image_with_congruence (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator, Coefficient modulus)
- native void generalized_affine_preimage_with_congruence (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator, Coefficient modulus)
- native void generalized_affine_image_lhs_rhs_with_congruence (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs, Coefficient modulus)
- native void generalized_affine_preimage_lhs_rhs_with_congruence (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs, Coefficient modulus)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void congruence_widening_assign (Grid y, By_Reference< Integer > tp)
- native void generator_widening_assign (Grid y, By_Reference< Integer > tp)
- native void widening_assign (Grid y, By_Reference< Integer > tp)
- native void limited_congruence_extrapolation_assign (Grid y, Congruence_System cs, By_Reference< Integer > tp)
- native void limited_generator_extrapolation_assign (Grid y, Congruence_System cs, By_Reference< Integer > tp)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native int hashCode ()
- native String toString ()

Static Public Member Functions

- static native Pair< Grid, Pointset_Powerset_Grid > approximate_partition (Grid p, Grid q, By_Reference< Boolean > finite)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Grid ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Grid_Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)

- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.29.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Grid.

Definition at line 33 of file Grid.java.

11.29.2 Constructor & Destructor Documentation

11.29.2.1 parma_polyhedra_library::Grid::Grid (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Grid.java.

References build_cpp_object().

11.29.2.2 parma_polyhedra_library::Grid::Grid () [inline, private]

Definition at line 45 of file Grid.java.

11.29.2.3 parma_polyhedra_library::Grid::Grid (Int8_Box *y*) [inline]

Definition at line 52 of file Grid.java.

References build_cpp_object().

11.29.2.4 parma_polyhedra_library::Grid::Grid (Int16_Box *y*) [inline]

Definition at line 56 of file Grid.java.

References build_cpp_object().

11.29.2.5 parma_polyhedra_library::Grid::Grid (Int32_Box *y*) [inline]

Definition at line 60 of file Grid.java.

References build_cpp_object().

11.29.2.6 parma_polyhedra_library::Grid::Grid (Int64_Box *y*) [inline]

Definition at line 64 of file Grid.java.

References build_cpp_object().

11.29.2.7 parma_polyhedra_library::Grid::Grid (Uint8_Box *y*) [inline]

Definition at line 68 of file Grid.java.

References build_cpp_object().

11.29.2.8 parma_polyhedra_library::Grid::Grid (Uint16_Box *y*) [inline]

Definition at line 72 of file Grid.java.

References build_cpp_object().

11.29.2.9 parma_polyhedra_library::Grid::Grid (Uint32_Box *y*) [inline]

Definition at line 76 of file Grid.java.

References build_cpp_object().

11.29.2.10 parma_polyhedra_library::Grid::Grid (Uint64_Box *y*) [inline]

Definition at line 80 of file Grid.java.

References build_cpp_object().

11.29.2.11 parma_polyhedra_library::Grid::Grid (Z_Box *y*) [inline]

Definition at line 84 of file Grid.java.

References build_cpp_object().

11.29.2.12 parma_polyhedra_library::Grid::Grid (Rational_Box *y*) [inline]

Definition at line 88 of file Grid.java.

References build_cpp_object().

11.29.2.13 parma_polyhedra_library::Grid::Grid (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Grid.java.

References build_cpp_object().

11.29.2.14 parma_polyhedra_library::Grid::Grid (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Grid.java.

References build_cpp_object().

11.29.2.15 parma_polyhedra_library::Grid::Grid (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Grid.java.

References build_cpp_object().

11.29.2.16 parma_polyhedra_library::Grid::Grid (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Grid.java.

References build_cpp_object().

11.29.2.17 parma_polyhedra_library::Grid::Grid (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Grid.java.

References build_cpp_object().

11.29.2.18 parma_polyhedra_library::Grid::Grid (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Grid.java.

References build_cpp_object().

11.29.2.19 parma_polyhedra_library::Grid::Grid (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Grid.java.

References build_cpp_object().

11.29.2.20 parma_polyhedra_library::Grid::Grid (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Grid.java.

References build_cpp_object().

11.29.2.21 parma_polyhedra_library::Grid::Grid (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Grid.java.

References build_cpp_object().

11.29.2.22 parma_polyhedra_library::Grid::Grid (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Grid.java.

References build_cpp_object().

11.29.2.23 parma_polyhedra_library::Grid::Grid (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Grid.java.

References build_cpp_object().

11.29.2.24 parma_polyhedra_library::Grid::Grid (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Grid.java.

References build_cpp_object().

11.29.2.25 parma_polyhedra_library::Grid::Grid (C_Polyhedron *y*) [inline]

Definition at line 140 of file Grid.java.

References build_cpp_object().

11.29.2.26 parma_polyhedra_library::Grid::Grid (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Grid.java.

References build_cpp_object().

11.29.2.27 parma_polyhedra_library::Grid::Grid (Grid *y*) [inline]

Definition at line 148 of file Grid.java.

References build_cpp_object().

11.29.2.28 parma_polyhedra_library::Grid::Grid (Float_Box *y*) [inline]

Definition at line 152 of file Grid.java.

References build_cpp_object().

11.29.2.29 parma_polyhedra_library::Grid::Grid (BD_Shape_float *y*) [inline]

Definition at line 156 of file Grid.java.

References build_cpp_object().

11.29.2.30 parma_polyhedra_library::Grid::Grid (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Grid.java.

References build_cpp_object().

11.29.2.31 parma_polyhedra_library::Grid::Grid (Double_Box *y*) [inline]

Definition at line 164 of file Grid.java.

References build_cpp_object().

11.29.2.32 parma_polyhedra_library::Grid::Grid (BD_Shape_double *y*) [inline]

Definition at line 168 of file Grid.java.

References build_cpp_object().

11.29.2.33 parma_polyhedra_library::Grid::Grid (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Grid.java.

References build_cpp_object().

11.29.2.34 parma_polyhedra_library::Grid::Grid (Long_Double_Box *y*) [inline]

Definition at line 176 of file Grid.java.

References build_cpp_object().

11.29.2.35 parma_polyhedra_library::Grid::Grid (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Grid.java.

References build_cpp_object().

11.29.2.36 parma_polyhedra_library::Grid::Grid (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Grid.java.

References build_cpp_object().

11.29.2.37 parma_polyhedra_library::Grid::Grid (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Grid.java.

References build_cpp_object().

11.29.2.38 parma_polyhedra_library::Grid::Grid (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Grid.java.

References build_cpp_object().

11.29.2.39 parma_polyhedra_library::Grid::Grid (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Grid.java.

References build_cpp_object().

11.29.2.40 parma_polyhedra_library::Grid::Grid (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Grid.java.

References build_cpp_object().

11.29.2.41 parma_polyhedra_library::Grid::Grid (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Grid.java.

References build_cpp_object().

11.29.2.42 parma_polyhedra_library::Grid::Grid (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Grid.java.

References build_cpp_object().

11.29.2.43 parma_polyhedra_library::Grid::Grid (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Grid.java.

References build_cpp_object().

11.29.2.44 parma_polyhedra_library::Grid::Grid (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Grid.java.

References build_cpp_object().

11.29.2.45 parma_polyhedra_library::Grid::Grid (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Grid.java.

References build_cpp_object().

11.29.2.46 parma_polyhedra_library::Grid::Grid (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Grid.java.

References build_cpp_object().

11.29.2.47 parma_polyhedra_library::Grid::Grid (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Grid.java.

References build_cpp_object().

11.29.2.48 parma_polyhedra_library::Grid::Grid (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Grid.java.

References build_cpp_object().

11.29.2.49 parma_polyhedra_library::Grid::Grid (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Grid.java.

References build_cpp_object().

11.29.2.50 parma_polyhedra_library::Grid::Grid (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Grid.java.

References build_cpp_object().

11.29.2.51 parma_polyhedra_library::Grid::Grid (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Grid.java.

References build_cpp_object().

11.29.2.52 parma_polyhedra_library::Grid::Grid (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Grid.java.

References build_cpp_object().

11.29.2.53 parma_polyhedra_library::Grid::Grid (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Grid.java.

References build_cpp_object().

11.29.2.54 parma_polyhedra_library::Grid::Grid (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Grid.java.

References build_cpp_object().

11.29.2.55 parma_polyhedra_library::Grid::Grid (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Grid.java.

References build_cpp_object().

11.29.2.56 parma_polyhedra_library::Grid::Grid (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Grid.java.

References build_cpp_object().

11.29.2.57 parma_polyhedra_library::Grid::Grid (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Grid.java.

References build_cpp_object().

11.29.2.58 parma_polyhedra_library::Grid::Grid (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Grid.java.

References build_cpp_object().

11.29.2.59 parma_polyhedra_library::Grid::Grid (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Grid.java.

References build_cpp_object().

11.29.2.60 parma_polyhedra_library::Grid::Grid (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Grid.java.

References build_cpp_object().

11.29.2.61 parma_polyhedra_library::Grid::Grid (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Grid.java.

References build_cpp_object().

11.29.2.62 parma_polyhedra_library::Grid::Grid (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Grid.java.

References build_cpp_object().

11.29.2.63 parma_polyhedra_library::Grid::Grid (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Grid.java.

References build_cpp_object().

11.29.2.64 parma_polyhedra_library::Grid::Grid (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Grid.java.

References build_cpp_object().

11.29.2.65 parma_polyhedra_library::Grid::Grid (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Grid.java.

References build_cpp_object().

11.29.2.66 parma_polyhedra_library::Grid::Grid (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Grid.java.

References build_cpp_object().

11.29.2.67 parma_polyhedra_library::Grid::Grid (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Grid.java.

References build_cpp_object().

11.29.2.68 parma_polyhedra_library::Grid::Grid (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Grid.java.

References build_cpp_object().

11.29.2.69 parma_polyhedra_library::Grid::Grid (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Grid.java.

References build_cpp_object().

11.29.2.70 parma_polyhedra_library::Grid::Grid (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Grid.java.

References build_cpp_object().

11.29.2.71 parma_polyhedra_library::Grid::Grid (Constraint_System *cs*) [inline]

Definition at line 334 of file Grid.java.

References build_cpp_object().

11.29.2.72 parma_polyhedra_library::Grid::Grid (Congruence_System *cs*) [inline]

Definition at line 338 of file Grid.java.

References build_cpp_object().

11.29.2.73 parma_polyhedra_library::Grid::Grid (Grid_Generator_System *cs*) [inline]

Definition at line 342 of file Grid.java.

References build_cpp_object().

11.29.3 Member Function Documentation

11.29.3.1 native void parma_polyhedra_library::Grid::add_congruence (Congruence *c*)

11.29.3.2 native void parma_polyhedra_library::Grid::add_congruences (Congruence_System *c*)

11.29.3.3 native void parma_polyhedra_library::Grid::add_constraint (Constraint *c*)

11.29.3.4 native void parma_polyhedra_library::Grid::add_constraints (Constraint_System *c*)

11.29.3.5 native void parma_polyhedra_library::Grid::add_grid_generator (Grid_Generator *c*)

11.29.3.6 native void parma_polyhedra_library::Grid::add_grid_generators (Grid_Generator_System *c*)

11.29.3.7 native void parma_polyhedra_library::Grid::add_space_dimensions_and_embed (long *m*)

11.29.3.8 native void parma_polyhedra_library::Grid::add_space_dimensions_and_project (long *m*)

11.29.3.9 native long parma_polyhedra_library::Grid::affine_dimension ()

11.29.3.10 native void parma_polyhedra_library::Grid::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.29.3.11 native void parma_polyhedra_library::Grid::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.29.3.12 static native Pair<Grid, Pointset_Powerset_Grid > parma_polyhedra_-library::Grid::approximate_partition (Grid *p*, Grid *q*, By_Reference< Boolean > *finite*) [static]

11.29.3.13 native String parma_polyhedra_library::Grid::ascii_dump ()

11.29.3.14 native void parma_polyhedra_library::Grid::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.29.3.15 native void parma_polyhedra_library::Grid::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.29.3.16 native boolean parma_polyhedra_library::Grid::bounds_from_above (Linear_Expression *expr*)

11.29.3.17 native boolean parma_polyhedra_library::Grid::bounds_from_below (Linear_Expression *expr*)

11.29.3.18 native void parma_polyhedra_library::Grid::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.29.3.19 native void parma_polyhedra_library::Grid::build_cpp_object (Octagonal_Shape_long_double *y*) [private]

11.29.3.20 native void parma_polyhedra_library::Grid::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.29.3.21 native void parma_polyhedra_library::Grid::build_cpp_object (BD_Shape_long_double *y*) [private]

11.29.3.22 native void parma_polyhedra_library::Grid::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.29.3.23 native void parma_polyhedra_library::Grid::build_cpp_object (Long_Double_Box *y*) [private]

11.29.3.24 native void parma_polyhedra_library::Grid::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.29.3.25 native void parma_polyhedra_library::Grid::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.29.3.26 native void parma_polyhedra_library::Grid::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.29.3.27 native void parma_polyhedra_library::Grid::build_cpp_object (BD_Shape_double *y*) [private]

11.29.3.28 native void parma_polyhedra_library::Grid::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.29.3.29 native void parma_polyhedra_library::Grid::build_cpp_object (Double_Box *y*) [private]

11.29.3.30 native void parma_polyhedra_library::Grid::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.29.3.31 native void parma_polyhedra_library::Grid::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.29.3.32 native void parma_polyhedra_library::Grid::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.29.3.33 native void parma_polyhedra_library::Grid::build_cpp_object (BD_Shape_float *y*) [private]

11.29.3.34 native void parma_polyhedra_library::Grid::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.29.3.35 native void parma_polyhedra_library::Grid::build_cpp_object (Float_Box *y*) [private]

11.29.3.36 native void parma_polyhedra_library::Grid::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.29.3.37 native void parma_polyhedra_library::Grid::build_cpp_object (Grid *y*) [private]

11.29.3.38 native void parma_polyhedra_library::Grid::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.29.3.39 native void parma_polyhedra_library::Grid::build_cpp_object (NNC_Polyhedron *y*) [private]

11.29.3.40 native void parma_polyhedra_library::Grid::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.29.3.41 native void parma_polyhedra_library::Grid::build_cpp_object (C_Polyhedron *y*) [private]

11.29.3.42 native void parma_polyhedra_library::Grid::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.29.3.43 native void parma_polyhedra_library::Grid::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.29.3.44 native void parma_polyhedra_library::Grid::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.29.3.45 native void parma_polyhedra_library::Grid::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.29.3.46 native void parma_polyhedra_library::Grid::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.29.3.47 native void parma_polyhedra_library::Grid::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.29.3.48 native void parma_polyhedra_library::Grid::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.29.3.49 native void parma_polyhedra_library::Grid::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.29.3.50 native void parma_polyhedra_library::Grid::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.29.3.51 native void parma_polyhedra_library::Grid::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.29.3.52 native void parma_polyhedra_library::Grid::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.29.3.53 native void parma_polyhedra_library::Grid::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.29.3.54 native void parma_polyhedra_library::Grid::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.29.3.55 native void parma_polyhedra_library::Grid::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.29.3.56 native void parma_polyhedra_library::Grid::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.29.3.57 native void parma_polyhedra_library::Grid::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.29.3.58 native void parma_polyhedra_library::Grid::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.29.3.59 native void parma_polyhedra_library::Grid::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.29.3.60 native void parma_polyhedra_library::Grid::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.29.3.61 native void parma_polyhedra_library::Grid::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.29.3.62 native void parma_polyhedra_library::Grid::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.29.3.63 native void parma_polyhedra_library::Grid::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.29.3.64 native void parma_polyhedra_library::Grid::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.29.3.65 native void parma_polyhedra_library::Grid::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.29.3.66 native void parma_polyhedra_library::Grid::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.29.3.67 native void parma_polyhedra_library::Grid::build_cpp_object (Rational_Box *y*) [private]

11.29.3.68 native void parma_polyhedra_library::Grid::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.29.3.69 native void parma_polyhedra_library::Grid::build_cpp_object (Z_Box *y*) [private]

11.29.3.70 native void parma_polyhedra_library::Grid::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.29.3.71 native void parma_polyhedra_library::Grid::build_cpp_object (Uint64_Box *y*) [private]

11.29.3.72 native void parma_polyhedra_library::Grid::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.29.3.73 native void parma_polyhedra_library::Grid::build_cpp_object (Uint32_Box *y*) [private]

11.29.3.74 native void parma_polyhedra_library::Grid::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.29.3.75 native void parma_polyhedra_library::Grid::build_cpp_object (Uint16_Box *y*) [private]

11.29.3.76 native void parma_polyhedra_library::Grid::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.29.3.77 native void parma_polyhedra_library::Grid::build_cpp_object (Uint8_Box *y*) [private]

11.29.3.78 native void parma_polyhedra_library::Grid::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.29.3.79 native void parma_polyhedra_library::Grid::build_cpp_object (Int64_Box *y*) [private]

11.29.3.80 native void parma_polyhedra_library::Grid::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.29.3.81 native void parma_polyhedra_library::Grid::build_cpp_object (Int32_Box *y*) [private]

11.29.3.82 native void parma_polyhedra_library::Grid::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.29.3.83 native void parma_polyhedra_library::Grid::build_cpp_object (Int16_Box *y*) [private]

11.29.3.84 native void parma_polyhedra_library::Grid::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.29.3.85 native void parma_polyhedra_library::Grid::build_cpp_object (Int8_Box *y*) [private]

11.29.3.86 native void parma_polyhedra_library::Grid::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.29.3.87 native void parma_polyhedra_library::Grid::build_cpp_object (Grid_Generator_System *cs*) [private]

11.29.3.88 native void parma_polyhedra_library::Grid::build_cpp_object (Congruence_System *cs*) [private]

11.29.3.89 native void parma_polyhedra_library::Grid::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Grid().

11.29.3.90 native void parma_polyhedra_library::Grid::concatenate_assign (Grid *p*)

11.29.3.91 native void parma_polyhedra_library::Grid::congruence_widening_assign (Grid *y*, By_Reference< Integer > *tp*)

11.29.3.92 native Congruence_System parma_polyhedra_library::Grid::congruences ()

11.29.3.93 native boolean parma_polyhedra_library::Grid::constrains (Variable *var*)

11.29.3.94 native Constraint_System parma_polyhedra_library::Grid::constraints ()

11.29.3.95 native boolean parma_polyhedra_library::Grid::contains (Grid *y*)

11.29.3.96 native boolean parma_polyhedra_library::Grid::contains_integer_point ()

11.29.3.97 native void parma_polyhedra_library::Grid::difference_assign (Grid *p*)

11.29.3.98 native void parma_polyhedra_library::Grid::drop_some_non_integer_points (Integer *complexity_threshold*)

11.29.3.99 native void parma_polyhedra_library::Grid::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.29.3.100 boolean parma_polyhedra_library::Grid::equals (Object *y*) `[inline]`

Definition at line 471 of file Grid.java.

References equals().

11.29.3.101 native boolean parma_polyhedra_library::Grid::equals (Grid *p*)

Referenced by equals().

11.29.3.102 native void parma_polyhedra_library::Grid::expand_space_dimension (Variable *var*, long *m*)

11.29.3.103 native long parma_polyhedra_library::Grid::external_memory_in_bytes ()

11.29.3.104 native void parma_polyhedra_library::Grid::finalize () `[protected]`

11.29.3.105 native void parma_polyhedra_library::Grid::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.29.3.106 native void parma_polyhedra_library::Grid::free ()

11.29.3.107 native boolean parma_polyhedra_library::Grid::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.29.3.108 native void parma_polyhedra_library::Grid::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.29.3.109 native void parma_polyhedra_library::Grid::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.29.3.110 native void parma_polyhedra_library::Grid::generalized_affine_image_lhs_rhs_with_congruence (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*, Coefficient *modulus*)

11.29.3.111 native void parma_polyhedra_library::Grid::generalized_affine_image_with_congruence (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*, Coefficient *modulus*)

11.29.3.112 native void parma_polyhedra_library::Grid::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.29.3.113 native void parma_polyhedra_library::Grid::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.29.3.114 native void parma_polyhedra_library::Grid::generalized_affine_preimage_lhs_rhs_with_congruence (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*, Coefficient *modulus*)

11.29.3.115 native void parma_polyhedra_library::Grid::generalized_affine_preimage_with_congruence (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*, Coefficient *modulus*)

11.29.3.116 native void parma_polyhedra_library::Grid::generator_widening_assign (Grid *y*, By_Reference< Integer > *tp*)

11.29.3.117 native Grid_Generator_System parma_polyhedra_library::Grid::grid_generators ()

11.29.3.118 native int parma_polyhedra_library::Grid::hashCode ()

11.29.3.119 native void parma_polyhedra_library::Grid::intersection_assign (Grid *p*)

11.29.3.120 native boolean parma_polyhedra_library::Grid::is_bounded ()

11.29.3.121 native boolean parma_polyhedra_library::Grid::is_discrete ()

11.29.3.122 native boolean parma_polyhedra_library::Grid::is_disjoint_from (Grid *y*)

11.29.3.123 native boolean parma_polyhedra_library::Grid::is_empty ()

11.29.3.124 native boolean parma_polyhedra_library::Grid::is_topologically_closed ()

11.29.3.125 native boolean parma_polyhedra_library::Grid::is_universe ()

11.29.3.126 native void parma_polyhedra_library::Grid::limited_congruence_extrapolation_assign (Grid *y*, Congruence_System *cs*, By_Reference< Integer > *tp*)

11.29.3.127 native void parma_polyhedra_library::Grid::limited_generator_extrapolation_assign (Grid *y*, Congruence_System *cs*, By_Reference< Integer > *tp*)

11.29.3.128 native void parma_polyhedra_library::Grid::map_space_dimensions (Partial_Function *pfunc*)

11.29.3.129 native boolean parma_polyhedra_library::Grid::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.29.3.130 native boolean parma_polyhedra_library::Grid::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.29.3.131 native boolean parma_polyhedra_library::Grid::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.29.3.132 native boolean parma_polyhedra_library::Grid::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.29.3.133 native Congruence_System parma_polyhedra_library::Grid::minimized_congruences ()

11.29.3.134 native Constraint_System parma_polyhedra_library::Grid::minimized_constraints ()

11.29.3.135 native Grid_Generator_System parma_polyhedra_library::Grid::minimized_grid_generators ()

11.29.3.136 native boolean parma_polyhedra_library::Grid::OK ()

11.29.3.137 native void parma_polyhedra_library::Grid::refine_with_congruence (Congruence *c*)

11.29.3.138 native void parma_polyhedra_library::Grid::refine_with_congruences (Congruence_System *c*)

11.29.3.139 native void parma_polyhedra_library::Grid::refine_with_constraint (Constraint *c*)

11.29.3.140 native void parma_polyhedra_library::Grid::refine_with_constraints (Constraint_System *c*)

11.29.3.141 native Poly_Gen_Relation parma_polyhedra_library::Grid::relation_with (Grid_Generator *c*)

11.29.3.142 native Poly_Con_Relation parma_polyhedra_library::Grid::relation_with (Congruence *c*)

11.29.3.143 native Poly_Gen_Relation parma_polyhedra_library::Grid::relation_with (Generator *c*)

11.29.3.144 native Poly_Con_Relation parma_polyhedra_library::Grid::relation_with (Constraint *c*)

11.29.3.145 native void parma_polyhedra_library::Grid::remove_higher_space_dimensions (long *new_dimension*)

11.29.3.146 native void parma_polyhedra_library::Grid::remove_space_dimensions (Variables_Set *vars*)

11.29.3.147 native boolean parma_polyhedra_library::Grid::simplify_using_context_assign (Grid *p*)

11.29.3.148 native long parma_polyhedra_library::Grid::space_dimension ()

11.29.3.149 native boolean parma_polyhedra_library::Grid::strictly_contains (Grid *y*)

11.29.3.150 native void parma_polyhedra_library::Grid::swap (Grid *y*)

11.29.3.151 native void parma_polyhedra_library::Grid::time_elapse_assign (Grid *p*)

11.29.3.152 native void parma_polyhedra_library::Grid::topological_closure_assign ()

11.29.3.153 native String parma_polyhedra_library::Grid::toString ()

11.29.3.154 native long parma_polyhedra_library::Grid::total_memory_in_bytes ()

11.29.3.155 native void parma_polyhedra_library::Grid::unconstrain_space_dimension (Variable *var*)

11.29.3.156 native void parma_polyhedra_library::Grid::unconstrain_space_dimensions (Variables_Set *vars*)

11.29.3.157 native void parma_polyhedra_library::Grid::upper_bound_assign (Grid *p*)

11.29.3.158 native boolean parma_polyhedra_library::Grid::upper_bound_assign_if_exact (Grid *y*)

11.29.3.159 native void parma_polyhedra_library::Grid::widening_assign (Grid *y*, By_Reference< Integer > *tp*)

11.29.3.160 native void parma_polyhedra_library::Grid::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

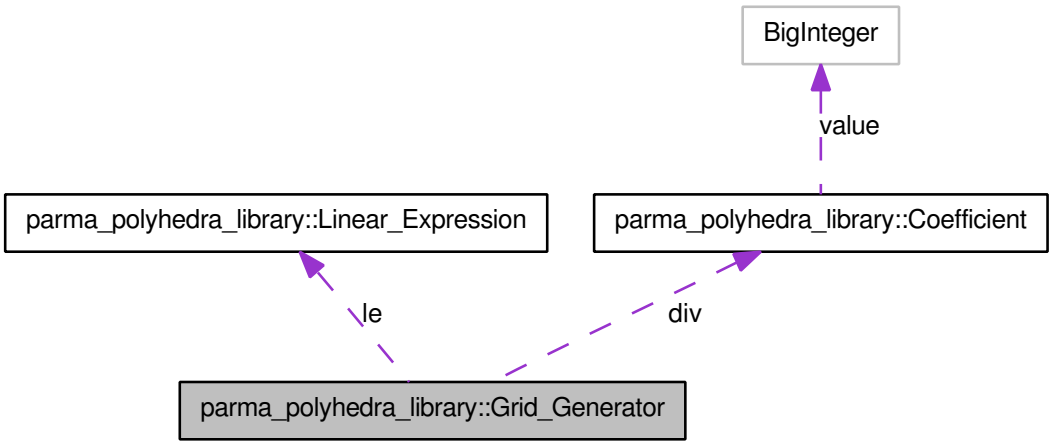
The documentation for this class was generated from the following file:

- Grid.java

11.30 parma_polyhedra_library::Grid_Generator Class Reference

A grid line, parameter or grid point.

Collaboration diagram for parma_polyhedra_library::Grid_Generator:



Public Member Functions

- Grid_Generator_Type type ()
  Returns the generator type.
- Linear_Expression linear_expression ()
  Returns the linear expression in `this`.
- Coefficient divisor ()
  If `this` *is either a grid point or a parameter, returns its divisor.*
- native String ascii_dump ()
  Returns an ascii formatted internal representation of `this`.
- native String toString ()
  Returns a string representation of `this`.

Static Public Member Functions

- static Grid_Generator grid_line (Linear_Expression e)
  Returns the line of direction `e`.
- static Grid_Generator parameter (Linear_Expression e, Coefficient d)
  Returns the parameter at `e` / `d`.
- static Grid_Generator grid_point (Linear_Expression e, Coefficient d)
  Returns the point at `e` / `d`.

Static Package Functions

- [static initializer]

Private Member Functions

- Grid_Generator (Linear_Expression e, Coefficient d, Grid_Generator_Type generator_type)

Static Private Member Functions

- static native void initIDs ()

Private Attributes

- Grid_Generator_Type gt

  The grid generator type.

- Linear_Expression le

  The linear expression.

- Coefficient div

  The coefficient used if the grid generator is a parameter or a grid point a parameter.

11.30.1 Detailed Description

A grid line, parameter or grid point. An object of the class Grid_Generator is one of the following:

- a grid_line;
- a parameter;
- a grid_point.

Definition at line 37 of file Grid_Generator.java.

11.30.2 Constructor & Destructor Documentation

11.30.2.1 parma_polyhedra_library::Grid_Generator::Grid_Generator (Linear_Expression *e*, Coefficient *d*, Grid_Generator_Type *generator_type*) [inline, private]

Definition at line 51 of file Grid_Generator.java.

References parma_polyhedra_library::Linear_Expression::clone(), div, gt, and le.

Referenced by grid_line(), grid_point(), and parameter().

11.30.3 Member Function Documentation

11.30.3.1 parma_polyhedra_library::Grid_Generator::[static initializer] () [inline, static, package]

11.30.3.2 native String parma_polyhedra_library::Grid_Generator::ascii_dump ()

Returns an ascii formatted internal representation of `this`.

11.30.3.3 Coefficient parma_polyhedra_library::Grid_Generator::divisor () [inline]

If `this` is either a grid point or a parameter, returns its divisor.

Exceptions

RuntimeErrorException Thrown if `this` is a line.

Definition at line 104 of file Grid_Generator.java.

References div, and gt.

11.30.3.4 static Grid_Generator parma_polyhedra_library::Grid_Generator::grid_line (Linear_Expression *e*) [inline, static]

Returns the line of direction `e`.

Exceptions

RuntimeErrorException Thrown if the homogeneous part of `e` represents the origin of the vector space.

Definition at line 64 of file Grid_Generator.java.

References Grid_Generator().

11.30.3.5 static Grid_Generator parma_polyhedra_library::Grid_Generator::grid_point (Linear_Expression *e*, Coefficient *d*) [inline, static]

Returns the point at `e` / `d`.

Exceptions

RuntimeErrorException Thrown if `d` is zero.

Definition at line 84 of file Grid_Generator.java.

References Grid_Generator().

11.30.3.6 static native void parma_polyhedra_library::Grid_Generator::initIDs () [static, private]

11.30.3.7 Linear_Expression parma_polyhedra_library::Grid_Generator::linear_expression () [inline]

Returns the linear expression in `this`.

Definition at line 95 of file Grid_Generator.java.

References le.

11.30.3.8 static Grid_Generator parma_polyhedra_library::Grid_Generator::parameter (Linear_Expression *e*, Coefficient *d*) [inline, static]

Returns the parameter at `e` / `d`.

Exceptions

RuntimeErrorException Thrown if `d` is zero.

Definition at line 74 of file Grid_Generator.java.

References Grid_Generator().

11.30.3.9 native String parma_polyhedra_library::Grid_Generator::toString ()

Returns a string representation of `this`.

11.30.3.10 Grid_Generator_Type parma_polyhedra_library::Grid_Generator::type () [inline]

Returns the generator type.

Definition at line 90 of file Grid_Generator.java.

References gt.

11.30.4 Member Data Documentation

11.30.4.1 Coefficient parma_polyhedra_library::Grid_Generator::div [private]

The coefficient used if the grid generator is a parameter or a grid point a parameter.

Definition at line 49 of file Grid_Generator.java.

Referenced by divisor(), and Grid_Generator().

11.30.4.2 Grid_Generator_Type parma_polyhedra_library::Grid_Generator::gt [private]

The grid generator type.

Definition at line 40 of file Grid_Generator.java.

Referenced by divisor(), Grid_Generator(), and type().

11.30.4.3 Linear_Expression parma_polyhedra_library::Grid_Generator::le [private]

The linear expression.

Definition at line 43 of file Grid_Generator.java.

Referenced by Grid_Generator(), and linear_expression().

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

- Grid_Generator.java

11.31 parma_polyhedra_library::Grid_Generator_System Class Reference

A system of grid generators.

Public Member Functions

- Grid_Generator_System ()
  Default constructor: builds an empty system of grid generators.
- native String ascii_dump ()
  Returns an ascii formatted internal representation of `this`.
- native String toString ()
  Returns a string representation of `this`.

Static Package Functions

- [static initializer]

Static Private Member Functions

- static native void initIDs ()

11.31.1 Detailed Description

A system of grid generators. An object of the class Grid_Generator_System is a system of grid generators, i.e., a multiset of objects of the class Grid_Generator.

Definition at line 35 of file Grid_Generator_System.java.

11.31.2 Constructor & Destructor Documentation

11.31.2.1 parma_polyhedra_library::Grid_Generator_System::Grid_Generator_System () [inline]

Default constructor: builds an empty system of grid generators.

Definition at line 38 of file Grid_Generator_System.java.

11.31.3 Member Function Documentation

11.31.3.1 parma_polyhedra_library::Grid_Generator_System::[static initializer] () [inline, static, package]

11.31.3.2 native String parma_polyhedra_library::Grid_Generator_System::ascii_dump ()

Returns an ascii formatted internal representation of `this`.

11.31.3.3 static native void parma_polyhedra_library::Grid_Generator_System::initIDs () [static, private]

11.31.3.4 native String parma_polyhedra_library::Grid_Generator_System::toString ()

Returns a string representation of `this`.

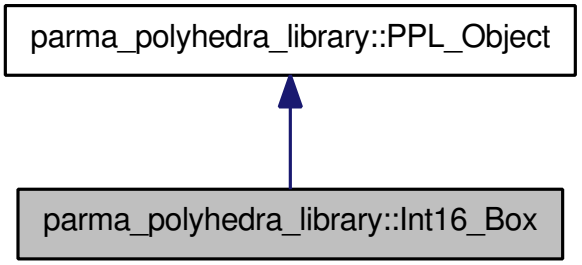
The documentation for this class was generated from the following file:

- Grid_Generator_System.java

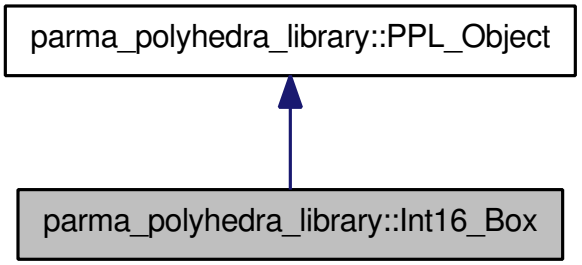
11.32 parma_polyhedra_library::Int16_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Int16_Box.

Inheritance diagram for parma_polyhedra_library::Int16_Box:



Collaboration diagram for parma_polyhedra_library::Int16_Box:



Public Member Functions

- Int16_Box (long num_dimensions, Degenerate_Element kind)
- Int16_Box (Int8_Box y)
- Int16_Box (Int16_Box y)
- Int16_Box (Int32_Box y)
- Int16_Box (Int64_Box y)
- Int16_Box (Uint8_Box y)
- Int16_Box (Uint16_Box y)
- Int16_Box (Uint32_Box y)
- Int16_Box (Uint64_Box y)
- Int16_Box (Z_Box y)
- Int16_Box (Rational_Box y)
- Int16_Box (BD_Shape_int8_t y)
- Int16_Box (BD_Shape_int16_t y)
- Int16_Box (BD_Shape_int32_t y)
- Int16_Box (BD_Shape_int64_t y)
- Int16_Box (BD_Shape_mpz_class y)
- Int16_Box (BD_Shape_mpq_class y)
- Int16_Box (Octagonal_Shape_int8_t y)
- Int16_Box (Octagonal_Shape_int16_t y)
- Int16_Box (Octagonal_Shape_int32_t y)
- Int16_Box (Octagonal_Shape_int64_t y)
- Int16_Box (Octagonal_Shape_mpz_class y)
- Int16_Box (Octagonal_Shape_mpq_class y)

- Int16_Box (C_Polyhedron y)
- Int16_Box (NNC_Polyhedron y)
- Int16_Box (Grid y)
- Int16_Box (Float_Box y)
- Int16_Box (BD_Shape_float y)
- Int16_Box (Octagonal_Shape_float y)
- Int16_Box (Double_Box y)
- Int16_Box (BD_Shape_double y)
- Int16_Box (Octagonal_Shape_double y)
- Int16_Box (Long_Double_Box y)
- Int16_Box (BD_Shape_long_double y)
- Int16_Box (Octagonal_Shape_long_double y)
- Int16_Box (Int8_Box y, Complexity_Class complexity)
- Int16_Box (Int16_Box y, Complexity_Class complexity)
- Int16_Box (Int32_Box y, Complexity_Class complexity)
- Int16_Box (Int64_Box y, Complexity_Class complexity)
- Int16_Box (Uint8_Box y, Complexity_Class complexity)
- Int16_Box (Uint16_Box y, Complexity_Class complexity)
- Int16_Box (Uint32_Box y, Complexity_Class complexity)
- Int16_Box (Uint64_Box y, Complexity_Class complexity)
- Int16_Box (Z_Box y, Complexity_Class complexity)
- Int16_Box (Rational_Box y, Complexity_Class complexity)
- Int16_Box (BD_Shape_int8_t y, Complexity_Class complexity)
- Int16_Box (BD_Shape_int16_t y, Complexity_Class complexity)
- Int16_Box (BD_Shape_int32_t y, Complexity_Class complexity)
- Int16_Box (BD_Shape_int64_t y, Complexity_Class complexity)
- Int16_Box (BD_Shape_mpz_class y, Complexity_Class complexity)
- Int16_Box (BD_Shape_mpq_class y, Complexity_Class complexity)
- Int16_Box (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Int16_Box (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Int16_Box (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Int16_Box (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Int16_Box (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Int16_Box (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Int16_Box (C_Polyhedron y, Complexity_Class complexity)
- Int16_Box (NNC_Polyhedron y, Complexity_Class complexity)
- Int16_Box (Grid y, Complexity_Class complexity)
- Int16_Box (Float_Box y, Complexity_Class complexity)
- Int16_Box (BD_Shape_float y, Complexity_Class complexity)
- Int16_Box (Octagonal_Shape_float y, Complexity_Class complexity)
- Int16_Box (Double_Box y, Complexity_Class complexity)
- Int16_Box (BD_Shape_double y, Complexity_Class complexity)
- Int16_Box (Octagonal_Shape_double y, Complexity_Class complexity)
- Int16_Box (Long_Double_Box y, Complexity_Class complexity)
- Int16_Box (BD_Shape_long_double y, Complexity_Class complexity)
- Int16_Box (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Int16_Box (Constraint_System cs)
- Int16_Box (Congruence_System cs)
- Int16_Box (Generator_System cs)
- native void swap (Int16_Box y)

- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Int16_Box y)
- native boolean strictly_contains (Int16_Box y)
- native boolean is_disjoint_from (Int16_Box y)
- native boolean equals (Int16_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Int16_Box p)
- native void upper_bound_assign (Int16_Box p)
- native void difference_assign (Int16_Box p)
- native void concatenate_assign (Int16_Box p)
- native void time_elapse_assign (Int16_Box p)
- native boolean upper_bound_assign_if_exact (Int16_Box y)
- native boolean simplify_using_context_assign (Int16_Box p)
- native boolean constrains (Variable var)

- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void CC76_widening_assign (Int16_Box y, By_Reference< Integer > tp)
- native void widening_assign (Int16_Box y, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Int16_Box y, Constraint_System cs, By_Reference< Integer > tp)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native String toString ()

Static Public Member Functions

- static native Pair< Int16_Box, Pointset_Powerset_NNC_Polyhedron > linear_partition (Int16_Box p, Int16_Box q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Int16_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)

- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.32.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Int16_Box.

Definition at line 33 of file Int16_Box.java.

11.32.2 Constructor & Destructor Documentation

11.32.2.1 parma_polyhedra_library::Int16_Box::Int16_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Int16_Box.java.

References build_cpp_object().

11.32.2.2 parma_polyhedra_library::Int16_Box::Int16_Box () [inline, private]

Definition at line 45 of file Int16_Box.java.

11.32.2.3 parma_polyhedra_library::Int16_Box::Int16_Box (Int8_Box *y*) [inline]

Definition at line 52 of file Int16_Box.java.

References build_cpp_object().

11.32.2.4 parma_polyhedra_library::Int16_Box::Int16_Box (Int16_Box *y*) [inline]

Definition at line 56 of file Int16_Box.java.

References build_cpp_object().

11.32.2.5 parma_polyhedra_library::Int16_Box::Int16_Box (Int32_Box *y*) [inline]

Definition at line 60 of file Int16_Box.java.

References build_cpp_object().

11.32.2.6 parma_polyhedra_library::Int16_Box::Int16_Box (Int64_Box *y*) [inline]

Definition at line 64 of file Int16_Box.java.

References build_cpp_object().

11.32.2.7 parma_polyhedra_library::Int16_Box::Int16_Box (Uint8_Box *y*) [inline]

Definition at line 68 of file Int16_Box.java.

References build_cpp_object().

11.32.2.8 parma_polyhedra_library::Int16_Box::Int16_Box (Uint16_Box *y*) [inline]

Definition at line 72 of file Int16_Box.java.

References build_cpp_object().

11.32.2.9 parma_polyhedra_library::Int16_Box::Int16_Box (Uint32_Box *y*) [inline]

Definition at line 76 of file Int16_Box.java.

References build_cpp_object().

11.32.2.10 parma_polyhedra_library::Int16_Box::Int16_Box (Uint64_Box *y*) [inline]

Definition at line 80 of file Int16_Box.java.

References build_cpp_object().

11.32.2.11 parma_polyhedra_library::Int16_Box::Int16_Box (Z_Box *y*) [inline]

Definition at line 84 of file Int16_Box.java.

References build_cpp_object().

11.32.2.12 parma_polyhedra_library::Int16_Box::Int16_Box (Rational_Box *y*) [inline]

Definition at line 88 of file Int16_Box.java.

References build_cpp_object().

11.32.2.13 parma_polyhedra_library::Int16_Box::Int16_Box (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Int16_Box.java.

References build_cpp_object().

11.32.2.14 parma_polyhedra_library::Int16_Box::Int16_Box (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Int16_Box.java.

References build_cpp_object().

11.32.2.15 parma_polyhedra_library::Int16_Box::Int16_Box (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Int16_Box.java.

References build_cpp_object().

11.32.2.16 parma_polyhedra_library::Int16_Box::Int16_Box (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Int16_Box.java.

References build_cpp_object().

11.32.2.17 parma_polyhedra_library::Int16_Box::Int16_Box (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Int16_Box.java.

References build_cpp_object().

11.32.2.18 parma_polyhedra_library::Int16_Box::Int16_Box (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Int16_Box.java.

References build_cpp_object().

11.32.2.19 parma_polyhedra_library::Int16_Box::Int16_Box (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Int16_Box.java.

References build_cpp_object().

11.32.2.20 parma_polyhedra_library::Int16_Box::Int16_Box (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Int16_Box.java.

References build_cpp_object().

11.32.2.21 parma_polyhedra_library::Int16_Box::Int16_Box (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Int16_Box.java.

References build_cpp_object().

11.32.2.22 parma_polyhedra_library::Int16_Box::Int16_Box (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Int16_Box.java.

References build_cpp_object().

11.32.2.23 parma_polyhedra_library::Int16_Box::Int16_Box (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Int16_Box.java.

References build_cpp_object().

11.32.2.24 parma_polyhedra_library::Int16_Box::Int16_Box (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Int16_Box.java.

References build_cpp_object().

11.32.2.25 parma_polyhedra_library::Int16_Box::Int16_Box (C_Polyhedron *y*) [inline]

Definition at line 140 of file Int16_Box.java.

References build_cpp_object().

11.32.2.26 parma_polyhedra_library::Int16_Box::Int16_Box (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Int16_Box.java.

References build_cpp_object().

11.32.2.27 parma_polyhedra_library::Int16_Box::Int16_Box (Grid *y*) [inline]

Definition at line 148 of file Int16_Box.java.

References build_cpp_object().

11.32.2.28 parma_polyhedra_library::Int16_Box::Int16_Box (Float_Box *y*) [inline]

Definition at line 152 of file Int16_Box.java.

References build_cpp_object().

11.32.2.29 parma_polyhedra_library::Int16_Box::Int16_Box (BD_Shape_float *y*) [inline]

Definition at line 156 of file Int16_Box.java.

References build_cpp_object().

11.32.2.30 parma_polyhedra_library::Int16_Box::Int16_Box (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Int16_Box.java.

References build_cpp_object().

11.32.2.31 parma_polyhedra_library::Int16_Box::Int16_Box (Double_Box *y*) [inline]

Definition at line 164 of file Int16_Box.java.

References build_cpp_object().

11.32.2.32 parma_polyhedra_library::Int16_Box::Int16_Box (BD_Shape_double *y*) [inline]

Definition at line 168 of file Int16_Box.java.

References build_cpp_object().

11.32.2.33 parma_polyhedra_library::Int16_Box::Int16_Box (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Int16_Box.java.

References build_cpp_object().

11.32.2.34 parma_polyhedra_library::Int16_Box::Int16_Box (Long_Double_Box *y*) [inline]

Definition at line 176 of file Int16_Box.java.

References build_cpp_object().

11.32.2.35 parma_polyhedra_library::Int16_Box::Int16_Box (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Int16_Box.java.

References build_cpp_object().

11.32.2.36 parma_polyhedra_library::Int16_Box::Int16_Box (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Int16_Box.java.

References build_cpp_object().

11.32.2.37 parma_polyhedra_library::Int16_Box::Int16_Box (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Int16_Box.java.

References build_cpp_object().

11.32.2.38 parma_polyhedra_library::Int16_Box::Int16_Box (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Int16_Box.java.

References build_cpp_object().

11.32.2.39 parma_polyhedra_library::Int16_Box::Int16_Box (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Int16_Box.java.

References build_cpp_object().

11.32.2.40 parma_polyhedra_library::Int16_Box::Int16_Box (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Int16_Box.java.

References build_cpp_object().

11.32.2.41 parma_polyhedra_library::Int16_Box::Int16_Box (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Int16_Box.java.

References build_cpp_object().

11.32.2.42 parma_polyhedra_library::Int16_Box::Int16_Box (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Int16_Box.java.

References build_cpp_object().

11.32.2.43 parma_polyhedra_library::Int16_Box::Int16_Box (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Int16_Box.java.

References build_cpp_object().

11.32.2.44 parma_polyhedra_library::Int16_Box::Int16_Box (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Int16_Box.java.

References build_cpp_object().

11.32.2.45 parma_polyhedra_library::Int16_Box::Int16_Box (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Int16_Box.java.

References build_cpp_object().

11.32.2.46 parma_polyhedra_library::Int16_Box::Int16_Box (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Int16_Box.java.

References build_cpp_object().

11.32.2.47 parma_polyhedra_library::Int16_Box::Int16_Box (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Int16_Box.java.

References build_cpp_object().

11.32.2.48 parma_polyhedra_library::Int16_Box::Int16_Box (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Int16_Box.java.

References build_cpp_object().

11.32.2.49 parma_polyhedra_library::Int16_Box::Int16_Box (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Int16_Box.java.

References build_cpp_object().

11.32.2.50 parma_polyhedra_library::Int16_Box::Int16_Box (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Int16_Box.java.

References build_cpp_object().

11.32.2.51 parma_polyhedra_library::Int16_Box::Int16_Box (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Int16_Box.java.

References build_cpp_object().

11.32.2.52 parma_polyhedra_library::Int16_Box::Int16_Box (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Int16_Box.java.

References build_cpp_object().

11.32.2.53 parma_polyhedra_library::Int16_Box::Int16_Box (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Int16_Box.java.

References build_cpp_object().

11.32.2.54 parma_polyhedra_library::Int16_Box::Int16_Box (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Int16_Box.java.

References build_cpp_object().

11.32.2.55 parma_polyhedra_library::Int16_Box::Int16_Box (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Int16_Box.java.

References build_cpp_object().

11.32.2.56 parma_polyhedra_library::Int16_Box::Int16_Box (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Int16_Box.java.

References build_cpp_object().

11.32.2.57 parma_polyhedra_library::Int16_Box::Int16_Box (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Int16_Box.java.

References build_cpp_object().

11.32.2.58 parma_polyhedra_library::Int16_Box::Int16_Box (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Int16_Box.java.

References build_cpp_object().

11.32.2.59 parma_polyhedra_library::Int16_Box::Int16_Box (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Int16_Box.java.

References build_cpp_object().

11.32.2.60 parma_polyhedra_library::Int16_Box::Int16_Box (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Int16_Box.java.

References build_cpp_object().

11.32.2.61 parma_polyhedra_library::Int16_Box::Int16_Box (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Int16_Box.java.

References build_cpp_object().

11.32.2.62 parma_polyhedra_library::Int16_Box::Int16_Box (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Int16_Box.java.

References build_cpp_object().

11.32.2.63 parma_polyhedra_library::Int16_Box::Int16_Box (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Int16_Box.java.

References build_cpp_object().

11.32.2.64 parma_polyhedra_library::Int16_Box::Int16_Box (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Int16_Box.java.

References build_cpp_object().

11.32.2.65 parma_polyhedra_library::Int16_Box::Int16_Box (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Int16_Box.java.

References build_cpp_object().

11.32.2.66 parma_polyhedra_library::Int16_Box::Int16_Box (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Int16_Box.java.

References build_cpp_object().

11.32.2.67 parma_polyhedra_library::Int16_Box::Int16_Box (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Int16_Box.java.

References build_cpp_object().

11.32.2.68 parma_polyhedra_library::Int16_Box::Int16_Box (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Int16_Box.java.

References build_cpp_object().

11.32.2.69 parma_polyhedra_library::Int16_Box::Int16_Box (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Int16_Box.java.

References build_cpp_object().

11.32.2.70 parma_polyhedra_library::Int16_Box::Int16_Box (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Int16_Box.java.

References build_cpp_object().

11.32.2.71 parma_polyhedra_library::Int16_Box::Int16_Box (Constraint_System *cs*) [inline]

Definition at line 334 of file Int16_Box.java.

References build_cpp_object().

11.32.2.72 parma_polyhedra_library::Int16_Box::Int16_Box (Congruence_System *cs*) [inline]

Definition at line 338 of file Int16_Box.java.

References build_cpp_object().

11.32.2.73 parma_polyhedra_library::Int16_Box::Int16_Box (Generator_System *cs*) [inline]

Definition at line 342 of file Int16_Box.java.

References build_cpp_object().

11.32.3 Member Function Documentation

11.32.3.1 native void parma_polyhedra_library::Int16_Box::add_congruence (Congruence *c*)

11.32.3.2 native void parma_polyhedra_library::Int16_Box::add_congruences (Congruence_System *c*)

11.32.3.3 native void parma_polyhedra_library::Int16_Box::add_constraint (Constraint *c*)

11.32.3.4 native void parma_polyhedra_library::Int16_Box::add_constraints (Constraint_System *c*)

11.32.3.5 native void parma_polyhedra_library::Int16_Box::add_space_dimensions_and_embed (long *m*)

11.32.3.6 native void parma_polyhedra_library::Int16_Box::add_space_dimensions_and_project (long *m*)

11.32.3.7 native long parma_polyhedra_library::Int16_Box::affine_dimension ()

11.32.3.8 native void parma_polyhedra_library::Int16_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.32.3.9 native void parma_polyhedra_library::Int16_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.32.3.10 native String parma_polyhedra_library::Int16_Box::ascii_dump ()

11.32.3.11 native void parma_polyhedra_library::Int16_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.32.3.12 native void parma_polyhedra_library::Int16_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.32.3.13 native boolean parma_polyhedra_library::Int16_Box::bounds_from_above (Linear_Expression *expr*)

11.32.3.14 native boolean parma_polyhedra_library::Int16_Box::bounds_from_below (Linear_Expression *expr*)

11.32.3.15 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.32.3.16 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.32.3.17 native void parma_polyhedra_library::Int16_Box::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.32.3.18 native void parma_polyhedra_library::Int16_Box::build_cpp_object (BD_Shape_long_double *y*) `[private]`

11.32.3.19 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) `[private]`

11.32.3.20 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Long_Double_Box *y*) [private]

11.32.3.21 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.32.3.22 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.32.3.23 native void parma_polyhedra_library::Int16_Box::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.32.3.24 native void parma_polyhedra_library::Int16_Box::build_cpp_object (BD_Shape_double *y*) [private]

11.32.3.25 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.32.3.26 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Double_Box *y*) [private]

11.32.3.27 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.32.3.28 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.32.3.29 native void parma_polyhedra_library::Int16_Box::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.32.3.30 native void parma_polyhedra_library::Int16_Box::build_cpp_object (BD_Shape_float *y*) [private]

11.32.3.31 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.32.3.32 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Float_Box *y*) [private]

11.32.3.33 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.32.3.34 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Grid *y*) [private]

11.32.3.35 native void parma_polyhedra_library::Int16_Box::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.32.3.36 native void parma_polyhedra_library::Int16_Box::build_cpp_object (NNC_Polyhedron *y*) [private]

11.32.3.37 native void parma_polyhedra_library::Int16_Box::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.32.3.38 native void parma_polyhedra_library::Int16_Box::build_cpp_object (C_Polyhedron *y*) [private]

11.32.3.39 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.32.3.40 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.32.3.41 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.32.3.42 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.32.3.43 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.32.3.44 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.32.3.45 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.32.3.46 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.32.3.47 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.32.3.48 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.32.3.49 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.32.3.50 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.32.3.51 native void parma_polyhedra_library::Int16_Box::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.32.3.52 native void parma_polyhedra_library::Int16_Box::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.32.3.53 native void parma_polyhedra_library::Int16_Box::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.32.3.54 native void parma_polyhedra_library::Int16_Box::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.32.3.55 native void parma_polyhedra_library::Int16_Box::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.32.3.56 native void parma_polyhedra_library::Int16_Box::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.32.3.57 native void parma_polyhedra_library::Int16_Box::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.32.3.58 native void parma_polyhedra_library::Int16_Box::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.32.3.59 native void parma_polyhedra_library::Int16_Box::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.32.3.60 native void parma_polyhedra_library::Int16_Box::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.32.3.61 native void parma_polyhedra_library::Int16_Box::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.32.3.62 native void parma_polyhedra_library::Int16_Box::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.32.3.63 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.32.3.64 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Rational_Box *y*) [private]

11.32.3.65 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.32.3.66 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Z_Box *y*) [private]

11.32.3.67 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.32.3.68 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Uint64_Box *y*) [private]

11.32.3.69 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.32.3.70 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Uint32_Box *y*) [private]

11.32.3.71 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.32.3.72 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Uint16_Box *y*) [private]

11.32.3.73 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.32.3.74 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Uint8_Box *y*) [private]

11.32.3.75 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.32.3.76 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Int64_Box *y*) [private]

11.32.3.77 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.32.3.78 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Int32_Box *y*) [private]

11.32.3.79 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.32.3.80 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Int16_Box *y*) [private]

11.32.3.81 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.32.3.82 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Int8_Box *y*) [private]

11.32.3.83 native void parma_polyhedra_library::Int16_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.32.3.84 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Generator_System *cs*) [private]

11.32.3.85 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Congruence_System *cs*) [private]

11.32.3.86 native void parma_polyhedra_library::Int16_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Int16_Box().

11.32.3.87 native void parma_polyhedra_library::Int16_Box::CC76_widening_assign (Int16_Box *y*, By_Reference< Integer > *tp*)

11.32.3.88 native void parma_polyhedra_library::Int16_Box::concatenate_assign (Int16_Box *p*)

11.32.3.89 native Congruence_System parma_polyhedra_library::Int16_Box::congruences ()

11.32.3.90 native boolean parma_polyhedra_library::Int16_Box::constrains (Variable *var*)

11.32.3.91 native Constraint_System parma_polyhedra_library::Int16_Box::constraints ()

11.32.3.92 native boolean parma_polyhedra_library::Int16_Box::contains (Int16_Box *y*)

11.32.3.93 native boolean parma_polyhedra_library::Int16_Box::contains_integer_point ()

11.32.3.94 native void parma_polyhedra_library::Int16_Box::difference_assign (Int16_Box *p*)

11.32.3.95 native void parma_polyhedra_library::Int16_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.32.3.96 native void parma_polyhedra_library::Int16_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.32.3.97 boolean parma_polyhedra_library::Int16_Box::equals (Object *y*) `[inline]`

Definition at line 465 of file Int16_Box.java.

References equals().

11.32.3.98 native boolean parma_polyhedra_library::Int16_Box::equals (Int16_Box *p*)

Referenced by equals().

11.32.3.99 native void parma_polyhedra_library::Int16_Box::expand_space_dimension (Variable *var*, long *m*)

11.32.3.100 native long parma_polyhedra_library::Int16_Box::external_memory_in_bytes ()

11.32.3.101 native void parma_polyhedra_library::Int16_Box::finalize () `[protected]`

11.32.3.102 native void parma_polyhedra_library::Int16_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.32.3.103 native void parma_polyhedra_library::Int16_Box::free ()

11.32.3.104 native boolean parma_polyhedra_library::Int16_Box::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.32.3.105 native void parma_polyhedra_library::Int16_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.32.3.106 native void parma_polyhedra_library::Int16_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.32.3.107 native void parma_polyhedra_library::Int16_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.32.3.108 native void parma_polyhedra_library::Int16_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.32.3.109 native void parma_polyhedra_library::Int16_Box::intersection_assign (Int16_Box *p*)

11.32.3.110 native boolean parma_polyhedra_library::Int16_Box::is_bounded ()

11.32.3.111 native boolean parma_polyhedra_library::Int16_Box::is_discrete ()

11.32.3.112 native boolean parma_polyhedra_library::Int16_Box::is_disjoint_from (Int16_Box *y*)

11.32.3.113 native boolean parma_polyhedra_library::Int16_Box::is_empty ()

11.32.3.114 native boolean parma_polyhedra_library::Int16_Box::is_topologically_closed ()

11.32.3.115 native boolean parma_polyhedra_library::Int16_Box::is_universe ()

11.32.3.116 native void parma_polyhedra_library::Int16_Box::limited_CC76_extrapolation_assign (Int16_Box *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.32.3.117 static native Pair<Int16_Box, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Int16_Box::linear_partition (Int16_Box *p*, Int16_Box *q*) `[static]`

11.32.3.118 native void parma_polyhedra_library::Int16_Box::map_space_dimensions (Partial_Function *pfunc*)

11.32.3.119 native boolean parma_polyhedra_library::Int16_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.32.3.120 native boolean parma_polyhedra_library::Int16_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.32.3.121 native boolean parma_polyhedra_library::Int16_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.32.3.122 native boolean parma_polyhedra_library::Int16_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.32.3.123 native Congruence_System parma_polyhedra_library::Int16_Box::minimized_congruences ()

11.32.3.124 native Constraint_System parma_polyhedra_library::Int16_Box::minimized_constraints ()

11.32.3.125 native boolean parma_polyhedra_library::Int16_Box::OK ()

11.32.3.126 native void parma_polyhedra_library::Int16_Box::refine_with_congruence (Congruence *c*)

11.32.3.127 native void parma_polyhedra_library::Int16_Box::refine_with_congruences (Congruence_System *c*)

11.32.3.128 native void parma_polyhedra_library::Int16_Box::refine_with_constraint (Constraint *c*)

11.32.3.129 native void parma_polyhedra_library::Int16_Box::refine_with_constraints (Constraint_System *c*)

11.32.3.130 native Poly_Con_Relation parma_polyhedra_library::Int16_Box::relation_with (Congruence *c*)

11.32.3.131 native Poly_Gen_Relation parma_polyhedra_library::Int16_Box::relation_with (Generator *c*)

11.32.3.132 native Poly_Con_Relation parma_polyhedra_library::Int16_Box::relation_with (Constraint *c*)

11.32.3.133 native void parma_polyhedra_library::Int16_Box::remove_higher_space_dimensions (long *new_dimension*)

11.32.3.134 native void parma_polyhedra_library::Int16_Box::remove_space_dimensions (Variables_Set *vars*)

11.32.3.135 native boolean parma_polyhedra_library::Int16_Box::simplify_using_context_assign (Int16_Box *p*)

11.32.3.136 native long parma_polyhedra_library::Int16_Box::space_dimension ()

11.32.3.137 native boolean parma_polyhedra_library::Int16_Box::strictly_contains (Int16_Box *y*)

11.32.3.138 native void parma_polyhedra_library::Int16_Box::swap (Int16_Box *y*)

11.32.3.139 native void parma_polyhedra_library::Int16_Box::time_elapse_assign (Int16_Box *p*)

11.32.3.140 native void parma_polyhedra_library::Int16_Box::topological_closure_assign ()

11.32.3.141 native String parma_polyhedra_library::Int16_Box::toString ()

11.32.3.142 native long parma_polyhedra_library::Int16_Box::total_memory_in_bytes ()

11.32.3.143 native void parma_polyhedra_library::Int16_Box::unconstrain_space_dimension (Variable *var*)

11.32.3.144 native void parma_polyhedra_library::Int16_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.32.3.145 native void parma_polyhedra_library::Int16_Box::upper_bound_assign (Int16_Box *p*)

11.32.3.146 native boolean parma_polyhedra_library::Int16_Box::upper_bound_assign_if_exact (Int16_Box *y*)

11.32.3.147 native void parma_polyhedra_library::Int16_Box::widening_assign (Int16_Box *y*, By_Reference< Integer > *tp*)

11.32.3.148 native void parma_polyhedra_library::Int16_Box::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

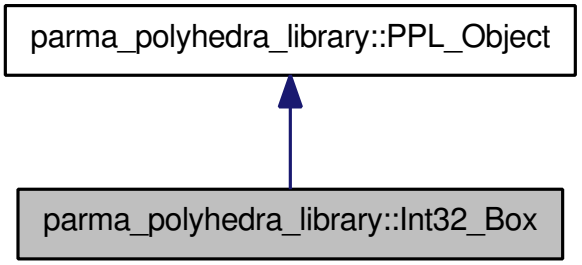
The documentation for this class was generated from the following file:

- Int16_Box.java

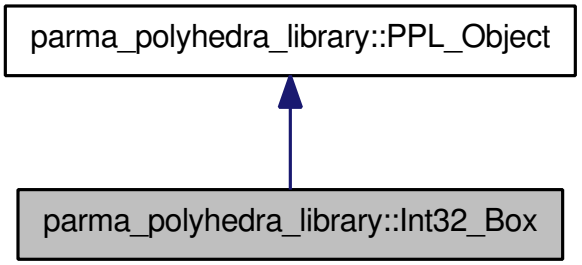
11.33 parma_polyhedra_library::Int32_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Int32_Box.

Inheritance diagram for parma_polyhedra_library::Int32_Box:



Collaboration diagram for parma_polyhedra_library::Int32_Box:



Public Member Functions

- Int32_Box (long num_dimensions, Degenerate_Element kind)
- Int32_Box (Int8_Box y)
- Int32_Box (Int16_Box y)
- Int32_Box (Int32_Box y)
- Int32_Box (Int64_Box y)
- Int32_Box (Uint8_Box y)
- Int32_Box (Uint16_Box y)
- Int32_Box (Uint32_Box y)
- Int32_Box (Uint64_Box y)
- Int32_Box (Z_Box y)
- Int32_Box (Rational_Box y)
- Int32_Box (BD_Shape_int8_t y)
- Int32_Box (BD_Shape_int16_t y)
- Int32_Box (BD_Shape_int32_t y)
- Int32_Box (BD_Shape_int64_t y)
- Int32_Box (BD_Shape_mpz_class y)
- Int32_Box (BD_Shape_mpq_class y)
- Int32_Box (Octagonal_Shape_int8_t y)
- Int32_Box (Octagonal_Shape_int16_t y)
- Int32_Box (Octagonal_Shape_int32_t y)
- Int32_Box (Octagonal_Shape_int64_t y)
- Int32_Box (Octagonal_Shape_mpz_class y)
- Int32_Box (Octagonal_Shape_mpq_class y)

- Int32_Box (C_Polyhedron y)
- Int32_Box (NNC_Polyhedron y)
- Int32_Box (Grid y)
- Int32_Box (Float_Box y)
- Int32_Box (BD_Shape_float y)
- Int32_Box (Octagonal_Shape_float y)
- Int32_Box (Double_Box y)
- Int32_Box (BD_Shape_double y)
- Int32_Box (Octagonal_Shape_double y)
- Int32_Box (Long_Double_Box y)
- Int32_Box (BD_Shape_long_double y)
- Int32_Box (Octagonal_Shape_long_double y)
- Int32_Box (Int8_Box y, Complexity_Class complexity)
- Int32_Box (Int16_Box y, Complexity_Class complexity)
- Int32_Box (Int32_Box y, Complexity_Class complexity)
- Int32_Box (Int64_Box y, Complexity_Class complexity)
- Int32_Box (Uint8_Box y, Complexity_Class complexity)
- Int32_Box (Uint16_Box y, Complexity_Class complexity)
- Int32_Box (Uint32_Box y, Complexity_Class complexity)
- Int32_Box (Uint64_Box y, Complexity_Class complexity)
- Int32_Box (Z_Box y, Complexity_Class complexity)
- Int32_Box (Rational_Box y, Complexity_Class complexity)
- Int32_Box (BD_Shape_int8_t y, Complexity_Class complexity)
- Int32_Box (BD_Shape_int16_t y, Complexity_Class complexity)
- Int32_Box (BD_Shape_int32_t y, Complexity_Class complexity)
- Int32_Box (BD_Shape_int64_t y, Complexity_Class complexity)
- Int32_Box (BD_Shape_mpz_class y, Complexity_Class complexity)
- Int32_Box (BD_Shape_mpq_class y, Complexity_Class complexity)
- Int32_Box (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Int32_Box (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Int32_Box (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Int32_Box (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Int32_Box (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Int32_Box (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Int32_Box (C_Polyhedron y, Complexity_Class complexity)
- Int32_Box (NNC_Polyhedron y, Complexity_Class complexity)
- Int32_Box (Grid y, Complexity_Class complexity)
- Int32_Box (Float_Box y, Complexity_Class complexity)
- Int32_Box (BD_Shape_float y, Complexity_Class complexity)
- Int32_Box (Octagonal_Shape_float y, Complexity_Class complexity)
- Int32_Box (Double_Box y, Complexity_Class complexity)
- Int32_Box (BD_Shape_double y, Complexity_Class complexity)
- Int32_Box (Octagonal_Shape_double y, Complexity_Class complexity)
- Int32_Box (Long_Double_Box y, Complexity_Class complexity)
- Int32_Box (BD_Shape_long_double y, Complexity_Class complexity)
- Int32_Box (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Int32_Box (Constraint_System cs)
- Int32_Box (Congruence_System cs)
- Int32_Box (Generator_System cs)
- native void swap (Int32_Box y)

- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Int32_Box y)
- native boolean strictly_contains (Int32_Box y)
- native boolean is_disjoint_from (Int32_Box y)
- native boolean equals (Int32_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Int32_Box p)
- native void upper_bound_assign (Int32_Box p)
- native void difference_assign (Int32_Box p)
- native void concatenate_assign (Int32_Box p)
- native void time_elapse_assign (Int32_Box p)
- native boolean upper_bound_assign_if_exact (Int32_Box y)
- native boolean simplify_using_context_assign (Int32_Box p)
- native boolean constrains (Variable var)

- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void CC76_widening_assign (Int32_Box y, By_Reference< Integer > tp)
- native void widening_assign (Int32_Box y, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Int32_Box y, Constraint_System cs, By_Reference< Integer > tp)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native String toString ()

Static Public Member Functions

- static native Pair< Int32_Box, Pointset_Powerset_NNC_Polyhedron > linear_partition (Int32_Box p, Int32_Box q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Int32_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)

- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.33.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Int32_Box.

Definition at line 33 of file Int32_Box.java.

11.33.2 Constructor & Destructor Documentation

11.33.2.1 parma_polyhedra_library::Int32_Box::Int32_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Int32_Box.java.

References build_cpp_object().

11.33.2.2 parma_polyhedra_library::Int32_Box::Int32_Box () [inline, private]

Definition at line 45 of file Int32_Box.java.

11.33.2.3 parma_polyhedra_library::Int32_Box::Int32_Box (Int8_Box *y*) [inline]

Definition at line 52 of file Int32_Box.java.

References build_cpp_object().

11.33.2.4 parma_polyhedra_library::Int32_Box::Int32_Box (Int16_Box *y*) [inline]

Definition at line 56 of file Int32_Box.java.

References build_cpp_object().

11.33.2.5 parma_polyhedra_library::Int32_Box::Int32_Box (Int32_Box *y*) [inline]

Definition at line 60 of file Int32_Box.java.

References build_cpp_object().

11.33.2.6 parma_polyhedra_library::Int32_Box::Int32_Box (Int64_Box *y*) [inline]

Definition at line 64 of file Int32_Box.java.

References build_cpp_object().

11.33.2.7 parma_polyhedra_library::Int32_Box::Int32_Box (Uint8_Box *y*) [inline]

Definition at line 68 of file Int32_Box.java.

References build_cpp_object().

11.33.2.8 parma_polyhedra_library::Int32_Box::Int32_Box (Uint16_Box *y*) [inline]

Definition at line 72 of file Int32_Box.java.

References build_cpp_object().

11.33.2.9 parma_polyhedra_library::Int32_Box::Int32_Box (Uint32_Box *y*) [inline]

Definition at line 76 of file Int32_Box.java.

References build_cpp_object().

11.33.2.10 parma_polyhedra_library::Int32_Box::Int32_Box (Uint64_Box *y*) [inline]

Definition at line 80 of file Int32_Box.java.

References build_cpp_object().

11.33.2.11 parma_polyhedra_library::Int32_Box::Int32_Box (Z_Box *y*) [inline]

Definition at line 84 of file Int32_Box.java.

References build_cpp_object().

11.33.2.12 parma_polyhedra_library::Int32_Box::Int32_Box (Rational_Box *y*) [inline]

Definition at line 88 of file Int32_Box.java.

References build_cpp_object().

11.33.2.13 parma_polyhedra_library::Int32_Box::Int32_Box (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Int32_Box.java.

References build_cpp_object().

11.33.2.14 parma_polyhedra_library::Int32_Box::Int32_Box (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Int32_Box.java.

References build_cpp_object().

11.33.2.15 parma_polyhedra_library::Int32_Box::Int32_Box (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Int32_Box.java.

References build_cpp_object().

11.33.2.16 parma_polyhedra_library::Int32_Box::Int32_Box (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Int32_Box.java.

References build_cpp_object().

11.33.2.17 parma_polyhedra_library::Int32_Box::Int32_Box (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Int32_Box.java.

References build_cpp_object().

11.33.2.18 parma_polyhedra_library::Int32_Box::Int32_Box (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Int32_Box.java.

References build_cpp_object().

11.33.2.19 parma_polyhedra_library::Int32_Box::Int32_Box (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Int32_Box.java.

References build_cpp_object().

11.33.2.20 parma_polyhedra_library::Int32_Box::Int32_Box (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Int32_Box.java.

References build_cpp_object().

11.33.2.21 parma_polyhedra_library::Int32_Box::Int32_Box (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Int32_Box.java.

References build_cpp_object().

11.33.2.22 parma_polyhedra_library::Int32_Box::Int32_Box (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Int32_Box.java.

References build_cpp_object().

11.33.2.23 parma_polyhedra_library::Int32_Box::Int32_Box (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Int32_Box.java.

References build_cpp_object().

11.33.2.24 parma_polyhedra_library::Int32_Box::Int32_Box (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Int32_Box.java.

References build_cpp_object().

11.33.2.25 parma_polyhedra_library::Int32_Box::Int32_Box (C_Polyhedron *y*) [inline]

Definition at line 140 of file Int32_Box.java.

References build_cpp_object().

11.33.2.26 parma_polyhedra_library::Int32_Box::Int32_Box (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Int32_Box.java.

References build_cpp_object().

11.33.2.27 parma_polyhedra_library::Int32_Box::Int32_Box (Grid *y*) [inline]

Definition at line 148 of file Int32_Box.java.

References build_cpp_object().

11.33.2.28 parma_polyhedra_library::Int32_Box::Int32_Box (Float_Box *y*) [inline]

Definition at line 152 of file Int32_Box.java.

References build_cpp_object().

11.33.2.29 parma_polyhedra_library::Int32_Box::Int32_Box (BD_Shape_float *y*) [inline]

Definition at line 156 of file Int32_Box.java.

References build_cpp_object().

11.33.2.30 parma_polyhedra_library::Int32_Box::Int32_Box (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Int32_Box.java.

References build_cpp_object().

11.33.2.31 parma_polyhedra_library::Int32_Box::Int32_Box (Double_Box *y*) [inline]

Definition at line 164 of file Int32_Box.java.

References build_cpp_object().

11.33.2.32 parma_polyhedra_library::Int32_Box::Int32_Box (BD_Shape_double *y*) [inline]

Definition at line 168 of file Int32_Box.java.

References build_cpp_object().

11.33.2.33 parma_polyhedra_library::Int32_Box::Int32_Box (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Int32_Box.java.

References build_cpp_object().

11.33.2.34 parma_polyhedra_library::Int32_Box::Int32_Box (Long_Double_Box *y*) [inline]

Definition at line 176 of file Int32_Box.java.

References build_cpp_object().

11.33.2.35 parma_polyhedra_library::Int32_Box::Int32_Box (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Int32_Box.java.

References build_cpp_object().

11.33.2.36 parma_polyhedra_library::Int32_Box::Int32_Box (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Int32_Box.java.

References build_cpp_object().

11.33.2.37 parma_polyhedra_library::Int32_Box::Int32_Box (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Int32_Box.java.

References build_cpp_object().

11.33.2.38 parma_polyhedra_library::Int32_Box::Int32_Box (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Int32_Box.java.

References build_cpp_object().

11.33.2.39 parma_polyhedra_library::Int32_Box::Int32_Box (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Int32_Box.java.

References build_cpp_object().

11.33.2.40 parma_polyhedra_library::Int32_Box::Int32_Box (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Int32_Box.java.

References build_cpp_object().

11.33.2.41 parma_polyhedra_library::Int32_Box::Int32_Box (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Int32_Box.java.

References build_cpp_object().

11.33.2.42 parma_polyhedra_library::Int32_Box::Int32_Box (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Int32_Box.java.

References build_cpp_object().

11.33.2.43 parma_polyhedra_library::Int32_Box::Int32_Box (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Int32_Box.java.

References build_cpp_object().

11.33.2.44 parma_polyhedra_library::Int32_Box::Int32_Box (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Int32_Box.java.

References build_cpp_object().

11.33.2.45 parma_polyhedra_library::Int32_Box::Int32_Box (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Int32_Box.java.

References build_cpp_object().

11.33.2.46 parma_polyhedra_library::Int32_Box::Int32_Box (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Int32_Box.java.

References build_cpp_object().

11.33.2.47 parma_polyhedra_library::Int32_Box::Int32_Box (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Int32_Box.java.

References build_cpp_object().

11.33.2.48 parma_polyhedra_library::Int32_Box::Int32_Box (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Int32_Box.java.

References build_cpp_object().

11.33.2.49 parma_polyhedra_library::Int32_Box::Int32_Box (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Int32_Box.java.

References build_cpp_object().

11.33.2.50 parma_polyhedra_library::Int32_Box::Int32_Box (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Int32_Box.java.

References build_cpp_object().

11.33.2.51 parma_polyhedra_library::Int32_Box::Int32_Box (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Int32_Box.java.

References build_cpp_object().

11.33.2.52 parma_polyhedra_library::Int32_Box::Int32_Box (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Int32_Box.java.

References build_cpp_object().

11.33.2.53 parma_polyhedra_library::Int32_Box::Int32_Box (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Int32_Box.java.

References build_cpp_object().

11.33.2.54 parma_polyhedra_library::Int32_Box::Int32_Box (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Int32_Box.java.

References build_cpp_object().

11.33.2.55 parma_polyhedra_library::Int32_Box::Int32_Box (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Int32_Box.java.

References build_cpp_object().

11.33.2.56 parma_polyhedra_library::Int32_Box::Int32_Box (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Int32_Box.java.

References build_cpp_object().

11.33.2.57 parma_polyhedra_library::Int32_Box::Int32_Box (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Int32_Box.java.

References build_cpp_object().

11.33.2.58 parma_polyhedra_library::Int32_Box::Int32_Box (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Int32_Box.java.

References build_cpp_object().

11.33.2.59 parma_polyhedra_library::Int32_Box::Int32_Box (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Int32_Box.java.

References build_cpp_object().

11.33.2.60 parma_polyhedra_library::Int32_Box::Int32_Box (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Int32_Box.java.

References build_cpp_object().

11.33.2.61 parma_polyhedra_library::Int32_Box::Int32_Box (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Int32_Box.java.

References build_cpp_object().

11.33.2.62 parma_polyhedra_library::Int32_Box::Int32_Box (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Int32_Box.java.

References build_cpp_object().

11.33.2.63 parma_polyhedra_library::Int32_Box::Int32_Box (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Int32_Box.java.

References build_cpp_object().

11.33.2.64 parma_polyhedra_library::Int32_Box::Int32_Box (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Int32_Box.java.

References build_cpp_object().

11.33.2.65 parma_polyhedra_library::Int32_Box::Int32_Box (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Int32_Box.java.

References build_cpp_object().

11.33.2.66 parma_polyhedra_library::Int32_Box::Int32_Box (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Int32_Box.java.

References build_cpp_object().

11.33.2.67 parma_polyhedra_library::Int32_Box::Int32_Box (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Int32_Box.java.

References build_cpp_object().

11.33.2.68 parma_polyhedra_library::Int32_Box::Int32_Box (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Int32_Box.java.

References build_cpp_object().

11.33.2.69 parma_polyhedra_library::Int32_Box::Int32_Box (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Int32_Box.java.

References build_cpp_object().

11.33.2.70 parma_polyhedra_library::Int32_Box::Int32_Box (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Int32_Box.java.

References build_cpp_object().

11.33.2.71 parma_polyhedra_library::Int32_Box::Int32_Box (Constraint_System *cs*) [inline]

Definition at line 334 of file Int32_Box.java.

References build_cpp_object().

11.33.2.72 parma_polyhedra_library::Int32_Box::Int32_Box (Congruence_System *cs*) [inline]

Definition at line 338 of file Int32_Box.java.

References build_cpp_object().

11.33.2.73 parma_polyhedra_library::Int32_Box::Int32_Box (Generator_System *cs*) [inline]

Definition at line 342 of file Int32_Box.java.

References build_cpp_object().

11.33.3 Member Function Documentation

11.33.3.1 native void parma_polyhedra_library::Int32_Box::add_congruence (Congruence *c*)

11.33.3.2 native void parma_polyhedra_library::Int32_Box::add_congruences (Congruence_System *c*)

11.33.3.3 native void parma_polyhedra_library::Int32_Box::add_constraint (Constraint *c*)

11.33.3.4 native void parma_polyhedra_library::Int32_Box::add_constraints (Constraint_System *c*)

11.33.3.5 native void parma_polyhedra_library::Int32_Box::add_space_dimensions_and_embed (long *m*)

11.33.3.6 native void parma_polyhedra_library::Int32_Box::add_space_dimensions_and_project (long *m*)

11.33.3.7 native long parma_polyhedra_library::Int32_Box::affine_dimension ()

11.33.3.8 native void parma_polyhedra_library::Int32_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.33.3.9 native void parma_polyhedra_library::Int32_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.33.3.10 native String parma_polyhedra_library::Int32_Box::ascii_dump ()

11.33.3.11 native void parma_polyhedra_library::Int32_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.33.3.12 native void parma_polyhedra_library::Int32_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.33.3.13 native boolean parma_polyhedra_library::Int32_Box::bounds_from_above (Linear_Expression *expr*)

11.33.3.14 native boolean parma_polyhedra_library::Int32_Box::bounds_from_below (Linear_Expression *expr*)

11.33.3.15 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.33.3.16 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.33.3.17 native void parma_polyhedra_library::Int32_Box::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.33.3.18 native void parma_polyhedra_library::Int32_Box::build_cpp_object (BD_Shape_long_double *y*) `[private]`

11.33.3.19 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) `[private]`

11.33.3.20 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Long_Double_Box *y*) [private]

11.33.3.21 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.33.3.22 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.33.3.23 native void parma_polyhedra_library::Int32_Box::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.33.3.24 native void parma_polyhedra_library::Int32_Box::build_cpp_object (BD_Shape_double *y*) [private]

11.33.3.25 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.33.3.26 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Double_Box *y*) [private]

11.33.3.27 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.33.3.28 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.33.3.29 native void parma_polyhedra_library::Int32_Box::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.33.3.30 native void parma_polyhedra_library::Int32_Box::build_cpp_object (BD_Shape_float *y*) [private]

11.33.3.31 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.33.3.32 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Float_Box *y*) [private]

11.33.3.33 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.33.3.34 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Grid *y*) [private]

11.33.3.35 native void parma_polyhedra_library::Int32_Box::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.33.3.36 native void parma_polyhedra_library::Int32_Box::build_cpp_object (NNC_Polyhedron *y*) [private]

11.33.3.37 native void parma_polyhedra_library::Int32_Box::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.33.3.38 native void parma_polyhedra_library::Int32_Box::build_cpp_object (C_Polyhedron *y*) [private]

11.33.3.39 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.33.3.40 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.33.3.41 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.33.3.42 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.33.3.43 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.33.3.44 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.33.3.45 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.33.3.46 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.33.3.47 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.33.3.48 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.33.3.49 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.33.3.50 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.33.3.51 native void parma_polyhedra_library::Int32_Box::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.33.3.52 native void parma_polyhedra_library::Int32_Box::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.33.3.53 native void parma_polyhedra_library::Int32_Box::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.33.3.54 native void parma_polyhedra_library::Int32_Box::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.33.3.55 native void parma_polyhedra_library::Int32_Box::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.33.3.56 native void parma_polyhedra_library::Int32_Box::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.33.3.57 native void parma_polyhedra_library::Int32_Box::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.33.3.58 native void parma_polyhedra_library::Int32_Box::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.33.3.59 native void parma_polyhedra_library::Int32_Box::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.33.3.60 native void parma_polyhedra_library::Int32_Box::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.33.3.61 native void parma_polyhedra_library::Int32_Box::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.33.3.62 native void parma_polyhedra_library::Int32_Box::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.33.3.63 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.33.3.64 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Rational_Box *y*) [private]

11.33.3.65 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.33.3.66 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Z_Box *y*) [private]

11.33.3.67 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.33.3.68 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Uint64_Box *y*) [private]

11.33.3.69 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.33.3.70 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Uint32_Box *y*) [private]

11.33.3.71 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.33.3.72 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Uint16_Box *y*) [private]

11.33.3.73 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.33.3.74 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Uint8_Box *y*) [private]

11.33.3.75 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.33.3.76 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Int64_Box *y*) [private]

11.33.3.77 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.33.3.78 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Int32_Box *y*) [private]

11.33.3.79 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.33.3.80 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Int16_Box *y*) [private]

11.33.3.81 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.33.3.82 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Int8_Box *y*) [private]

11.33.3.83 native void parma_polyhedra_library::Int32_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.33.3.84 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Generator_System *cs*) [private]

11.33.3.85 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Congruence_System *cs*) [private]

11.33.3.86 native void parma_polyhedra_library::Int32_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Int32_Box().

11.33.3.87 native void parma_polyhedra_library::Int32_Box::CC76_widening_assign (Int32_Box *y*, By_Reference< Integer > *tp*)

11.33.3.88 native void parma_polyhedra_library::Int32_Box::concatenate_assign (Int32_Box *p*)

11.33.3.89 native Congruence_System parma_polyhedra_library::Int32_Box::congruences ()

11.33.3.90 native boolean parma_polyhedra_library::Int32_Box::constrains (Variable *var*)

11.33.3.91 native Constraint_System parma_polyhedra_library::Int32_Box::constraints ()

11.33.3.92 native boolean parma_polyhedra_library::Int32_Box::contains (Int32_Box *y*)

11.33.3.93 native boolean parma_polyhedra_library::Int32_Box::contains_integer_point ()

11.33.3.94 native void parma_polyhedra_library::Int32_Box::difference_assign (Int32_Box *p*)

11.33.3.95 native void parma_polyhedra_library::Int32_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.33.3.96 native void parma_polyhedra_library::Int32_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.33.3.97 boolean parma_polyhedra_library::Int32_Box::equals (Object *y*) `[inline]`

Definition at line 465 of file Int32_Box.java.

References equals().

11.33.3.98 native boolean parma_polyhedra_library::Int32_Box::equals (Int32_Box *p*)

Referenced by equals().

11.33.3.99 native void parma_polyhedra_library::Int32_Box::expand_space_dimension (Variable *var*, long *m*)

11.33.3.100 native long parma_polyhedra_library::Int32_Box::external_memory_in_bytes ()

11.33.3.101 native void parma_polyhedra_library::Int32_Box::finalize () `[protected]`

11.33.3.102 native void parma_polyhedra_library::Int32_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.33.3.103 native void parma_polyhedra_library::Int32_Box::free ()

11.33.3.104 native boolean parma_polyhedra_library::Int32_Box::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.33.3.105 native void parma_polyhedra_library::Int32_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.33.3.106 native void parma_polyhedra_library::Int32_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.33.3.107 native void parma_polyhedra_library::Int32_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.33.3.108 native void parma_polyhedra_library::Int32_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.33.3.109 native void parma_polyhedra_library::Int32_Box::intersection_assign (Int32_Box *p*)

11.33.3.110 native boolean parma_polyhedra_library::Int32_Box::is_bounded ()

11.33.3.111 native boolean parma_polyhedra_library::Int32_Box::is_discrete ()

11.33.3.112 native boolean parma_polyhedra_library::Int32_Box::is_disjoint_from (Int32_Box *y*)

11.33.3.113 native boolean parma_polyhedra_library::Int32_Box::is_empty ()

11.33.3.114 native boolean parma_polyhedra_library::Int32_Box::is_topologically_closed ()

11.33.3.115 native boolean parma_polyhedra_library::Int32_Box::is_universe ()

11.33.3.116 native void parma_polyhedra_library::Int32_Box::limited_CC76_extrapolation_assign (Int32_Box *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.33.3.117 static native Pair<Int32_Box, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Int32_Box::linear_partition (Int32_Box *p*, Int32_Box *q*) `[static]`

11.33.3.118 native void parma_polyhedra_library::Int32_Box::map_space_dimensions (Partial_Function *pfunc*)

11.33.3.119 native boolean parma_polyhedra_library::Int32_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.33.3.120 native boolean parma_polyhedra_library::Int32_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.33.3.121 native boolean parma_polyhedra_library::Int32_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.33.3.122 native boolean parma_polyhedra_library::Int32_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.33.3.123 native Congruence_System parma_polyhedra_library::Int32_Box::minimized_congruences ()

11.33.3.124 native Constraint_System parma_polyhedra_library::Int32_Box::minimized_constraints ()

11.33.3.125 native boolean parma_polyhedra_library::Int32_Box::OK ()

11.33.3.126 native void parma_polyhedra_library::Int32_Box::refine_with_congruence (Congruence *c*)

11.33.3.127 native void parma_polyhedra_library::Int32_Box::refine_with_congruences (Congruence_System *c*)

11.33.3.128 native void parma_polyhedra_library::Int32_Box::refine_with_constraint (Constraint *c*)

11.33.3.129 native void parma_polyhedra_library::Int32_Box::refine_with_constraints (Constraint_System *c*)

11.33.3.130 native Poly_Con_Relation parma_polyhedra_library::Int32_Box::relation_with (Congruence *c*)

11.33.3.131 native Poly_Gen_Relation parma_polyhedra_library::Int32_Box::relation_with (Generator *c*)

11.33.3.132 native Poly_Con_Relation parma_polyhedra_library::Int32_Box::relation_with (Constraint *c*)

11.33.3.133 native void parma_polyhedra_library::Int32_Box::remove_higher_space_dimensions (long *new_dimension*)

11.33.3.134 native void parma_polyhedra_library::Int32_Box::remove_space_dimensions (Variables_Set *vars*)

11.33.3.135 native boolean parma_polyhedra_library::Int32_Box::simplify_using_context_assign (Int32_Box *p*)

11.33.3.136 native long parma_polyhedra_library::Int32_Box::space_dimension ()

11.33.3.137 native boolean parma_polyhedra_library::Int32_Box::strictly_contains (Int32_Box *y*)

11.33.3.138 native void parma_polyhedra_library::Int32_Box::swap (Int32_Box *y*)

11.33.3.139 native void parma_polyhedra_library::Int32_Box::time_elapse_assign (Int32_Box *p*)

11.33.3.140 native void parma_polyhedra_library::Int32_Box::topological_closure_assign ()

11.33.3.141 native String parma_polyhedra_library::Int32_Box::toString ()

11.33.3.142 native long parma_polyhedra_library::Int32_Box::total_memory_in_bytes ()

11.33.3.143 native void parma_polyhedra_library::Int32_Box::unconstrain_space_dimension (Variable *var*)

11.33.3.144 native void parma_polyhedra_library::Int32_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.33.3.145 native void parma_polyhedra_library::Int32_Box::upper_bound_assign (Int32_Box *p*)

11.33.3.146 native boolean parma_polyhedra_library::Int32_Box::upper_bound_assign_if_exact (Int32_Box *y*)

11.33.3.147 native void parma_polyhedra_library::Int32_Box::widening_assign (Int32_Box *y*, By_Reference< Integer > *tp*)

11.33.3.148 native void parma_polyhedra_library::Int32_Box::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

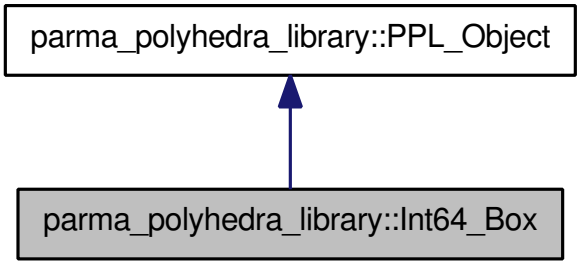
The documentation for this class was generated from the following file:

- Int32_Box.java

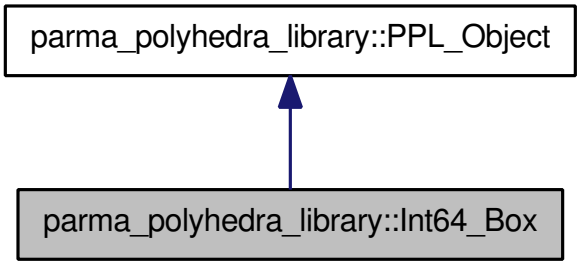
11.34 parma_polyhedra_library::Int64_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Int64_Box.

Inheritance diagram for parma_polyhedra_library::Int64_Box:



Collaboration diagram for parma_polyhedra_library::Int64_Box:



Public Member Functions

- Int64_Box (long num_dimensions, Degenerate_Element kind)
- Int64_Box (Int8_Box y)
- Int64_Box (Int16_Box y)
- Int64_Box (Int32_Box y)
- Int64_Box (Int64_Box y)
- Int64_Box (Uint8_Box y)
- Int64_Box (Uint16_Box y)
- Int64_Box (Uint32_Box y)
- Int64_Box (Uint64_Box y)
- Int64_Box (Z_Box y)
- Int64_Box (Rational_Box y)
- Int64_Box (BD_Shape_int8_t y)
- Int64_Box (BD_Shape_int16_t y)
- Int64_Box (BD_Shape_int32_t y)
- Int64_Box (BD_Shape_int64_t y)
- Int64_Box (BD_Shape_mpz_class y)
- Int64_Box (BD_Shape_mpq_class y)
- Int64_Box (Octagonal_Shape_int8_t y)
- Int64_Box (Octagonal_Shape_int16_t y)
- Int64_Box (Octagonal_Shape_int32_t y)
- Int64_Box (Octagonal_Shape_int64_t y)
- Int64_Box (Octagonal_Shape_mpz_class y)
- Int64_Box (Octagonal_Shape_mpq_class y)

- Int64_Box (C_Polyhedron y)
- Int64_Box (NNC_Polyhedron y)
- Int64_Box (Grid y)
- Int64_Box (Float_Box y)
- Int64_Box (BD_Shape_float y)
- Int64_Box (Octagonal_Shape_float y)
- Int64_Box (Double_Box y)
- Int64_Box (BD_Shape_double y)
- Int64_Box (Octagonal_Shape_double y)
- Int64_Box (Long_Double_Box y)
- Int64_Box (BD_Shape_long_double y)
- Int64_Box (Octagonal_Shape_long_double y)
- Int64_Box (Int8_Box y, Complexity_Class complexity)
- Int64_Box (Int16_Box y, Complexity_Class complexity)
- Int64_Box (Int32_Box y, Complexity_Class complexity)
- Int64_Box (Int64_Box y, Complexity_Class complexity)
- Int64_Box (Uint8_Box y, Complexity_Class complexity)
- Int64_Box (Uint16_Box y, Complexity_Class complexity)
- Int64_Box (Uint32_Box y, Complexity_Class complexity)
- Int64_Box (Uint64_Box y, Complexity_Class complexity)
- Int64_Box (Z_Box y, Complexity_Class complexity)
- Int64_Box (Rational_Box y, Complexity_Class complexity)
- Int64_Box (BD_Shape_int8_t y, Complexity_Class complexity)
- Int64_Box (BD_Shape_int16_t y, Complexity_Class complexity)
- Int64_Box (BD_Shape_int32_t y, Complexity_Class complexity)
- Int64_Box (BD_Shape_int64_t y, Complexity_Class complexity)
- Int64_Box (BD_Shape_mpz_class y, Complexity_Class complexity)
- Int64_Box (BD_Shape_mpq_class y, Complexity_Class complexity)
- Int64_Box (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Int64_Box (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Int64_Box (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Int64_Box (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Int64_Box (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Int64_Box (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Int64_Box (C_Polyhedron y, Complexity_Class complexity)
- Int64_Box (NNC_Polyhedron y, Complexity_Class complexity)
- Int64_Box (Grid y, Complexity_Class complexity)
- Int64_Box (Float_Box y, Complexity_Class complexity)
- Int64_Box (BD_Shape_float y, Complexity_Class complexity)
- Int64_Box (Octagonal_Shape_float y, Complexity_Class complexity)
- Int64_Box (Double_Box y, Complexity_Class complexity)
- Int64_Box (BD_Shape_double y, Complexity_Class complexity)
- Int64_Box (Octagonal_Shape_double y, Complexity_Class complexity)
- Int64_Box (Long_Double_Box y, Complexity_Class complexity)
- Int64_Box (BD_Shape_long_double y, Complexity_Class complexity)
- Int64_Box (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Int64_Box (Constraint_System cs)
- Int64_Box (Congruence_System cs)
- Int64_Box (Generator_System cs)
- native void swap (Int64_Box y)

- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Int64_Box y)
- native boolean strictly_contains (Int64_Box y)
- native boolean is_disjoint_from (Int64_Box y)
- native boolean equals (Int64_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Int64_Box p)
- native void upper_bound_assign (Int64_Box p)
- native void difference_assign (Int64_Box p)
- native void concatenate_assign (Int64_Box p)
- native void time_elapse_assign (Int64_Box p)
- native boolean upper_bound_assign_if_exact (Int64_Box y)
- native boolean simplify_using_context_assign (Int64_Box p)
- native boolean constrains (Variable var)

- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void CC76_widening_assign (Int64_Box y, By_Reference< Integer > tp)
- native void widening_assign (Int64_Box y, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Int64_Box y, Constraint_System cs, By_Reference< Integer > tp)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native String toString ()

Static Public Member Functions

- static native Pair< Int64_Box, Pointset_Powerset_NNC_Polyhedron > linear_partition (Int64_Box p, Int64_Box q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Int64_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)

- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.34.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Int64_Box.

Definition at line 33 of file Int64_Box.java.

11.34.2 Constructor & Destructor Documentation

11.34.2.1 parma_polyhedra_library::Int64_Box::Int64_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Int64_Box.java.

References build_cpp_object().

11.34.2.2 parma_polyhedra_library::Int64_Box::Int64_Box () [inline, private]

Definition at line 45 of file Int64_Box.java.

11.34.2.3 parma_polyhedra_library::Int64_Box::Int64_Box (Int8_Box *y*) [inline]

Definition at line 52 of file Int64_Box.java.

References build_cpp_object().

11.34.2.4 parma_polyhedra_library::Int64_Box::Int64_Box (Int16_Box *y*) [inline]

Definition at line 56 of file Int64_Box.java.

References build_cpp_object().

11.34.2.5 parma_polyhedra_library::Int64_Box::Int64_Box (Int32_Box *y*) [inline]

Definition at line 60 of file Int64_Box.java.

References build_cpp_object().

11.34.2.6 parma_polyhedra_library::Int64_Box::Int64_Box (Int64_Box *y*) [inline]

Definition at line 64 of file Int64_Box.java.

References build_cpp_object().

11.34.2.7 parma_polyhedra_library::Int64_Box::Int64_Box (Uint8_Box *y*) [inline]

Definition at line 68 of file Int64_Box.java.

References build_cpp_object().

11.34.2.8 parma_polyhedra_library::Int64_Box::Int64_Box (Uint16_Box *y*) [inline]

Definition at line 72 of file Int64_Box.java.

References build_cpp_object().

11.34.2.9 parma_polyhedra_library::Int64_Box::Int64_Box (Uint32_Box *y*) [inline]

Definition at line 76 of file Int64_Box.java.

References build_cpp_object().

11.34.2.10 parma_polyhedra_library::Int64_Box::Int64_Box (Uint64_Box *y*) [inline]

Definition at line 80 of file Int64_Box.java.

References build_cpp_object().

11.34.2.11 parma_polyhedra_library::Int64_Box::Int64_Box (Z_Box *y*) [inline]

Definition at line 84 of file Int64_Box.java.

References build_cpp_object().

11.34.2.12 parma_polyhedra_library::Int64_Box::Int64_Box (Rational_Box *y*) [inline]

Definition at line 88 of file Int64_Box.java.

References build_cpp_object().

11.34.2.13 parma_polyhedra_library::Int64_Box::Int64_Box (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Int64_Box.java.

References build_cpp_object().

11.34.2.14 parma_polyhedra_library::Int64_Box::Int64_Box (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Int64_Box.java.

References build_cpp_object().

11.34.2.15 parma_polyhedra_library::Int64_Box::Int64_Box (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Int64_Box.java.

References build_cpp_object().

11.34.2.16 parma_polyhedra_library::Int64_Box::Int64_Box (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Int64_Box.java.

References build_cpp_object().

11.34.2.17 parma_polyhedra_library::Int64_Box::Int64_Box (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Int64_Box.java.

References build_cpp_object().

11.34.2.18 parma_polyhedra_library::Int64_Box::Int64_Box (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Int64_Box.java.

References build_cpp_object().

11.34.2.19 parma_polyhedra_library::Int64_Box::Int64_Box (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Int64_Box.java.

References build_cpp_object().

11.34.2.20 parma_polyhedra_library::Int64_Box::Int64_Box (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Int64_Box.java.

References build_cpp_object().

11.34.2.21 parma_polyhedra_library::Int64_Box::Int64_Box (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Int64_Box.java.

References build_cpp_object().

11.34.2.22 parma_polyhedra_library::Int64_Box::Int64_Box (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Int64_Box.java.

References build_cpp_object().

11.34.2.23 parma_polyhedra_library::Int64_Box::Int64_Box (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Int64_Box.java.

References build_cpp_object().

11.34.2.24 parma_polyhedra_library::Int64_Box::Int64_Box (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Int64_Box.java.

References build_cpp_object().

11.34.2.25 parma_polyhedra_library::Int64_Box::Int64_Box (C_Polyhedron *y*) [inline]

Definition at line 140 of file Int64_Box.java.

References build_cpp_object().

11.34.2.26 parma_polyhedra_library::Int64_Box::Int64_Box (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Int64_Box.java.

References build_cpp_object().

11.34.2.27 parma_polyhedra_library::Int64_Box::Int64_Box (Grid *y*) [inline]

Definition at line 148 of file Int64_Box.java.

References build_cpp_object().

11.34.2.28 parma_polyhedra_library::Int64_Box::Int64_Box (Float_Box *y*) [inline]

Definition at line 152 of file Int64_Box.java.

References build_cpp_object().

11.34.2.29 parma_polyhedra_library::Int64_Box::Int64_Box (BD_Shape_float *y*) [inline]

Definition at line 156 of file Int64_Box.java.

References build_cpp_object().

11.34.2.30 parma_polyhedra_library::Int64_Box::Int64_Box (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Int64_Box.java.

References build_cpp_object().

11.34.2.31 parma_polyhedra_library::Int64_Box::Int64_Box (Double_Box *y*) [inline]

Definition at line 164 of file Int64_Box.java.

References build_cpp_object().

11.34.2.32 parma_polyhedra_library::Int64_Box::Int64_Box (BD_Shape_double *y*) [inline]

Definition at line 168 of file Int64_Box.java.

References build_cpp_object().

11.34.2.33 parma_polyhedra_library::Int64_Box::Int64_Box (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Int64_Box.java.

References build_cpp_object().

11.34.2.34 parma_polyhedra_library::Int64_Box::Int64_Box (Long_Double_Box *y*) [inline]

Definition at line 176 of file Int64_Box.java.

References build_cpp_object().

11.34.2.35 parma_polyhedra_library::Int64_Box::Int64_Box (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Int64_Box.java.

References build_cpp_object().

11.34.2.36 parma_polyhedra_library::Int64_Box::Int64_Box (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Int64_Box.java.

References build_cpp_object().

11.34.2.37 parma_polyhedra_library::Int64_Box::Int64_Box (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Int64_Box.java.

References build_cpp_object().

11.34.2.38 parma_polyhedra_library::Int64_Box::Int64_Box (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Int64_Box.java.

References build_cpp_object().

11.34.2.39 parma_polyhedra_library::Int64_Box::Int64_Box (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Int64_Box.java.

References build_cpp_object().

11.34.2.40 parma_polyhedra_library::Int64_Box::Int64_Box (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Int64_Box.java.

References build_cpp_object().

11.34.2.41 parma_polyhedra_library::Int64_Box::Int64_Box (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Int64_Box.java.

References build_cpp_object().

11.34.2.42 parma_polyhedra_library::Int64_Box::Int64_Box (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Int64_Box.java.

References build_cpp_object().

11.34.2.43 parma_polyhedra_library::Int64_Box::Int64_Box (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Int64_Box.java.

References build_cpp_object().

11.34.2.44 parma_polyhedra_library::Int64_Box::Int64_Box (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Int64_Box.java.

References build_cpp_object().

11.34.2.45 parma_polyhedra_library::Int64_Box::Int64_Box (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Int64_Box.java.

References build_cpp_object().

11.34.2.46 parma_polyhedra_library::Int64_Box::Int64_Box (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Int64_Box.java.

References build_cpp_object().

11.34.2.47 parma_polyhedra_library::Int64_Box::Int64_Box (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Int64_Box.java.

References build_cpp_object().

11.34.2.48 parma_polyhedra_library::Int64_Box::Int64_Box (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Int64_Box.java.

References build_cpp_object().

11.34.2.49 parma_polyhedra_library::Int64_Box::Int64_Box (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Int64_Box.java.

References build_cpp_object().

11.34.2.50 parma_polyhedra_library::Int64_Box::Int64_Box (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Int64_Box.java.

References build_cpp_object().

11.34.2.51 parma_polyhedra_library::Int64_Box::Int64_Box (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Int64_Box.java.

References build_cpp_object().

11.34.2.52 parma_polyhedra_library::Int64_Box::Int64_Box (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Int64_Box.java.

References build_cpp_object().

11.34.2.53 parma_polyhedra_library::Int64_Box::Int64_Box (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Int64_Box.java.

References build_cpp_object().

11.34.2.54 parma_polyhedra_library::Int64_Box::Int64_Box (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Int64_Box.java.

References build_cpp_object().

11.34.2.55 parma_polyhedra_library::Int64_Box::Int64_Box (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Int64_Box.java.

References build_cpp_object().

11.34.2.56 parma_polyhedra_library::Int64_Box::Int64_Box (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Int64_Box.java.

References build_cpp_object().

11.34.2.57 parma_polyhedra_library::Int64_Box::Int64_Box (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Int64_Box.java.

References build_cpp_object().

11.34.2.58 parma_polyhedra_library::Int64_Box::Int64_Box (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Int64_Box.java.

References build_cpp_object().

11.34.2.59 parma_polyhedra_library::Int64_Box::Int64_Box (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Int64_Box.java.

References build_cpp_object().

11.34.2.60 parma_polyhedra_library::Int64_Box::Int64_Box (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Int64_Box.java.

References build_cpp_object().

11.34.2.61 parma_polyhedra_library::Int64_Box::Int64_Box (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Int64_Box.java.

References build_cpp_object().

11.34.2.62 parma_polyhedra_library::Int64_Box::Int64_Box (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Int64_Box.java.

References build_cpp_object().

11.34.2.63 parma_polyhedra_library::Int64_Box::Int64_Box (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Int64_Box.java.

References build_cpp_object().

11.34.2.64 parma_polyhedra_library::Int64_Box::Int64_Box (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Int64_Box.java.

References build_cpp_object().

11.34.2.65 parma_polyhedra_library::Int64_Box::Int64_Box (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Int64_Box.java.

References build_cpp_object().

11.34.2.66 parma_polyhedra_library::Int64_Box::Int64_Box (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Int64_Box.java.

References build_cpp_object().

11.34.2.67 parma_polyhedra_library::Int64_Box::Int64_Box (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Int64_Box.java.

References build_cpp_object().

11.34.2.68 parma_polyhedra_library::Int64_Box::Int64_Box (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Int64_Box.java.

References build_cpp_object().

11.34.2.69 parma_polyhedra_library::Int64_Box::Int64_Box (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Int64_Box.java.

References build_cpp_object().

11.34.2.70 parma_polyhedra_library::Int64_Box::Int64_Box (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Int64_Box.java.

References build_cpp_object().

11.34.2.71 parma_polyhedra_library::Int64_Box::Int64_Box (Constraint_System *cs*) [inline]

Definition at line 334 of file Int64_Box.java.

References build_cpp_object().

11.34.2.72 parma_polyhedra_library::Int64_Box::Int64_Box (Congruence_System *cs*) [inline]

Definition at line 338 of file Int64_Box.java.

References build_cpp_object().

11.34.2.73 parma_polyhedra_library::Int64_Box::Int64_Box (Generator_System *cs*) [inline]

Definition at line 342 of file Int64_Box.java.

References build_cpp_object().

11.34.3 Member Function Documentation

11.34.3.1 native void parma_polyhedra_library::Int64_Box::add_congruence (Congruence *c*)

11.34.3.2 native void parma_polyhedra_library::Int64_Box::add_congruences (Congruence_System *c*)

11.34.3.3 native void parma_polyhedra_library::Int64_Box::add_constraint (Constraint *c*)

11.34.3.4 native void parma_polyhedra_library::Int64_Box::add_constraints (Constraint_System *c*)

11.34.3.5 native void parma_polyhedra_library::Int64_Box::add_space_dimensions_and_embed (long *m*)

11.34.3.6 native void parma_polyhedra_library::Int64_Box::add_space_dimensions_and_project (long *m*)

11.34.3.7 native long parma_polyhedra_library::Int64_Box::affine_dimension ()

11.34.3.8 native void parma_polyhedra_library::Int64_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.34.3.9 native void parma_polyhedra_library::Int64_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.34.3.10 native String parma_polyhedra_library::Int64_Box::ascii_dump ()

11.34.3.11 native void parma_polyhedra_library::Int64_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.34.3.12 native void parma_polyhedra_library::Int64_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.34.3.13 native boolean parma_polyhedra_library::Int64_Box::bounds_from_above (Linear_Expression *expr*)

11.34.3.14 native boolean parma_polyhedra_library::Int64_Box::bounds_from_below (Linear_Expression *expr*)

11.34.3.15 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.34.3.16 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.34.3.17 native void parma_polyhedra_library::Int64_Box::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.34.3.18 native void parma_polyhedra_library::Int64_Box::build_cpp_object (BD_Shape_long_double *y*) `[private]`

11.34.3.19 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) `[private]`

11.34.3.20 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Long_Double_Box *y*) [private]

11.34.3.21 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.34.3.22 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.34.3.23 native void parma_polyhedra_library::Int64_Box::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.34.3.24 native void parma_polyhedra_library::Int64_Box::build_cpp_object (BD_Shape_double *y*) [private]

11.34.3.25 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.34.3.26 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Double_Box *y*) [private]

11.34.3.27 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.34.3.28 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.34.3.29 native void parma_polyhedra_library::Int64_Box::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.34.3.30 native void parma_polyhedra_library::Int64_Box::build_cpp_object (BD_Shape_float *y*) [private]

11.34.3.31 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.34.3.32 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Float_Box *y*) [private]

11.34.3.33 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.34.3.34 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Grid *y*) [private]

11.34.3.35 native void parma_polyhedra_library::Int64_Box::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.34.3.36 native void parma_polyhedra_library::Int64_Box::build_cpp_object (NNC_Polyhedron *y*) [private]

11.34.3.37 native void parma_polyhedra_library::Int64_Box::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.34.3.38 native void parma_polyhedra_library::Int64_Box::build_cpp_object (C_Polyhedron *y*) [private]

11.34.3.39 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.34.3.40 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.34.3.41 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.34.3.42 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.34.3.43 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.34.3.44 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.34.3.45 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.34.3.46 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.34.3.47 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.34.3.48 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.34.3.49 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.34.3.50 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.34.3.51 native void parma_polyhedra_library::Int64_Box::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.34.3.52 native void parma_polyhedra_library::Int64_Box::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.34.3.53 native void parma_polyhedra_library::Int64_Box::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.34.3.54 native void parma_polyhedra_library::Int64_Box::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.34.3.55 native void parma_polyhedra_library::Int64_Box::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.34.3.56 native void parma_polyhedra_library::Int64_Box::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.34.3.57 native void parma_polyhedra_library::Int64_Box::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.34.3.58 native void parma_polyhedra_library::Int64_Box::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.34.3.59 native void parma_polyhedra_library::Int64_Box::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.34.3.60 native void parma_polyhedra_library::Int64_Box::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.34.3.61 native void parma_polyhedra_library::Int64_Box::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.34.3.62 native void parma_polyhedra_library::Int64_Box::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.34.3.63 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.34.3.64 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Rational_Box *y*) [private]

11.34.3.65 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.34.3.66 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Z_Box *y*) [private]

11.34.3.67 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.34.3.68 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Uint64_Box *y*) [private]

11.34.3.69 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.34.3.70 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Uint32_Box *y*) [private]

11.34.3.71 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.34.3.72 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Uint16_Box *y*) [private]

11.34.3.73 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.34.3.74 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Uint8_Box *y*) [private]

11.34.3.75 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.34.3.76 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Int64_Box *y*) [private]

11.34.3.77 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.34.3.78 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Int32_Box *y*) [private]

11.34.3.79 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.34.3.80 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Int16_Box *y*) [private]

11.34.3.81 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.34.3.82 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Int8_Box *y*) [private]

11.34.3.83 native void parma_polyhedra_library::Int64_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.34.3.84 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Generator_System *cs*) [private]

11.34.3.85 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Congruence_System *cs*) [private]

11.34.3.86 native void parma_polyhedra_library::Int64_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Int64_Box().

11.34.3.87 native void parma_polyhedra_library::Int64_Box::CC76_widening_assign (Int64_Box *y*, By_Reference< Integer > *tp*)

11.34.3.88 native void parma_polyhedra_library::Int64_Box::concatenate_assign (Int64_Box *p*)

11.34.3.89 native Congruence_System parma_polyhedra_library::Int64_Box::congruences ()

11.34.3.90 native boolean parma_polyhedra_library::Int64_Box::constrains (Variable *var*)

11.34.3.91 native Constraint_System parma_polyhedra_library::Int64_Box::constraints ()

11.34.3.92 native boolean parma_polyhedra_library::Int64_Box::contains (Int64_Box *y*)

11.34.3.93 native boolean parma_polyhedra_library::Int64_Box::contains_integer_point ()

11.34.3.94 native void parma_polyhedra_library::Int64_Box::difference_assign (Int64_Box *p*)

11.34.3.95 native void parma_polyhedra_library::Int64_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.34.3.96 native void parma_polyhedra_library::Int64_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.34.3.97 boolean parma_polyhedra_library::Int64_Box::equals (Object *y*) `[inline]`

Definition at line 465 of file Int64_Box.java.

References equals().

11.34.3.98 native boolean parma_polyhedra_library::Int64_Box::equals (Int64_Box *p*)

Referenced by equals().

11.34.3.99 native void parma_polyhedra_library::Int64_Box::expand_space_dimension (Variable *var*, long *m*)

11.34.3.100 native long parma_polyhedra_library::Int64_Box::external_memory_in_bytes ()

11.34.3.101 native void parma_polyhedra_library::Int64_Box::finalize () `[protected]`

11.34.3.102 native void parma_polyhedra_library::Int64_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.34.3.103 native void parma_polyhedra_library::Int64_Box::free ()

11.34.3.104 native boolean parma_polyhedra_library::Int64_Box::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.34.3.105 native void parma_polyhedra_library::Int64_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.34.3.106 native void parma_polyhedra_library::Int64_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.34.3.107 native void parma_polyhedra_library::Int64_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.34.3.108 native void parma_polyhedra_library::Int64_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.34.3.109 native void parma_polyhedra_library::Int64_Box::intersection_assign (Int64_Box *p*)

11.34.3.110 native boolean parma_polyhedra_library::Int64_Box::is_bounded ()

11.34.3.111 native boolean parma_polyhedra_library::Int64_Box::is_discrete ()

11.34.3.112 native boolean parma_polyhedra_library::Int64_Box::is_disjoint_from (Int64_Box *y*)

11.34.3.113 native boolean parma_polyhedra_library::Int64_Box::is_empty ()

11.34.3.114 native boolean parma_polyhedra_library::Int64_Box::is_topologically_closed ()

11.34.3.115 native boolean parma_polyhedra_library::Int64_Box::is_universe ()

11.34.3.116 native void parma_polyhedra_library::Int64_Box::limited_CC76_extrapolation_assign (Int64_Box *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.34.3.117 static native Pair<Int64_Box, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Int64_Box::linear_partition (Int64_Box *p*, Int64_Box *q*) [static]

11.34.3.118 native void parma_polyhedra_library::Int64_Box::map_space_dimensions (Partial_Function *pfunc*)

11.34.3.119 native boolean parma_polyhedra_library::Int64_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.34.3.120 native boolean parma_polyhedra_library::Int64_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.34.3.121 native boolean parma_polyhedra_library::Int64_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.34.3.122 native boolean parma_polyhedra_library::Int64_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.34.3.123 native Congruence_System parma_polyhedra_library::Int64_Box::minimized_congruences ()

11.34.3.124 native Constraint_System parma_polyhedra_library::Int64_Box::minimized_constraints ()

11.34.3.125 native boolean parma_polyhedra_library::Int64_Box::OK ()

11.34.3.126 native void parma_polyhedra_library::Int64_Box::refine_with_congruence (Congruence *c*)

11.34.3.127 native void parma_polyhedra_library::Int64_Box::refine_with_congruences (Congruence_System *c*)

11.34.3.128 native void parma_polyhedra_library::Int64_Box::refine_with_constraint (Constraint *c*)

11.34.3.129 native void parma_polyhedra_library::Int64_Box::refine_with_constraints (Constraint_System *c*)

11.34.3.130 native Poly_Con_Relation parma_polyhedra_library::Int64_Box::relation_with (Congruence *c*)

11.34.3.131 native Poly_Gen_Relation parma_polyhedra_library::Int64_Box::relation_with (Generator *c*)

11.34.3.132 native Poly_Con_Relation parma_polyhedra_library::Int64_Box::relation_with (Constraint *c*)

11.34.3.133 native void parma_polyhedra_library::Int64_Box::remove_higher_space_dimensions (long *new_dimension*)

11.34.3.134 native void parma_polyhedra_library::Int64_Box::remove_space_dimensions (Variables_Set *vars*)

11.34.3.135 native boolean parma_polyhedra_library::Int64_Box::simplify_using_context_assign (Int64_Box *p*)

11.34.3.136 native long parma_polyhedra_library::Int64_Box::space_dimension ()

11.34.3.137 native boolean parma_polyhedra_library::Int64_Box::strictly_contains (Int64_Box *y*)

11.34.3.138 native void parma_polyhedra_library::Int64_Box::swap (Int64_Box *y*)

11.34.3.139 native void parma_polyhedra_library::Int64_Box::time_elapse_assign (Int64_Box *p*)

11.34.3.140 native void parma_polyhedra_library::Int64_Box::topological_closure_assign ()

11.34.3.141 native String parma_polyhedra_library::Int64_Box::toString ()

11.34.3.142 native long parma_polyhedra_library::Int64_Box::total_memory_in_bytes ()

11.34.3.143 native void parma_polyhedra_library::Int64_Box::unconstrain_space_dimension (Variable *var*)

11.34.3.144 native void parma_polyhedra_library::Int64_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.34.3.145 native void parma_polyhedra_library::Int64_Box::upper_bound_assign (Int64_Box *p*)

11.34.3.146 native boolean parma_polyhedra_library::Int64_Box::upper_bound_assign_if_exact (Int64_Box *y*)

11.34.3.147 native void parma_polyhedra_library::Int64_Box::widening_assign (Int64_Box *y*, By_Reference< Integer > *tp*)

11.34.3.148 native void parma_polyhedra_library::Int64_Box::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

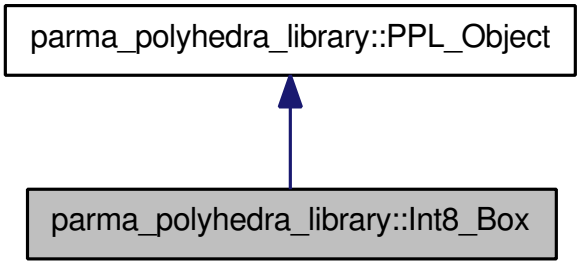
The documentation for this class was generated from the following file:

- Int64_Box.java

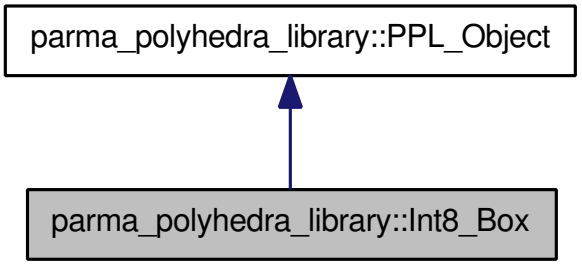
11.35 parma_polyhedra_library::Int8_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Int8_Box.

Inheritance diagram for parma_polyhedra_library::Int8_Box:



Collaboration diagram for parma_polyhedra_library::Int8_Box:



Public Member Functions

- Int8_Box (long num_dimensions, Degenerate_Element kind)
- Int8_Box (Int8_Box y)
- Int8_Box (Int16_Box y)
- Int8_Box (Int32_Box y)
- Int8_Box (Int64_Box y)
- Int8_Box (Uint8_Box y)
- Int8_Box (Uint16_Box y)
- Int8_Box (Uint32_Box y)
- Int8_Box (Uint64_Box y)
- Int8_Box (Z_Box y)
- Int8_Box (Rational_Box y)
- Int8_Box (BD_Shape_int8_t y)
- Int8_Box (BD_Shape_int16_t y)
- Int8_Box (BD_Shape_int32_t y)
- Int8_Box (BD_Shape_int64_t y)
- Int8_Box (BD_Shape_mpz_class y)
- Int8_Box (BD_Shape_mpq_class y)
- Int8_Box (Octagonal_Shape_int8_t y)
- Int8_Box (Octagonal_Shape_int16_t y)
- Int8_Box (Octagonal_Shape_int32_t y)
- Int8_Box (Octagonal_Shape_int64_t y)
- Int8_Box (Octagonal_Shape_mpz_class y)
- Int8_Box (Octagonal_Shape_mpq_class y)

- Int8_Box (C_Polyhedron y)
- Int8_Box (NNC_Polyhedron y)
- Int8_Box (Grid y)
- Int8_Box (Float_Box y)
- Int8_Box (BD_Shape_float y)
- Int8_Box (Octagonal_Shape_float y)
- Int8_Box (Double_Box y)
- Int8_Box (BD_Shape_double y)
- Int8_Box (Octagonal_Shape_double y)
- Int8_Box (Long_Double_Box y)
- Int8_Box (BD_Shape_long_double y)
- Int8_Box (Octagonal_Shape_long_double y)
- Int8_Box (Int8_Box y, Complexity_Class complexity)
- Int8_Box (Int16_Box y, Complexity_Class complexity)
- Int8_Box (Int32_Box y, Complexity_Class complexity)
- Int8_Box (Int64_Box y, Complexity_Class complexity)
- Int8_Box (Uint8_Box y, Complexity_Class complexity)
- Int8_Box (Uint16_Box y, Complexity_Class complexity)
- Int8_Box (Uint32_Box y, Complexity_Class complexity)
- Int8_Box (Uint64_Box y, Complexity_Class complexity)
- Int8_Box (Z_Box y, Complexity_Class complexity)
- Int8_Box (Rational_Box y, Complexity_Class complexity)
- Int8_Box (BD_Shape_int8_t y, Complexity_Class complexity)
- Int8_Box (BD_Shape_int16_t y, Complexity_Class complexity)
- Int8_Box (BD_Shape_int32_t y, Complexity_Class complexity)
- Int8_Box (BD_Shape_int64_t y, Complexity_Class complexity)
- Int8_Box (BD_Shape_mpz_class y, Complexity_Class complexity)
- Int8_Box (BD_Shape_mpq_class y, Complexity_Class complexity)
- Int8_Box (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Int8_Box (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Int8_Box (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Int8_Box (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Int8_Box (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Int8_Box (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Int8_Box (C_Polyhedron y, Complexity_Class complexity)
- Int8_Box (NNC_Polyhedron y, Complexity_Class complexity)
- Int8_Box (Grid y, Complexity_Class complexity)
- Int8_Box (Float_Box y, Complexity_Class complexity)
- Int8_Box (BD_Shape_float y, Complexity_Class complexity)
- Int8_Box (Octagonal_Shape_float y, Complexity_Class complexity)
- Int8_Box (Double_Box y, Complexity_Class complexity)
- Int8_Box (BD_Shape_double y, Complexity_Class complexity)
- Int8_Box (Octagonal_Shape_double y, Complexity_Class complexity)
- Int8_Box (Long_Double_Box y, Complexity_Class complexity)
- Int8_Box (BD_Shape_long_double y, Complexity_Class complexity)
- Int8_Box (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Int8_Box (Constraint_System cs)
- Int8_Box (Congruence_System cs)
- Int8_Box (Generator_System cs)
- native void swap (Int8_Box y)

- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Int8_Box y)
- native boolean strictly_contains (Int8_Box y)
- native boolean is_disjoint_from (Int8_Box y)
- native boolean equals (Int8_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Int8_Box p)
- native void upper_bound_assign (Int8_Box p)
- native void difference_assign (Int8_Box p)
- native void concatenate_assign (Int8_Box p)
- native void time_elapse_assign (Int8_Box p)
- native boolean upper_bound_assign_if_exact (Int8_Box y)
- native boolean simplify_using_context_assign (Int8_Box p)
- native boolean constrains (Variable var)

- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void CC76_widening_assign (Int8_Box y, By_Reference< Integer > tp)
- native void widening_assign (Int8_Box y, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Int8_Box y, Constraint_System cs, By_Reference< Integer > tp)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native String toString ()

Static Public Member Functions

- static native Pair< Int8_Box, Pointset_Powerset_NNC_Polyhedron > linear_partition (Int8_Box p, Int8_Box q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Int8_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)

- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.35.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Int8_Box.

Definition at line 33 of file Int8_Box.java.

11.35.2 Constructor & Destructor Documentation

11.35.2.1 parma_polyhedra_library::Int8_Box::Int8_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Int8_Box.java.

References build_cpp_object().

11.35.2.2 parma_polyhedra_library::Int8_Box::Int8_Box () [inline, private]

Definition at line 45 of file Int8_Box.java.

11.35.2.3 parma_polyhedra_library::Int8_Box::Int8_Box (Int8_Box *y*) [inline]

Definition at line 52 of file Int8_Box.java.

References build_cpp_object().

11.35.2.4 parma_polyhedra_library::Int8_Box::Int8_Box (Int16_Box *y*) [inline]

Definition at line 56 of file Int8_Box.java.

References build_cpp_object().

11.35.2.5 parma_polyhedra_library::Int8_Box::Int8_Box (Int32_Box *y*) [inline]

Definition at line 60 of file Int8_Box.java.

References build_cpp_object().

11.35.2.6 parma_polyhedra_library::Int8_Box::Int8_Box (Int64_Box *y*) [inline]

Definition at line 64 of file Int8_Box.java.

References build_cpp_object().

11.35.2.7 parma_polyhedra_library::Int8_Box::Int8_Box (Uint8_Box *y*) [inline]

Definition at line 68 of file Int8_Box.java.

References build_cpp_object().

11.35.2.8 parma_polyhedra_library::Int8_Box::Int8_Box (Uint16_Box *y*) [inline]

Definition at line 72 of file Int8_Box.java.

References build_cpp_object().

11.35.2.9 parma_polyhedra_library::Int8_Box::Int8_Box (Uint32_Box *y*) [inline]

Definition at line 76 of file Int8_Box.java.

References build_cpp_object().

11.35.2.10 parma_polyhedra_library::Int8_Box::Int8_Box (Uint64_Box *y*) [inline]

Definition at line 80 of file Int8_Box.java.

References build_cpp_object().

11.35.2.11 parma_polyhedra_library::Int8_Box::Int8_Box (Z_Box *y*) [inline]

Definition at line 84 of file Int8_Box.java.

References build_cpp_object().

11.35.2.12 parma_polyhedra_library::Int8_Box::Int8_Box (Rational_Box *y*) [inline]

Definition at line 88 of file Int8_Box.java.

References build_cpp_object().

11.35.2.13 parma_polyhedra_library::Int8_Box::Int8_Box (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Int8_Box.java.

References build_cpp_object().

11.35.2.14 parma_polyhedra_library::Int8_Box::Int8_Box (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Int8_Box.java.

References build_cpp_object().

11.35.2.15 parma_polyhedra_library::Int8_Box::Int8_Box (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Int8_Box.java.

References build_cpp_object().

11.35.2.16 parma_polyhedra_library::Int8_Box::Int8_Box (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Int8_Box.java.

References build_cpp_object().

11.35.2.17 parma_polyhedra_library::Int8_Box::Int8_Box (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Int8_Box.java.

References build_cpp_object().

11.35.2.18 parma_polyhedra_library::Int8_Box::Int8_Box (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Int8_Box.java.

References build_cpp_object().

11.35.2.19 parma_polyhedra_library::Int8_Box::Int8_Box (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Int8_Box.java.

References build_cpp_object().

11.35.2.20 parma_polyhedra_library::Int8_Box::Int8_Box (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Int8_Box.java.

References build_cpp_object().

11.35.2.21 parma_polyhedra_library::Int8_Box::Int8_Box (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Int8_Box.java.

References build_cpp_object().

11.35.2.22 parma_polyhedra_library::Int8_Box::Int8_Box (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Int8_Box.java.

References build_cpp_object().

11.35.2.23 parma_polyhedra_library::Int8_Box::Int8_Box (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Int8_Box.java.

References build_cpp_object().

11.35.2.24 parma_polyhedra_library::Int8_Box::Int8_Box (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Int8_Box.java.

References build_cpp_object().

11.35.2.25 parma_polyhedra_library::Int8_Box::Int8_Box (C_Polyhedron *y*) [inline]

Definition at line 140 of file Int8_Box.java.

References build_cpp_object().

11.35.2.26 parma_polyhedra_library::Int8_Box::Int8_Box (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Int8_Box.java.

References build_cpp_object().

11.35.2.27 parma_polyhedra_library::Int8_Box::Int8_Box (Grid *y*) [inline]

Definition at line 148 of file Int8_Box.java.

References build_cpp_object().

11.35.2.28 parma_polyhedra_library::Int8_Box::Int8_Box (Float_Box *y*) [inline]

Definition at line 152 of file Int8_Box.java.

References build_cpp_object().

11.35.2.29 parma_polyhedra_library::Int8_Box::Int8_Box (BD_Shape_float *y*) [inline]

Definition at line 156 of file Int8_Box.java.

References build_cpp_object().

11.35.2.30 parma_polyhedra_library::Int8_Box::Int8_Box (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Int8_Box.java.

References build_cpp_object().

11.35.2.31 parma_polyhedra_library::Int8_Box::Int8_Box (Double_Box *y*) [inline]

Definition at line 164 of file Int8_Box.java.

References build_cpp_object().

11.35.2.32 parma_polyhedra_library::Int8_Box::Int8_Box (BD_Shape_double *y*) [inline]

Definition at line 168 of file Int8_Box.java.

References build_cpp_object().

11.35.2.33 parma_polyhedra_library::Int8_Box::Int8_Box (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Int8_Box.java.

References build_cpp_object().

11.35.2.34 parma_polyhedra_library::Int8_Box::Int8_Box (Long_Double_Box *y*) [inline]

Definition at line 176 of file Int8_Box.java.

References build_cpp_object().

11.35.2.35 parma_polyhedra_library::Int8_Box::Int8_Box (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Int8_Box.java.

References build_cpp_object().

11.35.2.36 parma_polyhedra_library::Int8_Box::Int8_Box (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Int8_Box.java.

References build_cpp_object().

11.35.2.37 parma_polyhedra_library::Int8_Box::Int8_Box (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Int8_Box.java.

References build_cpp_object().

11.35.2.38 parma_polyhedra_library::Int8_Box::Int8_Box (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Int8_Box.java.

References build_cpp_object().

11.35.2.39 parma_polyhedra_library::Int8_Box::Int8_Box (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Int8_Box.java.

References build_cpp_object().

11.35.2.40 parma_polyhedra_library::Int8_Box::Int8_Box (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Int8_Box.java.

References build_cpp_object().

11.35.2.41 parma_polyhedra_library::Int8_Box::Int8_Box (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Int8_Box.java.

References build_cpp_object().

11.35.2.42 parma_polyhedra_library::Int8_Box::Int8_Box (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Int8_Box.java.

References build_cpp_object().

11.35.2.43 parma_polyhedra_library::Int8_Box::Int8_Box (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Int8_Box.java.

References build_cpp_object().

11.35.2.44 parma_polyhedra_library::Int8_Box::Int8_Box (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Int8_Box.java.

References build_cpp_object().

11.35.2.45 parma_polyhedra_library::Int8_Box::Int8_Box (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Int8_Box.java.

References build_cpp_object().

11.35.2.46 parma_polyhedra_library::Int8_Box::Int8_Box (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Int8_Box.java.

References build_cpp_object().

11.35.2.47 parma_polyhedra_library::Int8_Box::Int8_Box (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Int8_Box.java.

References build_cpp_object().

11.35.2.48 parma_polyhedra_library::Int8_Box::Int8_Box (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Int8_Box.java.

References build_cpp_object().

11.35.2.49 parma_polyhedra_library::Int8_Box::Int8_Box (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Int8_Box.java.

References build_cpp_object().

11.35.2.50 parma_polyhedra_library::Int8_Box::Int8_Box (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Int8_Box.java.

References build_cpp_object().

11.35.2.51 parma_polyhedra_library::Int8_Box::Int8_Box (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Int8_Box.java.

References build_cpp_object().

11.35.2.52 parma_polyhedra_library::Int8_Box::Int8_Box (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Int8_Box.java.

References build_cpp_object().

11.35.2.53 parma_polyhedra_library::Int8_Box::Int8_Box (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Int8_Box.java.

References build_cpp_object().

11.35.2.54 parma_polyhedra_library::Int8_Box::Int8_Box (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Int8_Box.java.

References build_cpp_object().

11.35.2.55 parma_polyhedra_library::Int8_Box::Int8_Box (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Int8_Box.java.

References build_cpp_object().

11.35.2.56 parma_polyhedra_library::Int8_Box::Int8_Box (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Int8_Box.java.

References build_cpp_object().

11.35.2.57 parma_polyhedra_library::Int8_Box::Int8_Box (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Int8_Box.java.

References build_cpp_object().

11.35.2.58 parma_polyhedra_library::Int8_Box::Int8_Box (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Int8_Box.java.

References build_cpp_object().

11.35.2.59 parma_polyhedra_library::Int8_Box::Int8_Box (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Int8_Box.java.

References build_cpp_object().

11.35.2.60 parma_polyhedra_library::Int8_Box::Int8_Box (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Int8_Box.java.

References build_cpp_object().

11.35.2.61 parma_polyhedra_library::Int8_Box::Int8_Box (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Int8_Box.java.

References build_cpp_object().

11.35.2.62 parma_polyhedra_library::Int8_Box::Int8_Box (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Int8_Box.java.

References build_cpp_object().

11.35.2.63 parma_polyhedra_library::Int8_Box::Int8_Box (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Int8_Box.java.

References build_cpp_object().

11.35.2.64 parma_polyhedra_library::Int8_Box::Int8_Box (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Int8_Box.java.

References build_cpp_object().

11.35.2.65 parma_polyhedra_library::Int8_Box::Int8_Box (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Int8_Box.java.

References build_cpp_object().

11.35.2.66 parma_polyhedra_library::Int8_Box::Int8_Box (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Int8_Box.java.

References build_cpp_object().

11.35.2.67 parma_polyhedra_library::Int8_Box::Int8_Box (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Int8_Box.java.

References build_cpp_object().

11.35.2.68 parma_polyhedra_library::Int8_Box::Int8_Box (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Int8_Box.java.

References build_cpp_object().

11.35.2.69 parma_polyhedra_library::Int8_Box::Int8_Box (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Int8_Box.java.

References build_cpp_object().

11.35.2.70 parma_polyhedra_library::Int8_Box::Int8_Box (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Int8_Box.java.

References build_cpp_object().

11.35.2.71 parma_polyhedra_library::Int8_Box::Int8_Box (Constraint_System *cs*) [inline]

Definition at line 334 of file Int8_Box.java.

References build_cpp_object().

11.35.2.72 parma_polyhedra_library::Int8_Box::Int8_Box (Congruence_System *cs*) [inline]

Definition at line 338 of file Int8_Box.java.

References build_cpp_object().

11.35.2.73 parma_polyhedra_library::Int8_Box::Int8_Box (Generator_System *cs*) [inline]

Definition at line 342 of file Int8_Box.java.

References build_cpp_object().

11.35.3 Member Function Documentation

11.35.3.1 native void parma_polyhedra_library::Int8_Box::add_congruence (Congruence *c*)

11.35.3.2 native void parma_polyhedra_library::Int8_Box::add_congruences (Congruence_System *c*)

11.35.3.3 native void parma_polyhedra_library::Int8_Box::add_constraint (Constraint *c*)

11.35.3.4 native void parma_polyhedra_library::Int8_Box::add_constraints (Constraint_System *c*)

11.35.3.5 native void parma_polyhedra_library::Int8_Box::add_space_dimensions_and_embed (long *m*)

11.35.3.6 native void parma_polyhedra_library::Int8_Box::add_space_dimensions_and_project (long *m*)

11.35.3.7 native long parma_polyhedra_library::Int8_Box::affine_dimension ()

11.35.3.8 native void parma_polyhedra_library::Int8_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.35.3.9 native void parma_polyhedra_library::Int8_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.35.3.10 native String parma_polyhedra_library::Int8_Box::ascii_dump ()

11.35.3.11 native void parma_polyhedra_library::Int8_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.35.3.12 native void parma_polyhedra_library::Int8_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.35.3.13 native boolean parma_polyhedra_library::Int8_Box::bounds_from_above (Linear_Expression *expr*)

11.35.3.14 native boolean parma_polyhedra_library::Int8_Box::bounds_from_below (Linear_Expression *expr*)

11.35.3.15 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.35.3.16 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.35.3.17 native void parma_polyhedra_library::Int8_Box::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.35.3.18 native void parma_polyhedra_library::Int8_Box::build_cpp_object (BD_Shape_long_double *y*) `[private]`

11.35.3.19 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) `[private]`

11.35.3.20 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Long_Double_Box *y*) [private]

11.35.3.21 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.35.3.22 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.35.3.23 native void parma_polyhedra_library::Int8_Box::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.35.3.24 native void parma_polyhedra_library::Int8_Box::build_cpp_object (BD_Shape_double *y*) [private]

11.35.3.25 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.35.3.26 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Double_Box *y*) [private]

11.35.3.27 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.35.3.28 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.35.3.29 native void parma_polyhedra_library::Int8_Box::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.35.3.30 native void parma_polyhedra_library::Int8_Box::build_cpp_object (BD_Shape_float *y*) [private]

11.35.3.31 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.35.3.32 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Float_Box *y*) [private]

11.35.3.33 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.35.3.34 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Grid *y*) [private]

11.35.3.35 native void parma_polyhedra_library::Int8_Box::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.35.3.36 native void parma_polyhedra_library::Int8_Box::build_cpp_object (NNC_Polyhedron *y*) [private]

11.35.3.37 native void parma_polyhedra_library::Int8_Box::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.35.3.38 native void parma_polyhedra_library::Int8_Box::build_cpp_object (C_Polyhedron *y*) [private]

11.35.3.39 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.35.3.40 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.35.3.41 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.35.3.42 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.35.3.43 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.35.3.44 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.35.3.45 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.35.3.46 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.35.3.47 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.35.3.48 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.35.3.49 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.35.3.50 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.35.3.51 native void parma_polyhedra_library::Int8_Box::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.35.3.52 native void parma_polyhedra_library::Int8_Box::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.35.3.53 native void parma_polyhedra_library::Int8_Box::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.35.3.54 native void parma_polyhedra_library::Int8_Box::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.35.3.55 native void parma_polyhedra_library::Int8_Box::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.35.3.56 native void parma_polyhedra_library::Int8_Box::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.35.3.57 native void parma_polyhedra_library::Int8_Box::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.35.3.58 native void parma_polyhedra_library::Int8_Box::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.35.3.59 native void parma_polyhedra_library::Int8_Box::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.35.3.60 native void parma_polyhedra_library::Int8_Box::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.35.3.61 native void parma_polyhedra_library::Int8_Box::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.35.3.62 native void parma_polyhedra_library::Int8_Box::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.35.3.63 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.35.3.64 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Rational_Box *y*) [private]

11.35.3.65 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.35.3.66 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Z_Box *y*) [private]

11.35.3.67 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.35.3.68 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Uint64_Box *y*) [private]

11.35.3.69 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.35.3.70 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Uint32_Box *y*) [private]

11.35.3.71 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.35.3.72 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Uint16_Box *y*) [private]

11.35.3.73 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.35.3.74 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Uint8_Box *y*) [private]

11.35.3.75 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.35.3.76 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Int64_Box *y*) [private]

11.35.3.77 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.35.3.78 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Int32_Box *y*) [private]

11.35.3.79 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.35.3.80 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Int16_Box *y*) [private]

11.35.3.81 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.35.3.82 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Int8_Box *y*) [private]

11.35.3.83 native void parma_polyhedra_library::Int8_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.35.3.84 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Generator_System *cs*) [private]

11.35.3.85 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Congruence_System *cs*) [private]

11.35.3.86 native void parma_polyhedra_library::Int8_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Int8_Box().

11.35.3.87 native void parma_polyhedra_library::Int8_Box::CC76_widening_assign (Int8_Box *y*, By_Reference< Integer > *tp*)

11.35.3.88 native void parma_polyhedra_library::Int8_Box::concatenate_assign (Int8_Box *p*)

11.35.3.89 native Congruence_System parma_polyhedra_library::Int8_Box::congruences ()

11.35.3.90 native boolean parma_polyhedra_library::Int8_Box::constrains (Variable *var*)

11.35.3.91 native Constraint_System parma_polyhedra_library::Int8_Box::constraints ()

11.35.3.92 native boolean parma_polyhedra_library::Int8_Box::contains (Int8_Box *y*)

11.35.3.93 native boolean parma_polyhedra_library::Int8_Box::contains_integer_point ()

11.35.3.94 native void parma_polyhedra_library::Int8_Box::difference_assign (Int8_Box *p*)

11.35.3.95 native void parma_polyhedra_library::Int8_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.35.3.96 native void parma_polyhedra_library::Int8_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.35.3.97 boolean parma_polyhedra_library::Int8_Box::equals (Object *y*) `[inline]`

Definition at line 465 of file Int8_Box.java.

References equals().

11.35.3.98 native boolean parma_polyhedra_library::Int8_Box::equals (Int8_Box *p*)

Referenced by equals().

11.35.3.99 native void parma_polyhedra_library::Int8_Box::expand_space_dimension (Variable *var*, long *m*)

11.35.3.100 native long parma_polyhedra_library::Int8_Box::external_memory_in_bytes ()

11.35.3.101 native void parma_polyhedra_library::Int8_Box::finalize () `[protected]`

11.35.3.102 native void parma_polyhedra_library::Int8_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.35.3.103 native void parma_polyhedra_library::Int8_Box::free ()

11.35.3.104 native boolean parma_polyhedra_library::Int8_Box::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.35.3.105 native void parma_polyhedra_library::Int8_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.35.3.106 native void parma_polyhedra_library::Int8_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.35.3.107 native void parma_polyhedra_library::Int8_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.35.3.108 native void parma_polyhedra_library::Int8_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.35.3.109 native void parma_polyhedra_library::Int8_Box::intersection_assign (Int8_Box *p*)

11.35.3.110 native boolean parma_polyhedra_library::Int8_Box::is_bounded ()

11.35.3.111 native boolean parma_polyhedra_library::Int8_Box::is_discrete ()

11.35.3.112 native boolean parma_polyhedra_library::Int8_Box::is_disjoint_from (Int8_Box *y*)

11.35.3.113 native boolean parma_polyhedra_library::Int8_Box::is_empty ()

11.35.3.114 native boolean parma_polyhedra_library::Int8_Box::is_topologically_closed ()

11.35.3.115 native boolean parma_polyhedra_library::Int8_Box::is_universe ()

11.35.3.116 native void parma_polyhedra_library::Int8_Box::limited_CC76_extrapolation_assign (Int8_Box *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.35.3.117 static native Pair<Int8_Box, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Int8_Box::linear_partition (Int8_Box *p*, Int8_Box *q*) `[static]`

11.35.3.118 native void parma_polyhedra_library::Int8_Box::map_space_dimensions (Partial_Function *pfunc*)

11.35.3.119 native boolean parma_polyhedra_library::Int8_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.35.3.120 native boolean parma_polyhedra_library::Int8_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.35.3.121 native boolean parma_polyhedra_library::Int8_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.35.3.122 native boolean parma_polyhedra_library::Int8_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.35.3.123 native Congruence_System parma_polyhedra_library::Int8_Box::minimized_congruences ()

11.35.3.124 native Constraint_System parma_polyhedra_library::Int8_Box::minimized_constraints ()

11.35.3.125 native boolean parma_polyhedra_library::Int8_Box::OK ()

11.35.3.126 native void parma_polyhedra_library::Int8_Box::refine_with_congruence (Congruence *c*)

11.35.3.127 native void parma_polyhedra_library::Int8_Box::refine_with_congruences (Congruence_System *c*)

11.35.3.128 native void parma_polyhedra_library::Int8_Box::refine_with_constraint (Constraint *c*)

11.35.3.129 native void parma_polyhedra_library::Int8_Box::refine_with_constraints (Constraint_System *c*)

11.35.3.130 native Poly_Con_Relation parma_polyhedra_library::Int8_Box::relation_with (Congruence *c*)

11.35.3.131 native Poly_Gen_Relation parma_polyhedra_library::Int8_Box::relation_with (Generator *c*)

11.35.3.132 native Poly_Con_Relation parma_polyhedra_library::Int8_Box::relation_with (Constraint *c*)

11.35.3.133 native void parma_polyhedra_library::Int8_Box::remove_higher_space_dimensions (long *new_dimension*)

11.35.3.134 native void parma_polyhedra_library::Int8_Box::remove_space_dimensions (Variables_Set *vars*)

11.35.3.135 native boolean parma_polyhedra_library::Int8_Box::simplify_using_context_assign (Int8_Box *p*)

11.35.3.136 native long parma_polyhedra_library::Int8_Box::space_dimension ()

11.35.3.137 native boolean parma_polyhedra_library::Int8_Box::strictly_contains (Int8_Box *y*)

11.35.3.138 native void parma_polyhedra_library::Int8_Box::swap (Int8_Box *y*)

11.35.3.139 native void parma_polyhedra_library::Int8_Box::time_elapse_assign (Int8_Box *p*)

11.35.3.140 native void parma_polyhedra_library::Int8_Box::topological_closure_assign ()

11.35.3.141 native String parma_polyhedra_library::Int8_Box::toString ()

11.35.3.142 native long parma_polyhedra_library::Int8_Box::total_memory_in_bytes ()

11.35.3.143 native void parma_polyhedra_library::Int8_Box::unconstrain_space_dimension (Variable *var*)

11.35.3.144 native void parma_polyhedra_library::Int8_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.35.3.145 native void parma_polyhedra_library::Int8_Box::upper_bound_assign (Int8_Box *p*)

11.35.3.146 native boolean parma_polyhedra_library::Int8_Box::upper_bound_assign_if_exact (Int8_Box *y*)

11.35.3.147 native void parma_polyhedra_library::Int8_Box::widening_assign (Int8_Box *y*, By_Reference< Integer > *tp*)

11.35.3.148 native void parma_polyhedra_library::Int8_Box::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

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

- Int8_Box.java

11.36 parma_polyhedra_library::Invalid_Argument_Exception Class Reference

Exceptions caused by invalid arguments.

Public Member Functions

- Invalid_Argument_Exception (String s)

  Constructor.

11.36.1 Detailed Description

Exceptions caused by invalid arguments.

Definition at line 29 of file Invalid_Argument_Exception.java.

11.36.2 Constructor & Destructor Documentation

11.36.2.1 parma_polyhedra_library::Invalid_Argument_Exception::Invalid_Argument_Exception (String *s*) [inline]

Constructor.

Definition at line 31 of file Invalid_Argument_Exception.java.

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

- Invalid_Argument_Exception.java

11.37 parma_polyhedra_library::IO Class Reference

A class collecting I/O functions.

Static Public Member Functions

- static native String wrap_string (String str, int indent_depth, int preferred_first_line_length, int preferred_line_length)

  Utility function for the wrapping of lines of text.

11.37.1 Detailed Description

A class collecting I/O functions.

Definition at line 28 of file IO.java.

11.37.2 Member Function Documentation

11.37.2.1 static native String parma_polyhedra_library::IO::wrap_string (String *str*, int *indent_depth*, int *preferred_first_line_length*, int *preferred_line_length*) [static]

Utility function for the wrapping of lines of text.

Parameters

str The source string holding the lines 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.

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

- IO.java

11.38 Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache Class Reference

A cache for global references to Java classes.

`#include <ppl_java_common.defs.hh>`

Public Member Functions

- Java_Class_Cache ()
  Default constructor.
- void init_cache (JNIEnv *env)
  Initializes all cache fields.
- void clear_cache (JNIEnv *env)
  Resets all fields to `NULL`.

Public Attributes

- jclass Boolean
- jclass Integer
- jclass Long
- jclass Iterator
- jclass Artificial_Parameter
- jclass Artificial_Parameter_Sequence
- jclass Bounded_Integer_Type_Overflow
- jclass Bounded_Integer_Type_Representation
- jclass Bounded_Integer_Type_Width
- jclass By_Reference
- jclass Coefficient
- jclass Congruence
- jclass Constraint
- jclass Generator
- jclass Grid_Generator
- jclass Generator_Type
- jclass Grid_Generator_Type
- jclass Constraint_System
- jclass Congruence_System

- jclass Generator_System
- jclass Grid_Generator_System
- jclass Linear_Expression
- jclass Linear_Expression_Coefficient
- jclass Linear_Expression_Difference
- jclass Linear_Expression_Sum
- jclass Linear_Expression_Times
- jclass Linear_Expression_Unary_Minus
- jclass Linear_Expression_Variable
- jclass MIP_Problem_Status
- jclass Optimization_Mode
- jclass Pair
- jclass PIP_Problem_Control_Parameter_Name
- jclass PIP_Problem_Control_Parameter_Value
- jclass PIP_Problem_Status
- jclass Poly_Con_Relation
- jclass Poly_Gen_Relation
- jclass PPL_Object
- jclass Relation_Symbol
- jclass Variable
- jclass Variables_Set

Private Member Functions

- void init_cache (JNIEnv *env, jclass &field, const char *name)

  Sets `field` to a global reference to Java class called `name`.

- void clear_cache (JNIEnv *env, jclass &field)

  Resets `field` to `NULL`, deleting the global reference (if any).

- Java_Class_Cache (const Java_Class_Cache &)
- Java_Class_Cache & operator= (const Java_Class_Cache &)

11.38.1 Detailed Description

A cache for global references to Java classes. The cache is loaded by `Parma_Polyhedra_Library.initialize_library();` It is cleared by `Parma_Polyhedra_Library.finalize_library().`

Definition at line 193 of file ppl_java_common.defs.hh.

11.38.2 Constructor & Destructor Documentation

11.38.2.1 Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Java_Class_Cache ()

Default constructor.

Definition at line 31 of file ppl_java_common.cc.

References Artificial_Parameter, Artificial_Parameter_Sequence, Boolean, Bounded_Integer_Type_-Overflow, Bounded_Integer_Type_Representation, Bounded_Integer_Type_Width, By_Reference, Coefficient, Congruence, Congruence_System, Constraint, Constraint_System, Generator, Generator_-System, Generator_Type, Grid_Generator, Grid_Generator_System, Grid_Generator_Type, Integer, Iterator, Linear_Expression, Linear_Expression_Coefficient, Linear_Expression_Difference, Linear_-Expression_Sum, Linear_Expression_Times, Linear_Expression_Unary_Minus, Linear_Expression_-Variable, Long, MIP_Problem_Status, Optimization_Mode, Pair, PIP_Problem_Control_Parameter_-Name, PIP_Problem_Control_Parameter_Value, PIP_Problem_Status, Poly_Con_Relation, Poly_Gen_-Relation, PPL_Object, and Relation_Symbol.

11.38.2.2 Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Java_Class_Cache (const Java_Class_Cache &) [private]

11.38.3 Member Function Documentation

11.38.3.1 void Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::clear_cache (JNIEnv * *env*, jclass & *field*) [private]

Resets `field` to `NULL`, deleting the global reference (if any).

Definition at line 157 of file ppl_java_common.cc.

11.38.3.2 void Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::clear_cache (JNIEnv * *env*)

Resets all fields to `NULL`.

Definition at line 166 of file ppl_java_common.cc.

Referenced by Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_finalize_1library().

11.38.3.3 void Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::init_cache (JNIEnv * *env*, jclass & *field*, const char * *name*) [private]

Sets `field` to a global reference to Java class called `name`.

Definition at line 77 of file ppl_java_common.cc.

11.38.3.4 void Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::init_cache (JNIEnv * *env*)

Initializes all cache fields.

Definition at line 89 of file ppl_java_common.cc.

Referenced by Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_initialize_1library().

11.38.3.5 Java_Class_Cache& Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::operator= (const Java_Class_Cache &) [private]

11.38.4 Member Data Documentation

11.38.4.1 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Artificial_Parameter

Definition at line 201 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.2 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Artificial_Parameter_Sequence

Definition at line 202 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache(), and Java_parma_1polyhedra_1library_PIP_1Tree_1Node_artificials().

11.38.4.3 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Boolean

Definition at line 196 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache(), and Java_parma_1polyhedra_1library_Coefficient_initIDs().

11.38.4.4 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Bounded_Integer_Type_Overflow

Definition at line 203 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.5 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Bounded_Integer_Type_Representation

Definition at line 204 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.6 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Bounded_Integer_Type_Width

Definition at line 205 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.7 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::By_Reference

Definition at line 206 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.8 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Coefficient

Definition at line 207 of file ppl_java_common.defs.hh.

Referenced by Parma_Polyhedra_Library::Interfaces::Java::build_java_coeff(), and Java_Class_Cache().

11.38.4.9 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Congruence

Definition at line 208 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.10 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Congruence_System

Definition at line 215 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.11 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Constraint

Definition at line 209 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.12 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Constraint_System

Definition at line 214 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache(), Java_parma_1polyhedra_1library_MIP_1Problem_constraints(), Java_parma_1polyhedra_1library_PIP_1Problem_constraints(), and Java_parma_1polyhedra_1library_-PIP_1Tree_1Node_constraints().

11.38.4.13 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Generator

Definition at line 210 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.14 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Generator_-System

Definition at line 216 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.15 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Generator_-Type

Definition at line 212 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.16 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Grid_-Generator

Definition at line 211 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.17 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Grid_-Generator_System

Definition at line 217 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.18 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Grid_-Generator_Type

Definition at line 213 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.19 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Integer

Definition at line 197 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache(), and Java_parma_1polyhedra_1library_Coefficient_initIDs().

11.38.4.20 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Iterator

Definition at line 199 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache(), and Java_parma_1polyhedra_1library_Constraint_1System_initIDs().

11.38.4.21 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Linear_Expression

Definition at line 218 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.22 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Linear_Expression_Coefficient

Definition at line 219 of file ppl_java_common.defs.hh.

Referenced by Parma_Polyhedra_Library::Interfaces::Java::build_linear_expression(), Java_Class_Cache(), and Java_parma_1polyhedra_1library_MIP_1Problem_objective_1function().

11.38.4.23 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Linear_Expression_Difference

Definition at line 220 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.24 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Linear_Expression_Sum

Definition at line 221 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.25 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Linear_-Expression_Times

Definition at line 222 of file ppl_java_common.defs.hh.

Referenced by Parma_Polyhedra_Library::Interfaces::Java::build_linear_expression(), and Java_Class_-Cache().

11.38.4.26 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Linear_-Expression_Unary_Minus

Definition at line 223 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.27 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Linear_-Expression_Variable

Definition at line 224 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.28 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Long

Definition at line 198 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache(), and Java_parma_1polyhedra_1library_Coefficient_initIDs().

11.38.4.29 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::MIP_-Problem_Status

Definition at line 225 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.30 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_-Cache::Optimization_Mode

Definition at line 226 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.31 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Pair

Definition at line 227 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.32 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::PIP_-Problem_Control_Parameter_Name

Definition at line 228 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.33 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::PIP_-Problem_Control_Parameter_Value

Definition at line 229 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.34 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::PIP_-Problem_Status

Definition at line 230 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.35 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Poly_Con_-Relation

Definition at line 231 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.36 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Poly_Gen_-Relation

Definition at line 232 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.37 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::PPL_Object

Definition at line 233 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.38 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Relation_-Symbol

Definition at line 234 of file ppl_java_common.defs.hh.

Referenced by Java_Class_Cache().

11.38.4.39 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Variable

Definition at line 235 of file ppl_java_common.defs.hh.

Referenced by Parma_Polyhedra_Library::Interfaces::Java::build_java_variable().

11.38.4.40 jclass Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Variables_Set

Definition at line 236 of file ppl_java_common.defs.hh.

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

- ppl_java_common.defs.hh
- ppl_java_common.cc

11.39 Parma_Polyhedra_Library::Interfaces::Java::Java_ExceptionOccurred Struct Reference

`#include <ppl_java_common.defs.hh>`

11.39.1 Detailed Description

Definition at line 119 of file ppl_java_common.defs.hh.

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

- ppl_java_common.defs.hh

11.40 Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache Struct Reference

A cache for field and method IDs of Java classes.

`#include <ppl_java_common.defs.hh>`

Public Attributes

- jmethodID Boolean_valueOf_ID
- jmethodID Boolean_boolValue_ID
- jmethodID Integer_valueOf_ID
- jmethodID Integer_intValue_ID
- jmethodID Long_valueOf_ID
- jmethodID Long_longValue_ID
- jfieldID Artificial_Parameter_le_ID
- jfieldID Artificial_Parameter_den_ID
- jmethodID Artificial_Parameter_init_ID
- jmethodID Artificial_Parameter_Sequence_init_ID
- jmethodID Artificial_Parameter_Sequence_add_ID
- jfieldID Bounded_Integer_Type_Overflow_OVERFLOW_WRAPS_ID
- jfieldID Bounded_Integer_Type_Overflow_OVERFLOW_UNDEFINED_ID
- jfieldID Bounded_Integer_Type_Overflow_OVERFLOW_IMPOSSIBLE_ID
- jmethodID Bounded_Integer_Type_Overflow_ordinal_ID
- jfieldID Bounded_Integer_Type_Representation_UNSIGNED_ID
- jfieldID Bounded_Integer_Type_Representation_SIGNED_2_COMPLEMENT_ID
- jmethodID Bounded_Integer_Type_Representation_ordinal_ID
- jfieldID Bounded_Integer_Type_Width_BITS_8_ID
- jfieldID Bounded_Integer_Type_Width_BITS_16_ID
- jfieldID Bounded_Integer_Type_Width_BITS_32_ID
- jfieldID Bounded_Integer_Type_Width_BITS_64_ID
- jfieldID Bounded_Integer_Type_Width_BITS_128_ID
- jmethodID Bounded_Integer_Type_Width_ordinal_ID
- jfieldID By_Reference_obj_ID
- jmethodID By_Reference_init_ID
- jfieldID Coefficient_value_ID
- jmethodID Coefficient_init_from_String_ID
- jmethodID Coefficient_toString_ID
- jmethodID Complexity_Class_ordinal_ID
- jfieldID Congruence_mod_ID
- jfieldID Congruence_lhs_ID
- jfieldID Congruence_rhs_ID
- jmethodID Congruence_init_ID
- jfieldID Constraint_lhs_ID
- jfieldID Constraint_rhs_ID
- jfieldID Constraint_kind_ID
- jmethodID Constraint_init_ID
- jmethodID Degenerate_Element_ordinal_ID
- jfieldID Generator_gt_ID
- jfieldID Generator_le_ID
- jfieldID Generator_div_ID
- jmethodID Generator_line_ID
- jmethodID Generator_ray_ID
- jmethodID Generator_point_ID
- jmethodID Generator_closure_point_ID
- jfieldID Grid_Generator_gt_ID
- jfieldID Grid_Generator_le_ID

- jfieldID Grid_Generator_div_ID
- jmethodID Grid_Generator_grid_line_ID
- jmethodID Grid_Generator_parameter_ID
- jmethodID Grid_Generator_grid_point_ID
- jmethodID Generator_Type_ordinal_ID
- jmethodID Grid_Generator_Type_ordinal_ID
- jmethodID Constraint_System_init_ID
- jmethodID Constraint_System_add_ID
- jmethodID Congruence_System_init_ID
- jmethodID Congruence_System_add_ID
- jmethodID Generator_System_init_ID
- jmethodID Generator_System_add_ID
- jmethodID Grid_Generator_System_init_ID
- jmethodID Grid_Generator_System_add_ID
- jmethodID System_iterator_ID
- jmethodID System_Iterator_has_next_ID
- jmethodID System_Iterator_next_ID
- jmethodID Linear_Expression_sum_ID
- jmethodID Linear_Expression_times_ID
- jfieldID Linear_Expression_Coefficient_coeff_ID
- jmethodID Linear_Expression_Coefficient_init_ID
- jfieldID Linear_Expression_Difference_lhs_ID
- jfieldID Linear_Expression_Difference_rhs_ID
- jfieldID Linear_Expression_Sum_lhs_ID
- jfieldID Linear_Expression_Sum_rhs_ID
- jfieldID Linear_Expression_Times_coeff_ID
- jfieldID Linear_Expression_Times_lin_expr_ID
- jmethodID Linear_Expression_Times_init_from_coeff_var_ID
- jfieldID Linear_Expression_Unary_Minus_arg_ID
- jmethodID Linear_Expression_Variable_init_ID
- jmethodID Linear_Expression_Variable_var_id_ID
- jfieldID MIP_Problem_Status_UNFEASIBLE_MIP_PROBLEM_ID
- jfieldID MIP_Problem_Status_UNBOUNDED_MIP_PROBLEM_ID
- jfieldID MIP_Problem_Status_OPTIMIZED_MIP_PROBLEM_ID
- jmethodID MIP_Problem_Status_ordinal_ID
- jfieldID Optimization_Mode_MAXIMIZATION_ID
- jfieldID Optimization_Mode_MINIMIZATION_ID
- jmethodID Optimization_Mode_ordinal_ID
- jfieldID PIP_Problem_Control_Parameter_Name_CUTTING_STRATEGY_ID
- jfieldID PIP_Problem_Control_Parameter_Name_PIVOT_ROW_STRATEGY
- jmethodID PIP_Problem_Control_Parameter_Name_ordinal_ID
- jfieldID PIP_Problem_Control_Parameter_Value_CUTTING_STRATEGY_FIRST_ID
- jfieldID PIP_Problem_Control_Parameter_Value_CUTTING_STRATEGY_DEEPEST_ID
- jfieldID PIP_Problem_Control_Parameter_Value_CUTTING_STRATEGY_ALL_ID
- jfieldID PIP_Problem_Control_Parameter_Value_PIVOT_ROW_STRATEGY_FIRST_ID
- jfieldID PIP_Problem_Control_Parameter_Value_PIVOT_ROW_STRATEGY_MAX_COLUMN_-ID
- jmethodID PIP_Problem_Control_Parameter_Value_ordinal_ID
- jfieldID PIP_Problem_Status_UNFEASIBLE_PIP_PROBLEM_ID
- jfieldID PIP_Problem_Status_OPTIMIZED_PIP_PROBLEM_ID

- jmethodID PIP_Problem_Status_ordinal_ID
- jfieldID Pair_first_ID
- jfieldID Pair_second_ID
- jmethodID Poly_Con_Relation_init_ID
- jmethodID Poly_Gen_Relation_init_ID
- jfieldID PPL_Object_ptr_ID
- jfieldID Relation_Symbol_EQUAL_ID
- jfieldID Relation_Symbol_GREATER_OR_EQUAL_ID
- jfieldID Relation_Symbol_GREATER_THAN_ID
- jmethodID Relation_Symbol_ordinal_ID
- jfieldID Variable_varid_ID
- jmethodID Variable_init_ID
- jmethodID Variables_Set_init_ID
- jmethodID Variables_Set_add_ID
- jmethodID Variables_Set_iterator_ID
- jmethodID Variables_Set_Iterator_has_next_ID
- jmethodID Variables_Set_Iterator_next_ID

11.40.1 Detailed Description

A cache for field and method IDs of Java classes. The IDs for fields and methods of PPL Java classes are automatically by the static initializer of the corresponding Java class. The static initializers of some PPL Java class also stores the IDs for fields and methods of non-PPL classes (e.g., Boolean, Long, etc.).

Definition at line 267 of file ppl_java_common.defs.hh.

11.40.2 Member Data Documentation

11.40.2.1 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Artificial_Parameter_den_ID

Definition at line 279 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Artificial_1Parameter_initIDs().

11.40.2.2 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Artificial_Parameter_init_ID

Definition at line 280 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Artificial_1Parameter_initIDs().

11.40.2.3 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Artificial_Parameter_le_ID

Definition at line 278 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Artificial_1Parameter_initIDs().

11.40.2.4 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Artificial_Parameter_Sequence_add_ID

Definition at line 282 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Artificial_1Parameter_1Sequence_initIDs(), and Java_-parma_1polyhedra_1library_PIP_1Tree_1Node_artificials().

11.40.2.5 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Artificial_Parameter_Sequence_init_ID

Definition at line 281 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Artificial_1Parameter_1Sequence_initIDs(), and Java_-parma_1polyhedra_1library_PIP_1Tree_1Node_artificials().

11.40.2.6 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Boolean_boolValue_ID

Definition at line 270 of file ppl_java_common.defs.hh.

11.40.2.7 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Boolean_valueOf_ID

Definition at line 269 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Coefficient_initIDs().

11.40.2.8 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Bounded_Integer_Type_Overflow_ordinal_ID

Definition at line 287 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_1Overflow_initIDs().

11.40.2.9 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Bounded_-Integer_Type_Overflow_OVERFLOW_IMPOSSIBLE_ID

Definition at line 286 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_1Overflow_initIDs().

11.40.2.10 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Bounded_Integer_Type_Overflow_OVERFLOW_UNDEFINED_ID

Definition at line 285 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_1Overflow_initIDs().

11.40.2.11 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Bounded_Integer_Type_Overflow_OVERFLOW_WRAPS_ID

Definition at line 284 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_1Overflow_initIDs().

11.40.2.12 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Bounded_Integer_Type_Representation_ordinal_ID

Definition at line 291 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_1Representation_initIDs().

11.40.2.13 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Bounded_Integer_Type_Representation_SIGNED_2_COMPLEMENT_ID

Definition at line 290 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_1Representation_initIDs().

11.40.2.14 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Bounded_Integer_Type_Representation_UNSIGNED_ID

Definition at line 289 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_1Representation_initIDs().

11.40.2.15 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Bounded_Integer_Type_Width_BITS_128_ID

Definition at line 297 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_1Width_initIDs().

11.40.2.16 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Bounded_-Integer_Type_Width_BITS_16_ID

Definition at line 294 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_1Width_initIDs().

11.40.2.17 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Bounded_-Integer_Type_Width_BITS_32_ID

Definition at line 295 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_1Width_initIDs().

11.40.2.18 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Bounded_-Integer_Type_Width_BITS_64_ID

Definition at line 296 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_1Width_initIDs().

11.40.2.19 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Bounded_-Integer_Type_Width_BITS_8_ID

Definition at line 293 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_1Width_initIDs().

11.40.2.20 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Bounded_Integer_Type_Width_ordinal_ID

Definition at line 298 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_1Width_initIDs().

11.40.2.21 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::By_-Reference_init_ID

Definition at line 301 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_By_1Reference_initIDs().

11.40.2.22 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::By_-Reference_obj_ID

Definition at line 300 of file ppl_java_common.defs.hh.

Referenced by Parma_Polyhedra_Library::Interfaces::Java::get_by_reference(), Java_parma_-1polyhedra_1library_By_1Reference_initIDs(), and Parma_Polyhedra_Library::Interfaces::Java::set_by_-reference().

11.40.2.23 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Coefficient_init_from_String_ID

Definition at line 304 of file ppl_java_common.defs.hh.

Referenced by Parma_Polyhedra_Library::Interfaces::Java::build_java_coeff(), and Java_parma_-1polyhedra_1library_Coefficient_initIDs().

11.40.2.24 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Coefficient_toString_ID

Definition at line 305 of file ppl_java_common.defs.hh.

Referenced by Parma_Polyhedra_Library::Interfaces::Java::build_cxx_coeff(), and Java_parma_-1polyhedra_1library_Coefficient_initIDs().

11.40.2.25 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Coefficient_value_ID

Definition at line 303 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Coefficient_initIDs(), and Parma_Polyhedra_-Library::Interfaces::Java::set_coefficient().

11.40.2.26 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Complexity_Class_ordinal_ID

Definition at line 307 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Complexity_1Class_initIDs().

11.40.2.27 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Congruence_init_ID

Definition at line 312 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Congruence_initIDs().

11.40.2.28 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Congruence_lhs_ID

Definition at line 310 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Congruence_initIDs().

11.40.2.29 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Congruence_mod_ID

Definition at line 309 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Congruence_initIDs().

11.40.2.30 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Congruence_rhs_ID

Definition at line 311 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Congruence_initIDs().

11.40.2.31 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Congruence_System_add_ID

Definition at line 342 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Congruence_1System_initIDs().

11.40.2.32 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Congruence_System_init_ID

Definition at line 341 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Congruence_1System_initIDs().

11.40.2.33 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Constraint_init_ID

Definition at line 317 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Constraint_initIDs().

11.40.2.34 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Constraint_kind_ID

Definition at line 316 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Constraint_initIDs().

11.40.2.35 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Constraint_lhs_ID

Definition at line 314 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Constraint_initIDs().

11.40.2.36 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Constraint_rhs_ID

Definition at line 315 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Constraint_initIDs().

11.40.2.37 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Constraint_System_add_ID

Definition at line 340 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Constraint_1System_initIDs(), Java_parma_-1polyhedra_1library_MIP_1Problem_constraints(), and Java_parma_1polyhedra_1library_PIP_-1Problem_constraints().

11.40.2.38 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Constraint_System_init_ID

Definition at line 339 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Constraint_1System_initIDs(), Java_parma_-1polyhedra_1library_MIP_1Problem_constraints(), Java_parma_1polyhedra_1library_PIP_1Problem_-constraints(), and Java_parma_1polyhedra_1library_PIP_1Tree_1Node_constraints().

11.40.2.39 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Degenerate_Element_ordinal_ID

Definition at line 319 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Degenerate_1Element_initIDs().

11.40.2.40 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Generator_closure_point_ID

Definition at line 327 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Generator_initIDs().

11.40.2.41 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Generator_div_ID

Definition at line 323 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Generator_initIDs().

11.40.2.42 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Generator_gt_ID

Definition at line 321 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Generator_initIDs().

11.40.2.43 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Generator_le_ID

Definition at line 322 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Generator_initIDs().

11.40.2.44 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Generator_line_ID

Definition at line 324 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Generator_initIDs().

11.40.2.45 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Generator_point_ID

Definition at line 326 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Generator_initIDs().

11.40.2.46 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Generator_ray_ID

Definition at line 325 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Generator_initIDs().

11.40.2.47 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Generator_System_add_ID

Definition at line 344 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Generator_1System_initIDs().

11.40.2.48 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Generator_System_init_ID

Definition at line 343 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Generator_1System_initIDs().

11.40.2.49 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Generator_Type_ordinal_ID

Definition at line 336 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Generator_1Type_initIDs().

11.40.2.50 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Grid_-Generator_div_ID

Definition at line 331 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Grid_1Generator_initIDs().

11.40.2.51 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Grid_-Generator_grid_line_ID

Definition at line 332 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Grid_1Generator_initIDs().

11.40.2.52 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Grid_Generator_grid_point_ID

Definition at line 334 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Grid_1Generator_initIDs().

11.40.2.53 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Grid_Generator_gt_ID

Definition at line 329 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Grid_1Generator_initIDs().

11.40.2.54 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Grid_Generator_le_ID

Definition at line 330 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Grid_1Generator_initIDs().

11.40.2.55 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Grid_Generator_parameter_ID

Definition at line 333 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Grid_1Generator_initIDs().

11.40.2.56 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Grid_Generator_System_add_ID

Definition at line 346 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Grid_1Generator_1System_initIDs().

11.40.2.57 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Grid_Generator_System_init_ID

Definition at line 345 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Grid_1Generator_1System_initIDs().

11.40.2.58 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Grid_Generator_Type_ordinal_ID

Definition at line 337 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Grid_1Generator_1Type_initIDs().

11.40.2.59 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Integer_intValue_ID

Definition at line 272 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Coefficient_initIDs().

11.40.2.60 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Integer_valueOf_ID

Definition at line 271 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Coefficient_initIDs().

11.40.2.61 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_Coefficient_coeff_ID

Definition at line 355 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Linear_1Expression_1Coefficient_initIDs().

11.40.2.62 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_Coefficient_init_ID

Definition at line 356 of file ppl_java_common.defs.hh.

Referenced by Parma_Polyhedra_Library::Interfaces::Java::build_linear_expression(), Java_parma_1polyhedra_1library_Linear_1Expression_1Coefficient_initIDs(), and Java_parma_1polyhedra_1library_MIP_1Problem_objective_1function().

11.40.2.63 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_Difference_lhs_ID

Definition at line 357 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Linear_1Expression_1Difference_initIDs().

11.40.2.64 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_-Expression_Difference_rhs_ID

Definition at line 358 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Linear_1Expression_1Difference_initIDs().

11.40.2.65 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Linear_Expression_sum_ID

Definition at line 352 of file ppl_java_common.defs.hh.

Referenced by Parma_Polyhedra_Library::Interfaces::Java::build_linear_expression(), Java_parma_-1polyhedra_1library_Linear_1Expression_initIDs(), and Java_parma_1polyhedra_1library_MIP_-1Problem_objective_1function().

11.40.2.66 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_-Expression_Sum_lhs_ID

Definition at line 359 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Linear_1Expression_1Sum_initIDs().

11.40.2.67 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_-Expression_Sum_rhs_ID

Definition at line 360 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Linear_1Expression_1Sum_initIDs().

11.40.2.68 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_-Expression_Times_coeff_ID

Definition at line 361 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Linear_1Expression_1Times_initIDs().

11.40.2.69 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Linear_Expression_times_ID

Definition at line 353 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Linear_1Expression_initIDs().

11.40.2.70 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Linear_Expression_Times_init_from_coeff_var_ID

Definition at line 363 of file ppl_java_common.defs.hh.

Referenced by Parma_Polyhedra_Library::Interfaces::Java::build_linear_expression(), and Java_parma_-1polyhedra_1library_Linear_1Expression_1Times_initIDs().

11.40.2.71 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_-Expression_Times_lin_expr_ID

Definition at line 362 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Linear_1Expression_1Times_initIDs().

11.40.2.72 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_-Expression_Unary_Minus_arg_ID

Definition at line 364 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Linear_1Expression_1Unary_1Minus_initIDs().

11.40.2.73 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Linear_Expression_Variable_init_ID

Definition at line 365 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Linear_1Expression_1Variable_initIDs().

11.40.2.74 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Linear_Expression_Variable_var_id_ID

Definition at line 366 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Linear_1Expression_1Variable_initIDs().

11.40.2.75 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Long_-longValue_ID

Definition at line 274 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Coefficient_initIDs().

11.40.2.76 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Long_-valueOf_ID

Definition at line 273 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Coefficient_initIDs().

11.40.2.77 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::MIP_-Problem_Status_OPTIMIZED_MIP_PROBLEM_ID

Definition at line 370 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_1Status_initIDs().

11.40.2.78 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::MIP_-Problem_Status_ordinal_ID

Definition at line 371 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_1Status_initIDs().

11.40.2.79 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::MIP_-Problem_Status_UNBOUNDED_MIP_PROBLEM_ID

Definition at line 369 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_1Status_initIDs().

11.40.2.80 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::MIP_-Problem_Status_UNFEASIBLE_MIP_PROBLEM_ID

Definition at line 368 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_1Status_initIDs().

11.40.2.81 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Optimization_Mode_MAXIMIZATION_ID

Definition at line 373 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Optimization_1Mode_initIDs().

11.40.2.82 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Optimization_Mode_MINIMIZATION_ID

Definition at line 374 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Optimization_1Mode_initIDs().

11.40.2.83 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Optimization_Mode_ordinal_ID

Definition at line 375 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Optimization_1Mode_initIDs().

11.40.2.84 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Pair_first_-ID

Definition at line 392 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Pair_initIDs().

11.40.2.85 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Pair_-second_ID

Definition at line 393 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Pair_initIDs().

11.40.2.86 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PIP_-Problem_Control_Parameter_Name_CUTTING_STRATEGY_ID

Definition at line 377 of file ppl_java_common.defs.hh.

11.40.2.87 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PIP_-Problem_Control_Parameter_Name_ordinal_ID

Definition at line 379 of file ppl_java_common.defs.hh.

11.40.2.88 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PIP_-Problem_Control_Parameter_Name_PIVOT_ROW_STRATEGY

Definition at line 378 of file ppl_java_common.defs.hh.

11.40.2.89 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PIP_-Problem_Control_Parameter_Value_CUTTING_STRATEGY_ALL_ID

Definition at line 383 of file ppl_java_common.defs.hh.

11.40.2.90 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PIP_-Problem_Control_Parameter_Value_CUTTING_STRATEGY_DEEPEST_ID

Definition at line 382 of file ppl_java_common.defs.hh.

11.40.2.91 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PIP_-Problem_Control_Parameter_Value_CUTTING_STRATEGY_FIRST_ID

Definition at line 381 of file ppl_java_common.defs.hh.

11.40.2.92 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PIP_-Problem_Control_Parameter_Value_ordinal_ID

Definition at line 386 of file ppl_java_common.defs.hh.

11.40.2.93 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PIP_-Problem_Control_Parameter_Value_PIVOT_ROW_STRATEGY_FIRST_ID

Definition at line 384 of file ppl_java_common.defs.hh.

11.40.2.94 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PIP_-Problem_Control_Parameter_Value_PIVOT_ROW_STRATEGY_MAX_COLUMN_-ID

Definition at line 385 of file ppl_java_common.defs.hh.

11.40.2.95 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PIP_-Problem_Status_OPTIMIZED_PIP_PROBLEM_ID

Definition at line 389 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_PIP_1Problem_1Status_initIDs().

11.40.2.96 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PIP_-Problem_Status_ordinal_ID

Definition at line 390 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_PIP_1Problem_1Status_initIDs().

11.40.2.97 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PIP_-Problem_Status_UNFEASIBLE_PIP_PROBLEM_ID

Definition at line 388 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_PIP_1Problem_1Status_initIDs().

11.40.2.98 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Poly_-Con_Relation_init_ID

Definition at line 395 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Poly_1Con_1Relation_initIDs().

11.40.2.99 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Poly_-Gen_Relation_init_ID

Definition at line 396 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Poly_1Gen_1Relation_initIDs().

11.40.2.100 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PPL_-Object_ptr_ID

Definition at line 398 of file ppl_java_common.defs.hh.

Referenced by Parma_Polyhedra_Library::Interfaces::Java::get_ptr(), Parma_Polyhedra_-Library::Interfaces::Java::is_java_marked(), Java_parma_1polyhedra_1library_PPL_1Object_initIDs(), and Parma_Polyhedra_Library::Interfaces::Java::set_ptr().

11.40.2.101 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Relation_Symbol_EQUAL_ID

Definition at line 400 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Relation_1Symbol_initIDs().

11.40.2.102 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Relation_Symbol_GREATER_OR_EQUAL_ID

Definition at line 401 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Relation_1Symbol_initIDs().

11.40.2.103 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Relation_Symbol_GREATER_THAN_ID

Definition at line 402 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Relation_1Symbol_initIDs().

11.40.2.104 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Relation_Symbol_ordinal_ID

Definition at line 403 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Relation_1Symbol_initIDs().

11.40.2.105 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::System_Iterator_has_next_ID

Definition at line 349 of file ppl_java_common.defs.hh.

Referenced by Parma_Polyhedra_Library::Interfaces::Java::build_cxx_system(), and Java_parma_-1polyhedra_1library_Constraint_1System_initIDs().

11.40.2.106 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::System_iterator_ID

Definition at line 348 of file ppl_java_common.defs.hh.

Referenced by Parma_Polyhedra_Library::Interfaces::Java::build_cxx_system(), and Java_parma_-1polyhedra_1library_Constraint_1System_initIDs().

11.40.2.107 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::System_Iterator_next_ID

Definition at line 350 of file ppl_java_common.defs.hh.

Referenced by Parma_Polyhedra_Library::Interfaces::Java::build_cxx_system(), and Java_parma_-1polyhedra_1library_Constraint_1System_initIDs().

11.40.2.108 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Variable_init_ID

Definition at line 406 of file ppl_java_common.defs.hh.

Referenced by Parma_Polyhedra_Library::Interfaces::Java::build_java_variable(), and Java_parma_-1polyhedra_1library_Variable_initIDs().

11.40.2.109 jfieldID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Variable_varid_ID

Definition at line 405 of file ppl_java_common.defs.hh.

Referenced by Parma_Polyhedra_Library::Interfaces::Java::build_cxx_variable(), and Java_parma_-1polyhedra_1library_Variable_initIDs().

11.40.2.110 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Variables_Set_add_ID

Definition at line 409 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Variables_1Set_initIDs().

11.40.2.111 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Variables_Set_init_ID

Definition at line 408 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Variables_1Set_initIDs().

11.40.2.112 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Variables_Set_Iterator_has_next_ID

Definition at line 412 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Variables_1Set_initIDs().

11.40.2.113 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Variables_Set_iterator_ID

Definition at line 410 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Variables_1Set_initIDs().

11.40.2.114 jmethodID Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Variables_Set_Iterator_next_ID

Definition at line 413 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Variables_1Set_initIDs().

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

- ppl_java_common.defs.hh

11.41 parma_polyhedra_library::Length_Error_Exception Class Reference

Exceptions caused by too big length/size values.

Public Member Functions

- Length_Error_Exception (String s)

  Constructor.

11.41.1 Detailed Description

Exceptions caused by too big length/size values.

Definition at line 28 of file Length_Error_Exception.java.

11.41.2 Constructor & Destructor Documentation

11.41.2.1 parma_polyhedra_library::Length_Error_Exception::Length_Error_Exception (String *s*) `[inline]`

Constructor.

Definition at line 30 of file Length_Error_Exception.java.

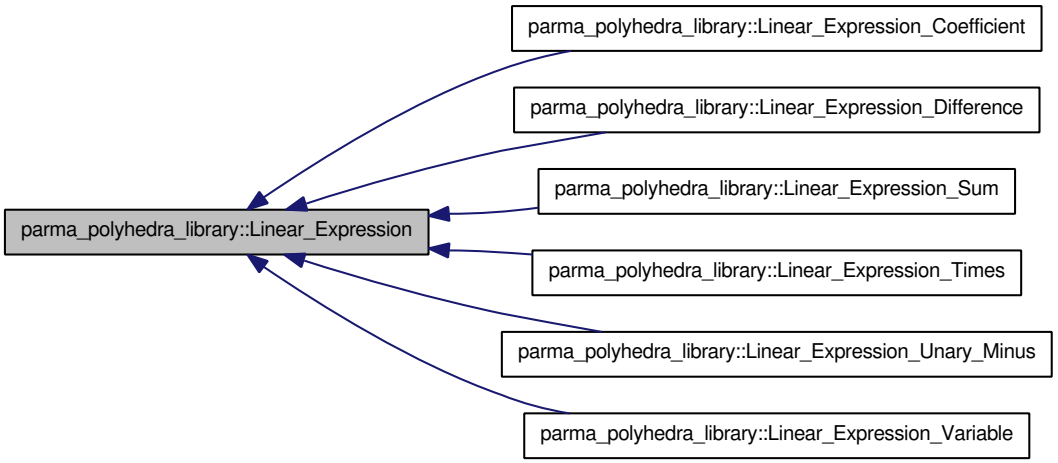
The documentation for this class was generated from the following file:

- Length_Error_Exception.java

11.42 parma_polyhedra_library::Linear_Expression Class Reference

A linear expression.

Inheritance diagram for parma_polyhedra_library::Linear_Expression:



Public Member Functions

- Linear_Expression sum (Linear_Expression y)
  Returns the sum of `this` and `y`.
- Linear_Expression subtract (Linear_Expression y)
  Returns the difference of `this` and `y`.
- Linear_Expression times (Coefficient c)
  Returns the product of `this` times `c`.
- Linear_Expression unary_minus ()
  Returns the negation of `this`.
- abstract Linear_Expression clone ()
  Returns a copy of the linear expression.
- native String ascii_dump ()
  Returns an ascii formatted internal representation of `this`.
- native String toString ()
  Returns a string representation of `this`.
- native boolean is_zero ()
  Returns `true` if and only if `*this` is 0.
- native boolean all_homogeneous_terms_are_zero ()
  Returns `true` if and only if all the homogeneous terms of `*this` are 0.

Static Package Functions

- [static initializer]

Static Private Member Functions

- static native void initIDs ()

11.42.1 Detailed Description

A linear expression. An object of the class Linear_Expression represents a linear expression that can be built from a Linear_Expression_Variable, Linear_Expression_Coefficient, Linear_Expression_Sum, Linear_Expression_Difference, Linear_Expression_Unary_Minus.

Definition at line 36 of file Linear_Expression.java.

11.42.2 Member Function Documentation

11.42.2.1 parma_polyhedra_library::Linear_Expression::[static initializer] () [inline, static, package]

Reimplemented in parma_polyhedra_library::Linear_Expression_Coefficient, parma_polyhedra_library::Linear_Expression_Difference, parma_polyhedra_library::Linear_Expression_Sum, parma_polyhedra_library::Linear_Expression_Times, parma_polyhedra_library::Linear_Expression_Unary_Minus, and parma_polyhedra_library::Linear_Expression_Variable.

11.42.2.2 native boolean parma_polyhedra_library::Linear_Expression::all_homogeneous_terms_are_zero ()

Returns `true` if and only if all the homogeneous terms of `*this` are 0.

11.42.2.3 native String parma_polyhedra_library::Linear_Expression::ascii_dump ()

Returns an ascii formatted internal representation of `this`.

11.42.2.4 abstract Linear_Expression parma_polyhedra_library::Linear_Expression::clone () [pure virtual]

Returns a copy of the linear expression.

Implemented in parma_polyhedra_library::Linear_Expression_Coefficient, parma_polyhedra_library::Linear_Expression_Difference, parma_polyhedra_library::Linear_Expression_Sum, parma_polyhedra_library::Linear_Expression_Times, parma_polyhedra_library::Linear_Expression_Unary_Minus, and parma_polyhedra_library::Linear_Expression_Variable.

Referenced by parma_polyhedra_library::Artificial_Parameter::Artificial_Parameter(), parma_polyhedra_library::Congruence::Congruence(), parma_polyhedra_library::Constraint::Constraint(), parma_polyhedra_library::Generator::Generator(), parma_polyhedra_library::Grid_Generator::Grid_Generator(), parma_polyhedra_library::Linear_Expression_Difference::Linear_Expression_Difference(),

parma_polyhedra_library::Linear_Expression_Sum::Linear_Expression_Sum(), parma_polyhedra_library::Linear_Expression_Times::Linear_Expression_Times(), and parma_polyhedra_library::Linear_Expression_Unary_Minus::Linear_Expression_Unary_Minus().

11.42.2.5 static native void parma_polyhedra_library::Linear_Expression::initIDs () [static, private]

Reimplemented in parma_polyhedra_library::Linear_Expression_Coefficient, parma_polyhedra_library::Linear_Expression_Difference, parma_polyhedra_library::Linear_Expression_Sum, parma_polyhedra_library::Linear_Expression_Times, parma_polyhedra_library::Linear_Expression_Unary_Minus, and parma_polyhedra_library::Linear_Expression_Variable.

11.42.2.6 native boolean parma_polyhedra_library::Linear_Expression::is_zero ()

Returns `true` if and only if `*this` is 0.

11.42.2.7 Linear_Expression parma_polyhedra_library::Linear_Expression::subtract (Linear_Expression *y*) [inline]

Returns the difference of `this` and `y`.

Definition at line 44 of file Linear_Expression.java.

11.42.2.8 Linear_Expression parma_polyhedra_library::Linear_Expression::sum (Linear_Expression *y*) [inline]

Returns the sum of `this` and `y`.

Definition at line 39 of file Linear_Expression.java.

11.42.2.9 Linear_Expression parma_polyhedra_library::Linear_Expression::times (Coefficient *c*) [inline]

Returns the product of `this` times `c`.

Definition at line 49 of file Linear_Expression.java.

11.42.2.10 native String parma_polyhedra_library::Linear_Expression::toString ()

Returns a string representation of `this`.

11.42.2.11 Linear_Expression parma_polyhedra_library::Linear_Expression::unary_minus () [inline]

Returns the negation of `this`.

Definition at line 54 of file Linear_Expression.java.

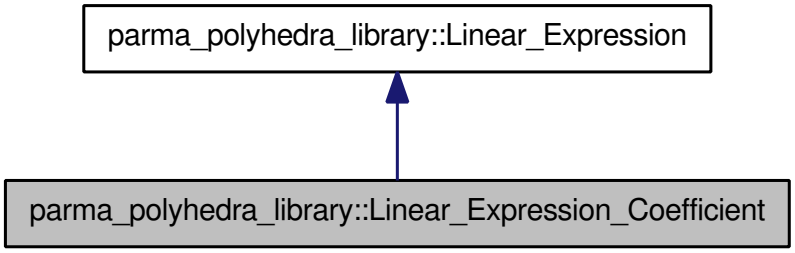
The documentation for this class was generated from the following file:

- Linear_Expression.java

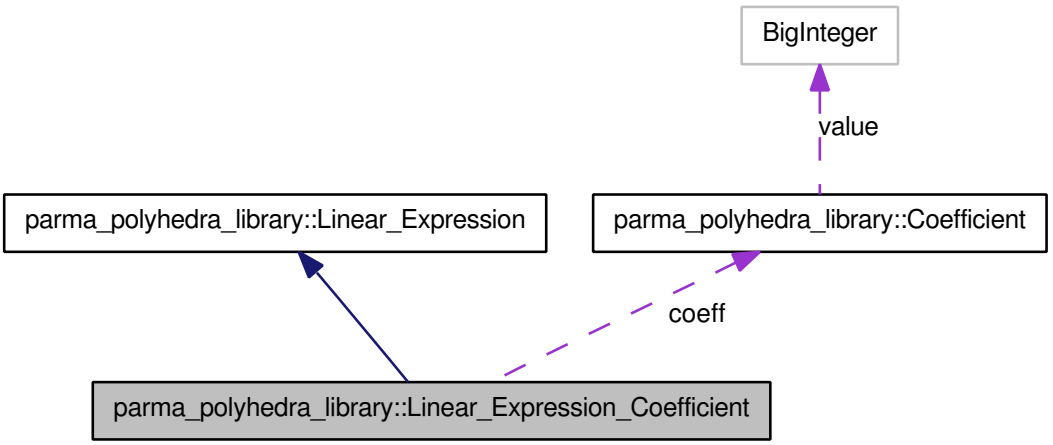
11.43 parma_polyhedra_library::Linear_Expression_Coefficient Class Reference

A linear expression built from a coefficient.

Inheritance diagram for parma_polyhedra_library::Linear_Expression_Coefficient:



Collaboration diagram for parma_polyhedra_library::Linear_Expression_Coefficient:



Public Member Functions

- Linear_Expression_Coefficient (Coefficient c)

  Builds the object corresponding to a copy of the coefficient c.

- Coefficient argument ()

Returns coefficient representing the linear expression.

- Linear_Expression_Coefficient clone ()

  Builds a copy of this.

Protected Attributes

- Coefficient coeff

  The coefficient representing the linear expression.

Static Package Functions

- [static initializer]

Static Private Member Functions

- static native void initIDs ()

11.43.1 Detailed Description

A linear expression built from a coefficient.

Definition at line 28 of file Linear_Expression_Coefficient.java.

11.43.2 Constructor & Destructor Documentation

11.43.2.1 parma_polyhedra_library::Linear_Expression_Coefficient::Linear_Expression_Coefficient (Coefficient *c*) [inline]

Builds the object corresponding to a copy of the coefficient `c`.

Definition at line 35 of file Linear_Expression_Coefficient.java.

References coeff.

Referenced by clone().

11.43.3 Member Function Documentation

11.43.3.1 parma_polyhedra_library::Linear_Expression_Coefficient::[static initializer] () [inline, static, package]

Reimplemented from parma_polyhedra_library::Linear_Expression.

11.43.3.2 Coefficient parma_polyhedra_library::Linear_Expression_Coefficient::argument () [inline]

Returns coefficient representing the linear expression.

Definition at line 40 of file Linear_Expression_Coefficient.java.

References coeff.

11.43.3.3 Linear_Expression_Coefficient parma_polyhedra_library::Linear_Expression_Coefficient::clone () [inline, virtual]

Builds a copy of this.

Implements parma_polyhedra_library::Linear_Expression.

Definition at line 45 of file Linear_Expression_Coefficient.java.

References coeff, and Linear_Expression_Coefficient().

11.43.3.4 static native void parma_polyhedra_library::Linear_Expression_Coefficient::initIDs () [static, private]

Reimplemented from parma_polyhedra_library::Linear_Expression.

11.43.4 Member Data Documentation

11.43.4.1 Coefficient parma_polyhedra_library::Linear_Expression_Coefficient::coeff [protected]

The coefficient representing the linear expression.

Definition at line 32 of file Linear_Expression_Coefficient.java.

Referenced by argument(), clone(), and Linear_Expression_Coefficient().

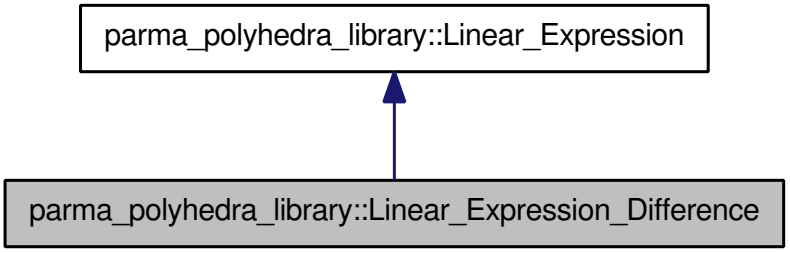
The documentation for this class was generated from the following file:

- Linear_Expression_Coefficient.java

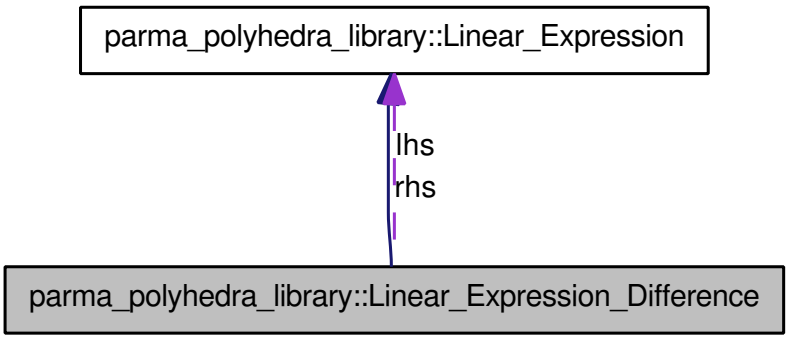
11.44 parma_polyhedra_library::Linear_Expression_Difference Class Reference

The difference of two linear expressions.

Inheritance diagram for parma_polyhedra_library::Linear_Expression_Difference:



Collaboration diagram for parma_polyhedra_library::Linear_Expression_Difference:



Public Member Functions

- Linear_Expression_Difference (Linear_Expression x, Linear_Expression y)

  Builds an object that represents the difference of the copy `x` *and* `y`.

- Linear_Expression left_hand_side ()

  Returns the left hand side of `this`.

- Linear_Expression right_hand_side ()

  Returns the left hand side of `this`.

- Linear_Expression_Difference clone ()

  Builds a copy of this.

Protected Attributes

- Linear_Expression lhs

  The value of the left hand side of `this`.

- Linear_Expression rhs

  The value of the right hand side of `this`.

Static Package Functions

- [static initializer]

Static Private Member Functions

- static native void initIDs ()

11.44.1 Detailed Description

The difference of two linear expressions.

Definition at line 28 of file Linear_Expression_Difference.java.

11.44.2 Constructor & Destructor Documentation

11.44.2.1 parma_polyhedra_library::Linear_Expression_Difference::Linear_Expression_Difference (Linear_Expression *x*, Linear_Expression *y*) [inline]

Builds an object that represents the difference of the copy `x` and `y`.

Definition at line 41 of file Linear_Expression_Difference.java.

References parma_polyhedra_library::Linear_Expression::clone(), lhs, and rhs.

Referenced by clone().

11.44.3 Member Function Documentation

11.44.3.1 parma_polyhedra_library::Linear_Expression_Difference::[static initializer] () [inline, static, package]

Reimplemented from parma_polyhedra_library::Linear_Expression.

11.44.3.2 Linear_Expression_Difference parma_polyhedra_library::Linear_Expression_Difference::clone () [inline, virtual]

Builds a copy of this.

Implements parma_polyhedra_library::Linear_Expression.

Definition at line 58 of file Linear_Expression_Difference.java.

References lhs, Linear_Expression_Difference(), and rhs.

11.44.3.3 static native void parma_polyhedra_library::Linear_Expression_Difference::initIDs () [static, private]

Reimplemented from parma_polyhedra_library::Linear_Expression.

11.44.3.4 Linear_Expression parma_polyhedra_library::Linear_Expression_Difference::left_hand_side () [inline]

Returns the left hand side of `this`.

Definition at line 48 of file Linear_Expression_Difference.java.

References lhs.

11.44.3.5 Linear_Expression parma_polyhedra_library::Linear_Expression_Difference::right_hand_side () [inline]

Returns the left hand side of `this`.

Definition at line 53 of file Linear_Expression_Difference.java.

References rhs.

11.44.4 Member Data Documentation

11.44.4.1 Linear_Expression parma_polyhedra_library::Linear_Expression_Difference::lhs [protected]

The value of the left hand side of `this`.

Definition at line 32 of file Linear_Expression_Difference.java.

Referenced by clone(), left_hand_side(), and Linear_Expression_Difference().

11.44.4.2 Linear_Expression parma_polyhedra_library::Linear_Expression_Difference::rhs [protected]

The value of the right hand side of `this`.

Definition at line 35 of file Linear_Expression_Difference.java.

Referenced by clone(), Linear_Expression_Difference(), and right_hand_side().

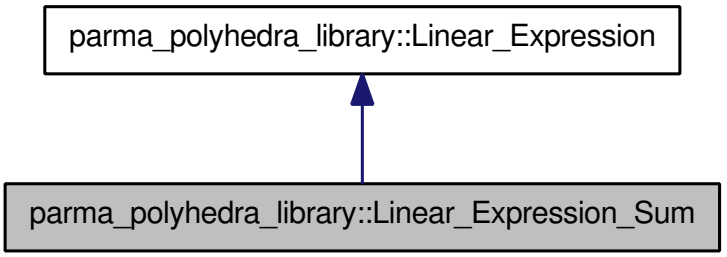
The documentation for this class was generated from the following file:

- Linear_Expression_Difference.java

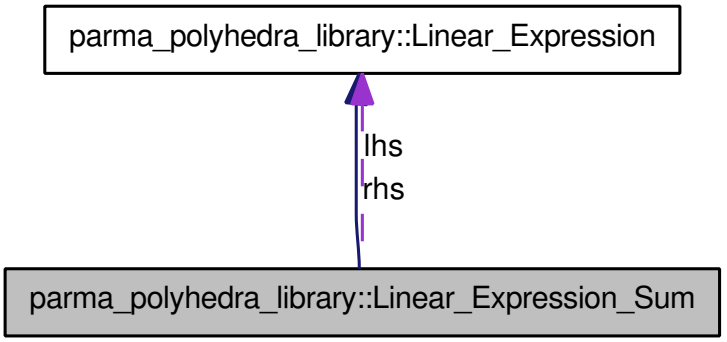
11.45 parma_polyhedra_library::Linear_Expression_Sum Class Reference

The sum of two linear expressions.

Inheritance diagram for parma_polyhedra_library::Linear_Expression_Sum:



Collaboration diagram for parma_polyhedra_library::Linear_Expression_Sum:



Public Member Functions

- Linear_Expression_Sum (Linear_Expression x, Linear_Expression y)

  Builds an object that represents the sum of the copy of `x` *and* `y`.

- Linear_Expression left_hand_side ()

  Returns the left hand side of `this`.

- Linear_Expression right_hand_side ()

  Returns the right hand side of `this`.

- Linear_Expression_Sum clone ()

  Builds a copy of this.

Protected Attributes

- Linear_Expression lhs

  The value of the left hand side of `this`.

- Linear_Expression rhs

  The value of the right hand side of `this`.

Static Package Functions

- [static initializer]

Static Private Member Functions

- static native void initIDs ()

11.45.1 Detailed Description

The sum of two linear expressions.

Definition at line 28 of file Linear_Expression_Sum.java.

11.45.2 Constructor & Destructor Documentation

11.45.2.1 parma_polyhedra_library::Linear_Expression_Sum::Linear_Expression_Sum (Linear_Expression *x*, Linear_Expression *y*) [inline]

Builds an object that represents the sum of the copy of `x` and `y`.

Definition at line 38 of file Linear_Expression_Sum.java.

References parma_polyhedra_library::Linear_Expression::clone(), lhs, and rhs.

Referenced by clone().

11.45.3 Member Function Documentation

11.45.3.1 parma_polyhedra_library::Linear_Expression_Sum::[static initializer] () [inline, static, package]

Reimplemented from parma_polyhedra_library::Linear_Expression.

11.45.3.2 Linear_Expression_Sum parma_polyhedra_library::Linear_Expression_Sum::clone () [inline, virtual]

Builds a copy of this.

Implements parma_polyhedra_library::Linear_Expression.

Definition at line 54 of file Linear_Expression_Sum.java.

References lhs, Linear_Expression_Sum(), and rhs.

11.45.3.3 static native void parma_polyhedra_library::Linear_Expression_Sum::initIDs () [static, private]

Reimplemented from parma_polyhedra_library::Linear_Expression.

11.45.3.4 Linear_Expression parma_polyhedra_library::Linear_Expression_Sum::left_hand_side () [inline]

Returns the left hand side of `this`.

Definition at line 44 of file Linear_Expression_Sum.java.

References lhs.

11.45.3.5 Linear_Expression parma_polyhedra_library::Linear_Expression_Sum::right_hand_side () [inline]

Returns the right hand side of `this`.

Definition at line 49 of file Linear_Expression_Sum.java.

References rhs.

11.45.4 Member Data Documentation

11.45.4.1 Linear_Expression parma_polyhedra_library::Linear_Expression_Sum::lhs [protected]

The value of the left hand side of `this`.

Definition at line 32 of file Linear_Expression_Sum.java.

Referenced by clone(), left_hand_side(), and Linear_Expression_Sum().

11.45.4.2 Linear_Expression parma_polyhedra_library::Linear_Expression_Sum::rhs [protected]

The value of the right hand side of `this`.

Definition at line 35 of file Linear_Expression_Sum.java.

Referenced by clone(), Linear_Expression_Sum(), and right_hand_side().

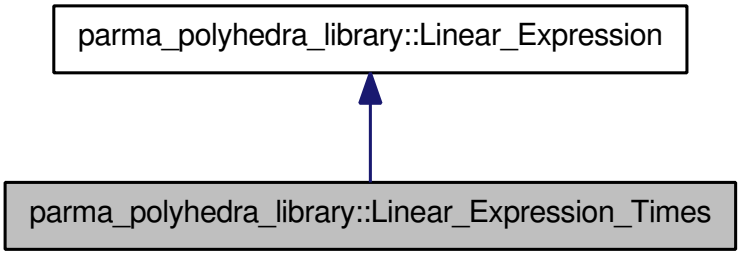
The documentation for this class was generated from the following file:

- Linear_Expression_Sum.java

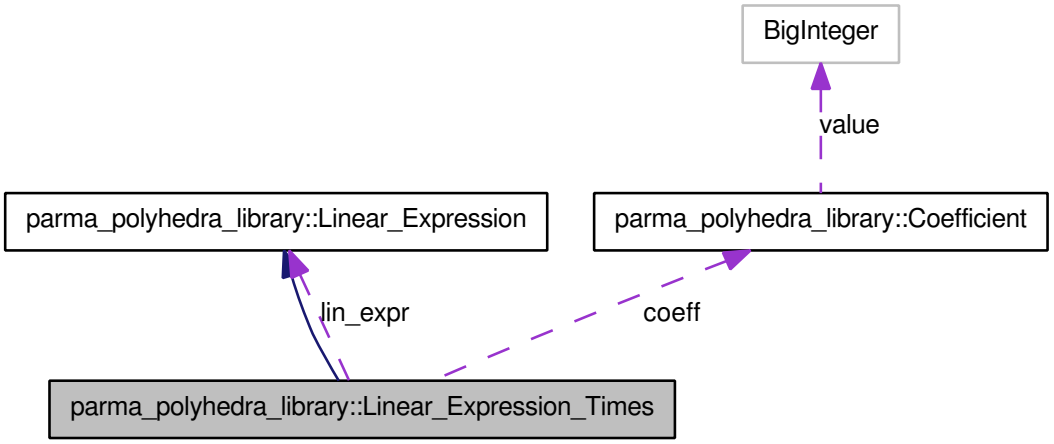
11.46 parma_polyhedra_library::Linear_Expression_Times Class Reference

The product of a linear expression and a coefficient.

Inheritance diagram for parma_polyhedra_library::Linear_Expression_Times:



Collaboration diagram for parma_polyhedra_library::Linear_Expression_Times:



Public Member Functions

- Linear_Expression_Times (Coefficient c, Variable v)

  Builds an object cloning the input arguments.

- Linear_Expression_Times (Coefficient c, Linear_Expression l)

  Builds an object cloning the input arguments.

- Linear_Expression_Times (Linear_Expression l, Coefficient c)

  Builds an object cloning the input arguments.

- Coefficient coefficient ()

  Returns the coefficient of `this`.

- Linear_Expression linear_expression ()

  Returns the linear expression subobject of `this`.

- Linear_Expression_Times clone ()

  Builds a copy of this.

Protected Attributes

- Coefficient coeff

  The value of the coefficient.

- Linear_Expression lin_expr

  The value of the inner linear expression.

Static Package Functions

- [static initializer]

Static Private Member Functions

- static native void initIDs ()

11.46.1 Detailed Description

The product of a linear expression and a coefficient.

Definition at line 28 of file Linear_Expression_Times.java.

11.46.2 Constructor & Destructor Documentation

11.46.2.1 parma_polyhedra_library::Linear_Expression_Times::Linear_Expression_Times (Coefficient *c*, Variable *v*) `[inline]`

Builds an object cloning the input arguments.

Definition at line 38 of file Linear_Expression_Times.java.

References coeff, and lin_expr.

Referenced by clone().

11.46.2.2 parma_polyhedra_library::Linear_Expression_Times::Linear_Expression_Times (Coefficient *c*, Linear_Expression *l*) `[inline]`

Builds an object cloning the input arguments.

Definition at line 44 of file Linear_Expression_Times.java.

References parma_polyhedra_library::Linear_Expression::clone(), coeff, and lin_expr.

11.46.2.3 parma_polyhedra_library::Linear_Expression_Times::Linear_Expression_Times (Linear_Expression *l*, Coefficient *c*) [inline]

Builds an object cloning the input arguments.

Definition at line 50 of file Linear_Expression_Times.java.

References parma_polyhedra_library::Linear_Expression::clone(), coeff, and lin_expr.

11.46.3 Member Function Documentation

11.46.3.1 parma_polyhedra_library::Linear_Expression_Times::[static initializer] () [inline, static, package]

Reimplemented from parma_polyhedra_library::Linear_Expression.

11.46.3.2 Linear_Expression_Times parma_polyhedra_library::Linear_Expression_Times::clone () [inline, virtual]

Builds a copy of this.

Implements parma_polyhedra_library::Linear_Expression.

Definition at line 66 of file Linear_Expression_Times.java.

References coeff, lin_expr, and Linear_Expression_Times().

11.46.3.3 Coefficient parma_polyhedra_library::Linear_Expression_Times::coefficient () [inline]

Returns the coefficient of `this`.

Definition at line 56 of file Linear_Expression_Times.java.

References coeff.

11.46.3.4 static native void parma_polyhedra_library::Linear_Expression_Times::initIDs () [static, private]

Reimplemented from parma_polyhedra_library::Linear_Expression.

11.46.3.5 Linear_Expression parma_polyhedra_library::Linear_Expression_Times::linear_expression () [inline]

Returns the linear expression subobject of `this`.

Definition at line 61 of file Linear_Expression_Times.java.

References lin_expr.

11.46.4 Member Data Documentation

11.46.4.1 Coefficient parma_polyhedra_library::Linear_Expression_Times::coeff [protected]

The value of the coefficient.

Definition at line 32 of file Linear_Expression_Times.java.

Referenced by clone(), coefficient(), and Linear_Expression_Times().

11.46.4.2 Linear_Expression parma_polyhedra_library::Linear_Expression_Times::lin_expr [protected]

The value of the inner linear expression.

Definition at line 35 of file Linear_Expression_Times.java.

Referenced by clone(), linear_expression(), and Linear_Expression_Times().

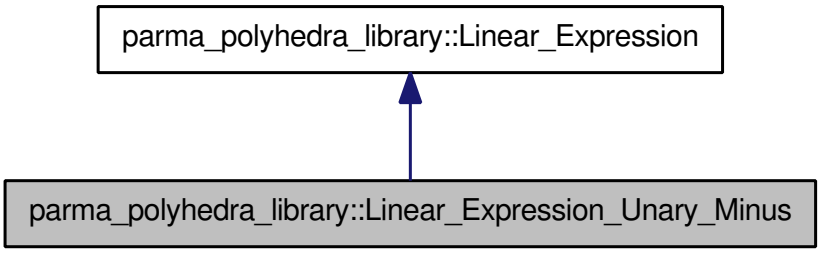
The documentation for this class was generated from the following file:

- Linear_Expression_Times.java

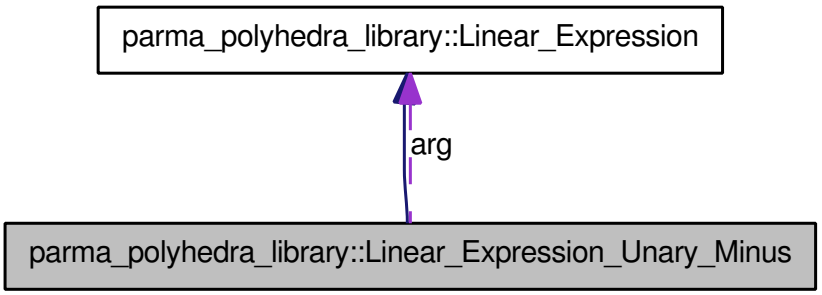
11.47 parma_polyhedra_library::Linear_Expression_Unary_Minus Class Reference

The negation of a linear expression.

Inheritance diagram for parma_polyhedra_library::Linear_Expression_Unary_Minus:



Collaboration diagram for parma_polyhedra_library::Linear_Expression_Unary_Minus:



Public Member Functions

- Linear_Expression_Unary_Minus (Linear_Expression x)

  Builds an object that represents the negation of the copy `x`*.*

- Linear_Expression argument ()

  Returns the value that `this` *negates.*

- Linear_Expression_Unary_Minus clone ()

  Builds a copy of this.

Protected Attributes

- Linear_Expression arg

  The value that `this` *negates.*

Static Package Functions

- [static initializer]

Static Private Member Functions

- static native void initIDs ()

11.47.1 Detailed Description

The negation of a linear expression.

Definition at line 28 of file Linear_Expression_Unary_Minus.java.

11.47.2 Constructor & Destructor Documentation

11.47.2.1 parma_polyhedra_library::Linear_Expression_Unary_Minus::Linear_Expression_-Unary_Minus (Linear_Expression *x*) [inline]

Builds an object that represents the negation of the copy `x`.

Definition at line 35 of file Linear_Expression_Unary_Minus.java.

References arg, and parma_polyhedra_library::Linear_Expression::clone().

Referenced by clone().

11.47.3 Member Function Documentation

11.47.3.1 parma_polyhedra_library::Linear_Expression_Unary_Minus::[static initializer] () [inline, static, package]

Reimplemented from parma_polyhedra_library::Linear_Expression.

11.47.3.2 Linear_Expression parma_polyhedra_library::Linear_Expression_Unary_-Minus::argument () [inline]

Returns the value that `this` negates.

Definition at line 40 of file Linear_Expression_Unary_Minus.java.

References arg.

11.47.3.3 Linear_Expression_Unary_Minus parma_polyhedra_library::Linear_Expression_-Unary_Minus::clone () [inline, virtual]

Builds a copy of this.

Implements parma_polyhedra_library::Linear_Expression.

Definition at line 45 of file Linear_Expression_Unary_Minus.java.

References arg, and Linear_Expression_Unary_Minus().

11.47.3.4 static native void parma_polyhedra_library::Linear_Expression_Unary_Minus::initIDs () [static, private]

Reimplemented from parma_polyhedra_library::Linear_Expression.

11.47.4 Member Data Documentation

11.47.4.1 Linear_Expression parma_polyhedra_library::Linear_Expression_Unary_Minus::arg [protected]

The value that `this` negates.

Definition at line 32 of file Linear_Expression_Unary_Minus.java.

Referenced by argument(), clone(), and Linear_Expression_Unary_Minus().

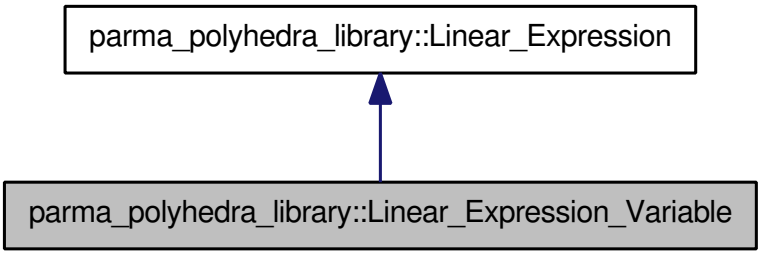
The documentation for this class was generated from the following file:

- Linear_Expression_Unary_Minus.java

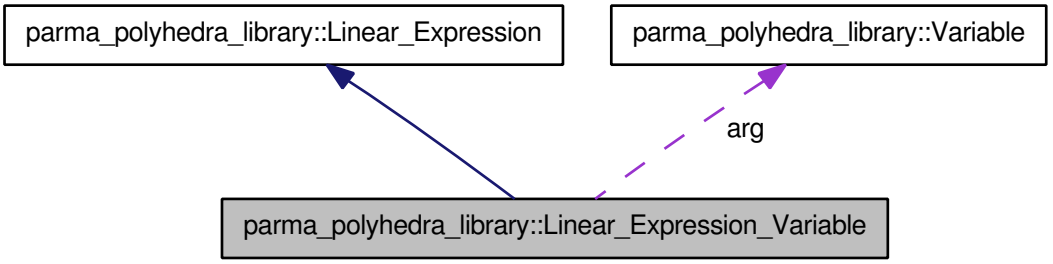
11.48 parma_polyhedra_library::Linear_Expression_Variable Class Reference

A linear expression built from a variable.

Inheritance diagram for parma_polyhedra_library::Linear_Expression_Variable:



Collaboration diagram for parma_polyhedra_library::Linear_Expression_Variable:



Public Member Functions

- Linear_Expression_Variable (Variable v)

  Builds the object associated to the copy of `v`.

- Variable argument ()

  Returns the variable representing the linear expression.

- Linear_Expression_Variable clone ()

  Builds a copy of this.

Protected Attributes

- Variable arg

Static Package Functions

- [static initializer]

Private Member Functions

- int var_id ()

Static Private Member Functions

- static native void initIDs ()

11.48.1 Detailed Description

A linear expression built from a variable.

Definition at line 28 of file Linear_Expression_Variable.java.

11.48.2 Constructor & Destructor Documentation

11.48.2.1 parma_polyhedra_library::Linear_Expression_Variable::Linear_Expression_Variable (Variable *v*) [inline]

Builds the object associated to the copy of `v`.

Definition at line 34 of file Linear_Expression_Variable.java.

References arg, and parma_polyhedra_library::Variable::id().

Referenced by clone().

11.48.3 Member Function Documentation

11.48.3.1 parma_polyhedra_library::Linear_Expression_Variable::[static initializer] () [inline, static, package]

Reimplemented from parma_polyhedra_library::Linear_Expression.

11.48.3.2 Variable parma_polyhedra_library::Linear_Expression_Variable::argument () [inline]

Returns the variable representing the linear expression.

Definition at line 39 of file Linear_Expression_Variable.java.

References arg.

11.48.3.3 Linear_Expression_Variable parma_polyhedra_library::Linear_Expression_-Variable::clone () [inline, virtual]

Builds a copy of this.

Implements parma_polyhedra_library::Linear_Expression.

Definition at line 44 of file Linear_Expression_Variable.java.

References arg, and Linear_Expression_Variable().

11.48.3.4 static native void parma_polyhedra_library::Linear_Expression_Variable::initIDs () [static, private]

Reimplemented from parma_polyhedra_library::Linear_Expression.

11.48.3.5 int parma_polyhedra_library::Linear_Expression_Variable::var_id () [inline, private]

Definition at line 48 of file Linear_Expression_Variable.java.

References arg, and parma_polyhedra_library::Variable::id().

11.48.4 Member Data Documentation

11.48.4.1 Variable parma_polyhedra_library::Linear_Expression_Variable::arg [protected]

Definition at line 31 of file Linear_Expression_Variable.java.

Referenced by argument(), clone(), Linear_Expression_Variable(), and var_id().

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

- Linear_Expression_Variable.java

11.49 parma_polyhedra_library::Logic_Error_Exception Class Reference

Exceptions due to errors in low-level routines.

Public Member Functions

- Logic_Error_Exception (String s)

  Constructor.

11.49.1 Detailed Description

Exceptions due to errors in low-level routines. These exceptions may be generated, for instance, by the inability of querying/controlling the FPU behavior with respect to rounding modes.

Definition at line 31 of file Logic_Error_Exception.java.

11.49.2 Constructor & Destructor Documentation

11.49.2.1 parma_polyhedra_library::Logic_Error_Exception::Logic_Error_Exception (String *s*) [inline]

Constructor.

Definition at line 34 of file Logic_Error_Exception.java.

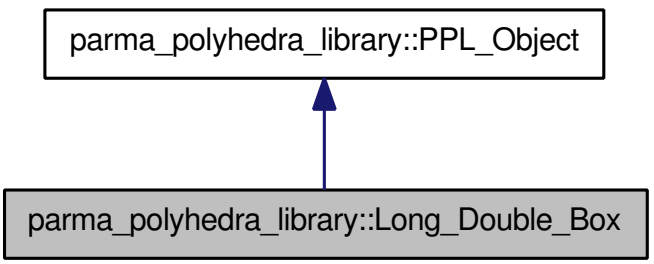
The documentation for this class was generated from the following file:

- Logic_Error_Exception.java

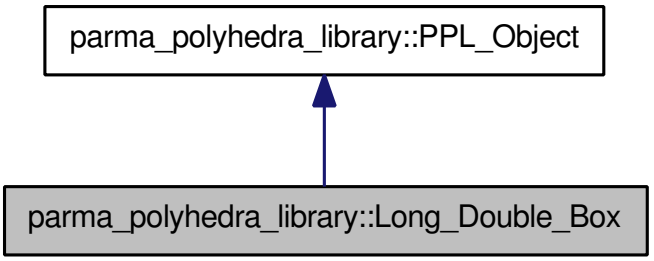
11.50 parma_polyhedra_library::Long_Double_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Long_Double_Box.

Inheritance diagram for parma_polyhedra_library::Long_Double_Box:



Collaboration diagram for parma_polyhedra_library::Long_Double_Box:



Public Member Functions

- Long_Double_Box (long num_dimensions, Degenerate_Element kind)
- Long_Double_Box (Int8_Box y)
- Long_Double_Box (Int16_Box y)
- Long_Double_Box (Int32_Box y)
- Long_Double_Box (Int64_Box y)
- Long_Double_Box (Uint8_Box y)
- Long_Double_Box (Uint16_Box y)
- Long_Double_Box (Uint32_Box y)
- Long_Double_Box (Uint64_Box y)
- Long_Double_Box (Z_Box y)
- Long_Double_Box (Rational_Box y)
- Long_Double_Box (BD_Shape_int8_t y)
- Long_Double_Box (BD_Shape_int16_t y)
- Long_Double_Box (BD_Shape_int32_t y)
- Long_Double_Box (BD_Shape_int64_t y)
- Long_Double_Box (BD_Shape_mpz_class y)
- Long_Double_Box (BD_Shape_mpq_class y)
- Long_Double_Box (Octagonal_Shape_int8_t y)
- Long_Double_Box (Octagonal_Shape_int16_t y)
- Long_Double_Box (Octagonal_Shape_int32_t y)
- Long_Double_Box (Octagonal_Shape_int64_t y)
- Long_Double_Box (Octagonal_Shape_mpz_class y)
- Long_Double_Box (Octagonal_Shape_mpq_class y)
- Long_Double_Box (C_Polyhedron y)
- Long_Double_Box (NNC_Polyhedron y)
- Long_Double_Box (Grid y)
- Long_Double_Box (Float_Box y)
- Long_Double_Box (BD_Shape_float y)
- Long_Double_Box (Octagonal_Shape_float y)
- Long_Double_Box (Double_Box y)
- Long_Double_Box (BD_Shape_double y)
- Long_Double_Box (Octagonal_Shape_double y)
- Long_Double_Box (Long_Double_Box y)
- Long_Double_Box (BD_Shape_long_double y)
- Long_Double_Box (Octagonal_Shape_long_double y)
- Long_Double_Box (Int8_Box y, Complexity_Class complexity)

- Long_Double_Box (Int16_Box y, Complexity_Class complexity)
- Long_Double_Box (Int32_Box y, Complexity_Class complexity)
- Long_Double_Box (Int64_Box y, Complexity_Class complexity)
- Long_Double_Box (Uint8_Box y, Complexity_Class complexity)
- Long_Double_Box (Uint16_Box y, Complexity_Class complexity)
- Long_Double_Box (Uint32_Box y, Complexity_Class complexity)
- Long_Double_Box (Uint64_Box y, Complexity_Class complexity)
- Long_Double_Box (Z_Box y, Complexity_Class complexity)
- Long_Double_Box (Rational_Box y, Complexity_Class complexity)
- Long_Double_Box (BD_Shape_int8_t y, Complexity_Class complexity)
- Long_Double_Box (BD_Shape_int16_t y, Complexity_Class complexity)
- Long_Double_Box (BD_Shape_int32_t y, Complexity_Class complexity)
- Long_Double_Box (BD_Shape_int64_t y, Complexity_Class complexity)
- Long_Double_Box (BD_Shape_mpz_class y, Complexity_Class complexity)
- Long_Double_Box (BD_Shape_mpq_class y, Complexity_Class complexity)
- Long_Double_Box (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Long_Double_Box (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Long_Double_Box (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Long_Double_Box (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Long_Double_Box (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Long_Double_Box (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Long_Double_Box (C_Polyhedron y, Complexity_Class complexity)
- Long_Double_Box (NNC_Polyhedron y, Complexity_Class complexity)
- Long_Double_Box (Grid y, Complexity_Class complexity)
- Long_Double_Box (Float_Box y, Complexity_Class complexity)
- Long_Double_Box (BD_Shape_float y, Complexity_Class complexity)
- Long_Double_Box (Octagonal_Shape_float y, Complexity_Class complexity)
- Long_Double_Box (Double_Box y, Complexity_Class complexity)
- Long_Double_Box (BD_Shape_double y, Complexity_Class complexity)
- Long_Double_Box (Octagonal_Shape_double y, Complexity_Class complexity)
- Long_Double_Box (Long_Double_Box y, Complexity_Class complexity)
- Long_Double_Box (BD_Shape_long_double y, Complexity_Class complexity)
- Long_Double_Box (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Long_Double_Box (Constraint_System cs)
- Long_Double_Box (Congruence_System cs)
- Long_Double_Box (Generator_System cs)
- native void swap (Long_Double_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()

- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Long_Double_Box y)
- native boolean strictly_contains (Long_Double_Box y)
- native boolean is_disjoint_from (Long_Double_Box y)
- native boolean equals (Long_Double_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Long_Double_Box p)
- native void upper_bound_assign (Long_Double_Box p)
- native void difference_assign (Long_Double_Box p)
- native void concatenate_assign (Long_Double_Box p)
- native void time_elapse_assign (Long_Double_Box p)
- native boolean upper_bound_assign_if_exact (Long_Double_Box y)
- native boolean simplify_using_context_assign (Long_Double_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)

- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void CC76_widening_assign (Long_Double_Box y, By_Reference< Integer > tp)
- native void widening_assign (Long_Double_Box y, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Long_Double_Box y, Constraint_System cs, By_Reference< Integer > tp)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native String toString ()

Static Public Member Functions

- static native Pair< Long_Double_Box, Pointset_Powerset_NNC_Polyhedron > linear_partition (Long_Double_Box p, Long_Double_Box q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Long_Double_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)

- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)

- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.50.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Long_Double_Box.

Definition at line 33 of file Long_Double_Box.java.

11.50.2 Constructor & Destructor Documentation

11.50.2.1 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.2 parma_polyhedra_library::Long_Double_Box::Long_Double_Box () [inline, private]

Definition at line 45 of file Long_Double_Box.java.

11.50.2.3 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Int8_Box *y*) [inline]

Definition at line 52 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.4 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Int16_Box *y*) [inline]

Definition at line 56 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.5 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Int32_Box *y*) [inline]

Definition at line 60 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.6 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Int64_Box *y*) [inline]

Definition at line 64 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.7 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Uint8_Box *y*) [inline]

Definition at line 68 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.8 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Uint16_Box *y*) [inline]

Definition at line 72 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.9 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Uint32_Box *y*) [inline]

Definition at line 76 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.10 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Uint64_Box *y*) [inline]

Definition at line 80 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.11 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Z_Box *y*) [inline]

Definition at line 84 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.12 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Rational_Box *y*) [inline]

Definition at line 88 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.13 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.14 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.15 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.16 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.17 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.18 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.19 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.20 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.21 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.22 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.23 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.24 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.25 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (C_Polyhedron *y*) [inline]

Definition at line 140 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.26 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.27 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Grid *y*) [inline]

Definition at line 148 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.28 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Float_Box *y*) [inline]

Definition at line 152 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.29 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (BD_Shape_float *y*) [inline]

Definition at line 156 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.30 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.31 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Double_Box *y*) [inline]

Definition at line 164 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.32 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (BD_Shape_double *y*) [inline]

Definition at line 168 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.33 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.34 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Long_Double_Box *y*) [inline]

Definition at line 176 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.35 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.36 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.37 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.38 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.39 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.40 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.41 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.42 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.43 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.44 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.45 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.46 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.47 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.48 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.49 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.50 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.51 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.52 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.53 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.54 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.55 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.56 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.57 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.58 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.59 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.60 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.61 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.62 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.63 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.64 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.65 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.66 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.67 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.68 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.69 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.70 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.71 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Constraint_System *cs*) [inline]

Definition at line 334 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.72 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Congruence_System *cs*) [inline]

Definition at line 338 of file Long_Double_Box.java.

References build_cpp_object().

11.50.2.73 parma_polyhedra_library::Long_Double_Box::Long_Double_Box (Generator_System *cs*) [inline]

Definition at line 342 of file Long_Double_Box.java.

References build_cpp_object().

11.50.3 Member Function Documentation

11.50.3.1 native void parma_polyhedra_library::Long_Double_Box::add_congruence (Congruence *c*)

11.50.3.2 native void parma_polyhedra_library::Long_Double_Box::add_congruences (Congruence_System *c*)

11.50.3.3 native void parma_polyhedra_library::Long_Double_Box::add_constraint (Constraint *c*)

11.50.3.4 native void parma_polyhedra_library::Long_Double_Box::add_constraints (Constraint_System *c*)

11.50.3.5 native void parma_polyhedra_library::Long_Double_Box::add_space_dimensions_and_embed (long *m*)

11.50.3.6 native void parma_polyhedra_library::Long_Double_Box::add_space_dimensions_and_project (long *m*)

11.50.3.7 native long parma_polyhedra_library::Long_Double_Box::affine_dimension ()

11.50.3.8 native void parma_polyhedra_library::Long_Double_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.50.3.9 native void parma_polyhedra_library::Long_Double_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.50.3.10 native String parma_polyhedra_library::Long_Double_Box::ascii_dump ()

11.50.3.11 native void parma_polyhedra_library::Long_Double_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.50.3.12 native void parma_polyhedra_library::Long_Double_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.50.3.13 native boolean parma_polyhedra_library::Long_Double_Box::bounds_from_above (Linear_Expression *expr*)

11.50.3.14 native boolean parma_polyhedra_library::Long_Double_Box::bounds_from_below (Linear_Expression *expr*)

11.50.3.15 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.50.3.16 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Octagonal_Shape_long_double *y*) [private]

11.50.3.17 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.50.3.18 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (BD_Shape_long_double *y*) [private]

11.50.3.19 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.50.3.20 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Long_Double_Box *y*) [private]

11.50.3.21 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.50.3.22 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.50.3.23 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.50.3.24 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (BD_Shape_double *y*) [private]

11.50.3.25 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.50.3.26 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Double_Box *y*) [private]

11.50.3.27 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.50.3.28 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.50.3.29 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.50.3.30 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (BD_Shape_float *y*) [private]

11.50.3.31 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.50.3.32 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Float_Box *y*) [private]

11.50.3.33 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.50.3.34 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Grid *y*) [private]

11.50.3.35 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.50.3.36 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (NNC_Polyhedron *y*) [private]

11.50.3.37 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.50.3.38 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (C_Polyhedron *y*) [private]

11.50.3.39 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.50.3.40 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.50.3.41 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.50.3.42 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.50.3.43 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.50.3.44 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.50.3.45 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.50.3.46 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.50.3.47 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.50.3.48 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.50.3.49 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.50.3.50 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.50.3.51 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.50.3.52 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.50.3.53 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.50.3.54 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.50.3.55 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.50.3.56 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.50.3.57 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.50.3.58 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.50.3.59 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.50.3.60 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.50.3.61 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.50.3.62 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.50.3.63 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.50.3.64 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Rational_Box *y*) [private]

11.50.3.65 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.50.3.66 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Z_Box *y*) [private]

11.50.3.67 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.50.3.68 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Uint64_Box *y*) [private]

11.50.3.69 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.50.3.70 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Uint32_Box *y*) [private]

11.50.3.71 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.50.3.72 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Uint16_Box *y*) [private]

11.50.3.73 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.50.3.74 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Uint8_Box *y*) [private]

11.50.3.75 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.50.3.76 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Int64_Box *y*) [private]

11.50.3.77 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.50.3.78 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Int32_Box *y*) [private]

11.50.3.79 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.50.3.80 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Int16_Box *y*) [private]

11.50.3.81 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.50.3.82 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Int8_Box *y*) [private]

11.50.3.83 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.50.3.84 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Generator_System *cs*) [private]

11.50.3.85 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Congruence_System *cs*) [private]

11.50.3.86 native void parma_polyhedra_library::Long_Double_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Long_Double_Box().

11.50.3.87 native void parma_polyhedra_library::Long_Double_Box::CC76_widening_assign (Long_Double_Box *y*, By_Reference< Integer > *tp*)

11.50.3.88 native void parma_polyhedra_library::Long_Double_Box::concatenate_assign (Long_Double_Box *p*)

11.50.3.89 native Congruence_System parma_polyhedra_library::Long_Double_Box::congruences ()

11.50.3.90 native boolean parma_polyhedra_library::Long_Double_Box::constrains (Variable *var*)

11.50.3.91 native Constraint_System parma_polyhedra_library::Long_Double_Box::constraints ()

11.50.3.92 native boolean parma_polyhedra_library::Long_Double_Box::contains (Long_Double_Box *y*)

11.50.3.93 native boolean parma_polyhedra_library::Long_Double_Box::contains_integer_point ()

11.50.3.94 native void parma_polyhedra_library::Long_Double_Box::difference_assign (Long_Double_Box *p*)

11.50.3.95 native void parma_polyhedra_library::Long_Double_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.50.3.96 native void parma_polyhedra_library::Long_Double_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.50.3.97 boolean parma_polyhedra_library::Long_Double_Box::equals (Object *y*) [inline]

Definition at line 465 of file Long_Double_Box.java.

References equals().

11.50.3.98 native boolean parma_polyhedra_library::Long_Double_Box::equals (Long_Double_Box *p*)

Referenced by equals().

11.50.3.99 native void parma_polyhedra_library::Long_Double_Box::expand_space_dimension (Variable *var*, long *m*)

11.50.3.100 native long parma_polyhedra_library::Long_Double_Box::external_memory_in_bytes ()

11.50.3.101 native void parma_polyhedra_library::Long_Double_Box::finalize () [protected]

11.50.3.102 native void parma_polyhedra_library::Long_Double_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.50.3.103 native void parma_polyhedra_library::Long_Double_Box::free ()

11.50.3.104 native boolean parma_polyhedra_library::Long_Double_Box::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.50.3.105 native void parma_polyhedra_library::Long_Double_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.50.3.106 native void parma_polyhedra_library::Long_Double_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.50.3.107 native void parma_polyhedra_library::Long_Double_Box::generalized_affine_-preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.50.3.108 native void parma_polyhedra_library::Long_Double_Box::generalized_affine_-preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.50.3.109 native void parma_polyhedra_library::Long_Double_Box::intersection_assign (Long_Double_Box *p*)

11.50.3.110 native boolean parma_polyhedra_library::Long_Double_Box::is_bounded ()

11.50.3.111 native boolean parma_polyhedra_library::Long_Double_Box::is_discrete ()

11.50.3.112 native boolean parma_polyhedra_library::Long_Double_Box::is_disjoint_from (Long_Double_Box *y*)

11.50.3.113 native boolean parma_polyhedra_library::Long_Double_Box::is_empty ()

11.50.3.114 native boolean parma_polyhedra_library::Long_Double_Box::is_topologically_closed ()

11.50.3.115 native boolean parma_polyhedra_library::Long_Double_Box::is_universe ()

11.50.3.116 native void parma_polyhedra_library::Long_Double_Box::limited_CC76_-extrapolation_assign (Long_Double_Box *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.50.3.117 static native Pair<Long_Double_Box, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Long_Double_Box::linear_partition (Long_Double_Box *p*, Long_Double_Box *q*) `[static]`

11.50.3.118 native void parma_polyhedra_library::Long_Double_Box::map_space_dimensions (Partial_Function *pfunc*)

11.50.3.119 native boolean parma_polyhedra_library::Long_Double_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.50.3.120 native boolean parma_polyhedra_library::Long_Double_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.50.3.121 native boolean parma_polyhedra_library::Long_Double_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.50.3.122 native boolean parma_polyhedra_library::Long_Double_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.50.3.123 native Congruence_System parma_polyhedra_library::Long_Double_Box::minimized_congruences ()

11.50.3.124 native Constraint_System parma_polyhedra_library::Long_Double_Box::minimized_constraints ()

11.50.3.125 native boolean parma_polyhedra_library::Long_Double_Box::OK ()

11.50.3.126 native void parma_polyhedra_library::Long_Double_Box::refine_with_congruence (Congruence *c*)

11.50.3.127 native void parma_polyhedra_library::Long_Double_Box::refine_with_congruences (Congruence_System *c*)

11.50.3.128 native void parma_polyhedra_library::Long_Double_Box::refine_with_constraint (Constraint *c*)

11.50.3.129 native void parma_polyhedra_library::Long_Double_Box::refine_with_constraints (Constraint_System *c*)

11.50.3.130 native Poly_Con_Relation parma_polyhedra_library::Long_Double_Box::relation_with (Congruence *c*)

11.50.3.131 native Poly_Gen_Relation parma_polyhedra_library::Long_Double_Box::relation_with (Generator *c*)

11.50.3.132 native Poly_Con_Relation parma_polyhedra_library::Long_Double_Box::relation_with (Constraint *c*)

11.50.3.133 native void parma_polyhedra_library::Long_Double_Box::remove_higher_space_dimensions (long *new_dimension*)

11.50.3.134 native void parma_polyhedra_library::Long_Double_Box::remove_space_dimensions (Variables_Set *vars*)

11.50.3.135 native boolean parma_polyhedra_library::Long_Double_Box::simplify_using_context_assign (Long_Double_Box *p*)

11.50.3.136 native long parma_polyhedra_library::Long_Double_Box::space_dimension ()

11.50.3.137 native boolean parma_polyhedra_library::Long_Double_Box::strictly_contains (Long_Double_Box *y*)

11.50.3.138 native void parma_polyhedra_library::Long_Double_Box::swap (Long_Double_Box *y*)

11.50.3.139 native void parma_polyhedra_library::Long_Double_Box::time_elapse_assign (Long_Double_Box *p*)

11.50.3.140 native void parma_polyhedra_library::Long_Double_Box::topological_closure_assign ()

11.50.3.141 native String parma_polyhedra_library::Long_Double_Box::toString ()

11.50.3.142 native long parma_polyhedra_library::Long_Double_Box::total_memory_in_bytes ()

11.50.3.143 native void parma_polyhedra_library::Long_Double_Box::unconstrain_space_dimension (Variable *var*)

11.50.3.144 native void parma_polyhedra_library::Long_Double_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.50.3.145 native void parma_polyhedra_library::Long_Double_Box::upper_bound_assign (Long_Double_Box *p*)

11.50.3.146 native boolean parma_polyhedra_library::Long_Double_Box::upper_bound_assign_if_exact (Long_Double_Box *y*)

11.50.3.147 native void parma_polyhedra_library::Long_Double_Box::widening_assign (Long_Double_Box *y*, By_Reference< Integer > *tp*)

11.50.3.148 native void parma_polyhedra_library::Long_Double_Box::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

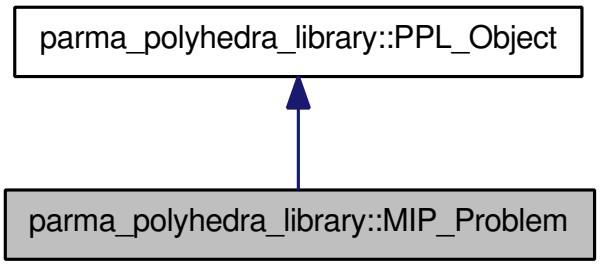
The documentation for this class was generated from the following file:

- Long_Double_Box.java

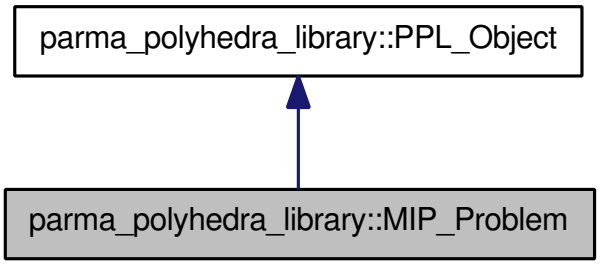
11.51 parma_polyhedra_library::MIP_Problem Class Reference

A Mixed Integer (linear) Programming problem.

Inheritance diagram for parma_polyhedra_library::MIP_Problem:



Collaboration diagram for parma_polyhedra_library::MIP_Problem:



Public Member Functions

Functions that Do Not Modify the MIP_Problem

- native long max_space_dimension ()
  Returns the maximum space dimension an MIP_Problem can handle.
- native long space_dimension ()
  Returns the space dimension of the MIP problem.
- native Variables_Set integer_space_dimensions ()
  Returns a set containing all the variables' indexes constrained to be integral.
- native Constraint_System constraints ()
  Returns the constraints .
- native Linear_Expression objective_function ()
  Returns the objective function.
- native Optimization_Mode optimization_mode ()
  Returns the optimization mode.
- native String ascii_dump ()
  Returns an ascii formatted internal representation of `this`.
- native String toString ()
  Returns a string representation of `this`.

- native long total_memory_in_bytes ()
  Returns the total size in bytes of the memory occupied by the underlying C++ object.

- native boolean OK ()
  Checks if all the invariants are satisfied.

Functions that May Modify the MIP_Problem

- native void clear ()
  Resets `this` to be equal to the trivial MIP problem.

- native void add_space_dimensions_and_embed (long m)
  Adds `m` new space dimensions and embeds the old MIP problem in the new vector space.

- native void add_to_integer_space_dimensions (Variables_Set i_vars)
  Sets the variables whose indexes are in set `i_vars` to be integer space dimensions.

- native void add_constraint (Constraint c)
  Adds a copy of constraint `c` to the MIP problem.

- native void add_constraints (Constraint_System cs)
  Adds a copy of the constraints in `cs` to the MIP problem.

- native void set_objective_function (Linear_Expression obj)
  Sets the objective function to `obj`.

- native void set_optimization_mode (Optimization_Mode mode)
  Sets the optimization mode to `mode`.

Computing the Solution of the MIP_Problem

- native boolean is_satisfiable ()
  Checks satisfiability of `*this`.

- native MIP_Problem_Status solve ()
  Optimizes the MIP problem.

- native void evaluate_objective_function (Generator evaluating_point, Coefficient num, Coefficient den)
  Sets `num` and `den` so that $\frac{num}{den}$ is the result of evaluating the objective function on `evaluating_point`.

- native Generator feasible_point ()
  Returns a feasible point for `*this`, if it exists.

- native Generator optimizing_point ()
  Returns an optimal point for `this`, if it exists.

- native void optimal_value (Coefficient num, Coefficient den)
  Sets `num` and `den` so that $\frac{num}{den}$ is the solution of the optimization problem.

Querying/Setting Control Parameters

- native Control_Parameter_Value get_control_parameter (Control_Parameter_Name name)
  Returns the value of control parameter `name`.
- native void set_control_parameter (Control_Parameter_Value value)
  Sets control parameter `value`.

Private Member Functions

- native void build_cpp_object (long dim)
  Builds the underlying C++ object.
- native void build_cpp_object (long dim, Constraint_System cs, Linear_Expression obj, Optimization_Mode mode)
  Builds the underlying C++ object.
- native void build_cpp_object (MIP_Problem y)
  Builds the underlying C++ object.

Constructors and Destructor

- MIP_Problem (long dim)
  Builds a trivial MIP problem.
- MIP_Problem (long dim, Constraint_System cs, Linear_Expression obj, Optimization_Mode mode)
  Builds an MIP problem having space dimension `dim` *from the constraint system* `cs`*, the objective function* `obj` *and optimization mode* `mode`.
- MIP_Problem (MIP_Problem y)
  Builds a copy of `y`.
- native void free ()
  Releases all resources managed by `this`*, also resetting it to a null reference.*
- native void finalize ()
  Releases all resources managed by `this`.

11.51.1 Detailed Description

A Mixed Integer (linear) Programming problem. An object of this class encodes a mixed integer (linear) programming problem. The MIP problem is specified by providing:

- the dimension of the vector space;
- the feasible region, by means of a finite set of linear equality and non-strict inequality constraints;
- the subset of the unknown variables that range over the integers (the other variables implicitly ranging over the reals);

- the objective function, described by a Linear_Expression;
- the optimization mode (either maximization or minimization).

The class provides support for the (incremental) solution of the MIP problem based on variations of the revised simplex method and on branch-and-bound techniques. The result of the resolution process is expressed in terms of an enumeration, encoding the feasibility and the unboundedness of the optimization problem. The class supports simple feasibility tests (i.e., no optimization), as well as the extraction of an optimal (resp., feasible) point, provided the MIP_Problem is optimizable (resp., feasible).

By exploiting the incremental nature of the solver, it is possible to reuse part of the computational work already done when solving variants of a given MIP_Problem: currently, incremental resolution supports the addition of space dimensions, the addition of constraints, the change of objective function and the change of optimization mode.

Definition at line 57 of file MIP_Problem.java.

11.51.2 Constructor & Destructor Documentation

11.51.2.1 parma_polyhedra_library::MIP_Problem::MIP_Problem (long *dim*) [inline]

Builds a trivial MIP problem.

A trivial MIP problem requires to maximize the objective function 0 on a vector space under no constraints at all: the origin of the vector space is an optimal solution.

Parameters

dim The dimension of the vector space enclosing `this`.

Exceptions

std::length_error Thrown if `dim` exceeds `max_space_dimension()`.

Definition at line 74 of file MIP_Problem.java.

References build_cpp_object().

11.51.2.2 parma_polyhedra_library::MIP_Problem::MIP_Problem (long *dim*, Constraint_System *cs*, Linear_Expression *obj*, Optimization_Mode *mode*) [inline]

Builds an MIP problem having space dimension `dim` from the constraint system `cs`, the objective function `obj` and optimization mode `mode`.

Parameters

dim The dimension of the vector space enclosing `this`.

cs The constraint system defining the feasible region.

obj The objective function.

mode The optimization mode.

Exceptions

std::length_error Thrown if `dim` exceeds `max_space_dimension()`.

std::invalid_argument Thrown if the constraint system contains any strict inequality or if the space dimension of the constraint system (resp., the objective function) is strictly greater than `dim`.

Definition at line 103 of file MIP_Problem.java.

References build_cpp_object().

11.51.2.3 parma_polyhedra_library::MIP_Problem::MIP_Problem (MIP_Problem *y*) [inline]

Builds a copy of `y`.

Definition at line 109 of file MIP_Problem.java.

References build_cpp_object().

11.51.3 Member Function Documentation

11.51.3.1 native void parma_polyhedra_library::MIP_Problem::add_constraint (Constraint *c*)

Adds a copy of constraint `c` to the MIP problem.

Exceptions

std::invalid_argument Thrown if the constraint `c` is a strict inequality or if its space dimension is strictly greater than the space dimension of `this`.

11.51.3.2 native void parma_polyhedra_library::MIP_Problem::add_constraints (Constraint_System *cs*)

Adds a copy of the constraints in `cs` to the MIP problem.

Exceptions

std::invalid_argument Thrown if the constraint system `cs` contains any strict inequality or if its space dimension is strictly greater than the space dimension of `*this`.

11.51.3.3 native void parma_polyhedra_library::MIP_Problem::add_space_dimensions_and_embed (long *m*)

Adds `m` new space dimensions and embeds the old MIP problem in the new vector space.

Parameters

m The number of dimensions to add.

Exceptions

std::length_error Thrown if adding `m` new space dimensions would cause the vector space to exceed dimension `max_space_dimension()`.

The new space dimensions will be those having the highest indexes in the new MIP problem; they are initially unconstrained.

11.51.3.4 native void parma_polyhedra_library::MIP_Problem::add_to_integer_space_dimensions (Variables_Set *i_vars*)

Sets the variables whose indexes are in set `i_vars` to be integer space dimensions.

Exceptions

std::invalid_argument Thrown if some index in `i_vars` does not correspond to a space dimension in `this`.

11.51.3.5 native String parma_polyhedra_library::MIP_Problem::ascii_dump ()

Returns an ascii formatted internal representation of `this`.

11.51.3.6 native void parma_polyhedra_library::MIP_Problem::build_cpp_object (MIP_Problem *y*) `[private]`

Builds the underlying C++ object.

11.51.3.7 native void parma_polyhedra_library::MIP_Problem::build_cpp_object (long *dim*, Constraint_System *cs*, Linear_Expression *obj*, Optimization_Mode *mode*) `[private]`

Builds the underlying C++ object.

11.51.3.8 native void parma_polyhedra_library::MIP_Problem::build_cpp_object (long *dim*) `[private]`

Builds the underlying C++ object.

Referenced by MIP_Problem().

11.51.3.9 native void parma_polyhedra_library::MIP_Problem::clear ()

Resets `this` to be equal to the trivial MIP problem.

The space dimension is reset to 0.

11.51.3.10 native Constraint_System parma_polyhedra_library::MIP_Problem::constraints ()

Returns the constraints .

11.51.3.11 native void parma_polyhedra_library::MIP_Problem::evaluate_objective_function (Generator *evaluating_point*, Coefficient *num*, Coefficient *den*)

Sets `num` and `den` so that $\frac{num}{den}$ is the result of evaluating the objective function on `evaluating_point`.

Parameters

evaluating_point The point on which the objective function will be evaluated.

num On exit will contain the numerator of the evaluated value.

den On exit will contain the denominator of the evaluated value.

Exceptions

std::invalid_argument Thrown if `this` and `evaluating_point` are dimension-incompatible or if the generator `evaluating_point` is not a point.

11.51.3.12 native Generator parma_polyhedra_library::MIP_Problem::feasible_point ()

Returns a feasible point for `*this`, if it exists.

Exceptions

std::domain_error Thrown if the MIP problem is not satisfiable.

11.51.3.13 native void parma_polyhedra_library::MIP_Problem::finalize () [protected]

Releases all resources managed by `this`.

11.51.3.14 native void parma_polyhedra_library::MIP_Problem::free ()

Releases all resources managed by `this`, also resetting it to a null reference.

11.51.3.15 native Control_Parameter_Value parma_polyhedra_library::MIP_Problem::get_control_parameter (Control_Parameter_Name *name*)

Returns the value of control parameter `name`.

11.51.3.16 native Variables_Set parma_polyhedra_library::MIP_Problem::integer_space_dimensions ()

Returns a set containing all the variables' indexes constrained to be integral.

11.51.3.17 native boolean parma_polyhedra_library::MIP_Problem::is_satisfiable ()

Checks satisfiability of `*this`.

Returns

`true` if and only if the MIP problem is satisfiable.

11.51.3.18 native long parma_polyhedra_library::MIP_Problem::max_space_dimension ()

Returns the maximum space dimension an MIP_Problem can handle.

11.51.3.19 native Linear_Expression parma_polyhedra_library::MIP_Problem::objective_function ()

Returns the objective function.

11.51.3.20 native boolean parma_polyhedra_library::MIP_Problem::OK ()

Checks if all the invariants are satisfied.

11.51.3.21 native void parma_polyhedra_library::MIP_Problem::optimal_value (Coefficient *num*, Coefficient *den*)

Sets `num` and `den` so that $\frac{num}{den}$ is the solution of the optimization problem.

Exceptions

std::domain_error Thrown if `*this` doesn't not have an optimizing point, i.e., if the MIP problem is unbounded or not satisfiable.

11.51.3.22 native Optimization_Mode parma_polyhedra_library::MIP_Problem::optimization_mode ()

Returns the optimization mode.

11.51.3.23 native Generator parma_polyhedra_library::MIP_Problem::optimizing_point ()

Returns an optimal point for `this`, if it exists.

Exceptions

std::domain_error Thrown if `this` doesn't not have an optimizing point, i.e., if the MIP problem is unbounded or not satisfiable.

11.51.3.24 native void parma_polyhedra_library::MIP_Problem::set_control_parameter (Control_Parameter_Value *value*)

Sets control parameter `value`.

11.51.3.25 native void parma_polyhedra_library::MIP_Problem::set_objective_function (Linear_Expression *obj*)

Sets the objective function to `obj`.

Exceptions

std::invalid_argument Thrown if the space dimension of `obj` is strictly greater than the space dimension of `this`.

11.51.3.26 native void parma_polyhedra_library::MIP_Problem::set_optimization_mode (Optimization_Mode *mode*)

Sets the optimization mode to `mode`.

11.51.3.27 native MIP_Problem_Status parma_polyhedra_library::MIP_Problem::solve ()

Optimizes the MIP problem.

Returns

An MIP_Problem_Status flag indicating the outcome of the optimization attempt (unfeasible, unbounded or optimized problem).

11.51.3.28 native long parma_polyhedra_library::MIP_Problem::space_dimension ()

Returns the space dimension of the MIP problem.

11.51.3.29 native String parma_polyhedra_library::MIP_Problem::toString ()

Returns a string representation of `this`.

11.51.3.30 native long parma_polyhedra_library::MIP_Problem::total_memory_in_bytes ()

Returns the total size in bytes of the memory occupied by the underlying C++ object.

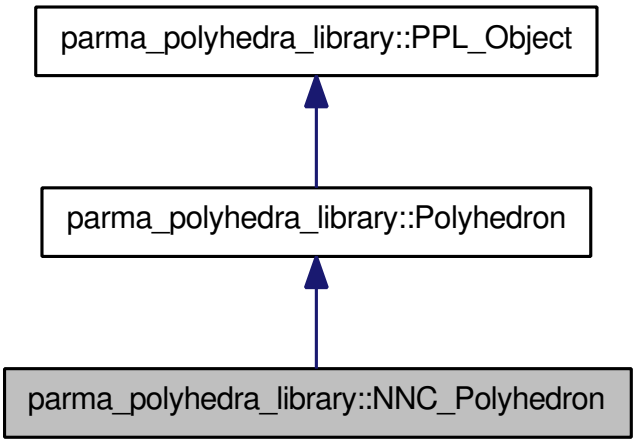
The documentation for this class was generated from the following file:

- MIP_Problem.java

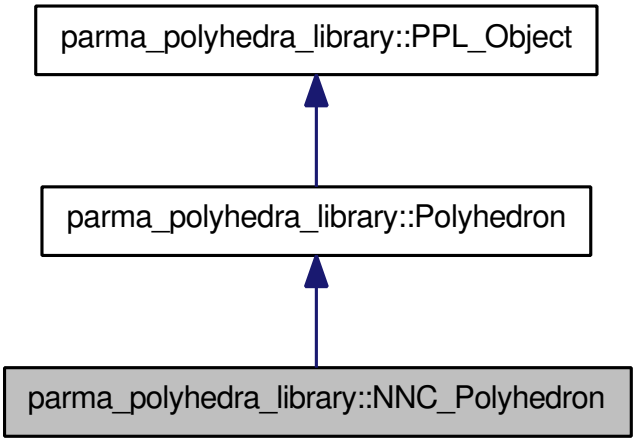
11.52 parma_polyhedra_library::NNC_Polyhedron Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::NNC_Polyhedron.

Inheritance diagram for parma_polyhedra_library::NNC_Polyhedron:



Collaboration diagram for parma_polyhedra_library::NNC_Polyhedron:



Public Member Functions

- NNC_Polyhedron (long num_dimensions, Degenerate_Element kind)
- NNC_Polyhedron (Int8_Box y)
- NNC_Polyhedron (Int16_Box y)
- NNC_Polyhedron (Int32_Box y)
- NNC_Polyhedron (Int64_Box y)
- NNC_Polyhedron (Uint8_Box y)
- NNC_Polyhedron (Uint16_Box y)
- NNC_Polyhedron (Uint32_Box y)
- NNC_Polyhedron (Uint64_Box y)
- NNC_Polyhedron (Z_Box y)
- NNC_Polyhedron (Rational_Box y)
- NNC_Polyhedron (BD_Shape_int8_t y)
- NNC_Polyhedron (BD_Shape_int16_t y)
- NNC_Polyhedron (BD_Shape_int32_t y)
- NNC_Polyhedron (BD_Shape_int64_t y)
- NNC_Polyhedron (BD_Shape_mpz_class y)
- NNC_Polyhedron (BD_Shape_mpq_class y)
- NNC_Polyhedron (Octagonal_Shape_int8_t y)
- NNC_Polyhedron (Octagonal_Shape_int16_t y)
- NNC_Polyhedron (Octagonal_Shape_int32_t y)
- NNC_Polyhedron (Octagonal_Shape_int64_t y)
- NNC_Polyhedron (Octagonal_Shape_mpz_class y)
- NNC_Polyhedron (Octagonal_Shape_mpq_class y)
- NNC_Polyhedron (C_Polyhedron y)
- NNC_Polyhedron (NNC_Polyhedron y)
- NNC_Polyhedron (Grid y)
- NNC_Polyhedron (Float_Box y)
- NNC_Polyhedron (BD_Shape_float y)
- NNC_Polyhedron (Octagonal_Shape_float y)
- NNC_Polyhedron (Double_Box y)
- NNC_Polyhedron (BD_Shape_double y)

- NNC_Polyhedron (Octagonal_Shape_double y)
- NNC_Polyhedron (Long_Double_Box y)
- NNC_Polyhedron (BD_Shape_long_double y)
- NNC_Polyhedron (Octagonal_Shape_long_double y)
- NNC_Polyhedron (Int8_Box y, Complexity_Class complexity)
- NNC_Polyhedron (Int16_Box y, Complexity_Class complexity)
- NNC_Polyhedron (Int32_Box y, Complexity_Class complexity)
- NNC_Polyhedron (Int64_Box y, Complexity_Class complexity)
- NNC_Polyhedron (Uint8_Box y, Complexity_Class complexity)
- NNC_Polyhedron (Uint16_Box y, Complexity_Class complexity)
- NNC_Polyhedron (Uint32_Box y, Complexity_Class complexity)
- NNC_Polyhedron (Uint64_Box y, Complexity_Class complexity)
- NNC_Polyhedron (Z_Box y, Complexity_Class complexity)
- NNC_Polyhedron (Rational_Box y, Complexity_Class complexity)
- NNC_Polyhedron (BD_Shape_int8_t y, Complexity_Class complexity)
- NNC_Polyhedron (BD_Shape_int16_t y, Complexity_Class complexity)
- NNC_Polyhedron (BD_Shape_int32_t y, Complexity_Class complexity)
- NNC_Polyhedron (BD_Shape_int64_t y, Complexity_Class complexity)
- NNC_Polyhedron (BD_Shape_mpz_class y, Complexity_Class complexity)
- NNC_Polyhedron (BD_Shape_mpq_class y, Complexity_Class complexity)
- NNC_Polyhedron (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- NNC_Polyhedron (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- NNC_Polyhedron (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- NNC_Polyhedron (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- NNC_Polyhedron (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- NNC_Polyhedron (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- NNC_Polyhedron (C_Polyhedron y, Complexity_Class complexity)
- NNC_Polyhedron (NNC_Polyhedron y, Complexity_Class complexity)
- NNC_Polyhedron (Grid y, Complexity_Class complexity)
- NNC_Polyhedron (Float_Box y, Complexity_Class complexity)
- NNC_Polyhedron (BD_Shape_float y, Complexity_Class complexity)
- NNC_Polyhedron (Octagonal_Shape_float y, Complexity_Class complexity)
- NNC_Polyhedron (Double_Box y, Complexity_Class complexity)
- NNC_Polyhedron (BD_Shape_double y, Complexity_Class complexity)
- NNC_Polyhedron (Octagonal_Shape_double y, Complexity_Class complexity)
- NNC_Polyhedron (Long_Double_Box y, Complexity_Class complexity)
- NNC_Polyhedron (BD_Shape_long_double y, Complexity_Class complexity)
- NNC_Polyhedron (Octagonal_Shape_long_double y, Complexity_Class complexity)
- NNC_Polyhedron (Constraint_System cs)
- NNC_Polyhedron (Congruence_System cs)
- NNC_Polyhedron (Generator_System cs)
- native boolean upper_bound_assign_if_exact (NNC_Polyhedron y)
- native boolean poly_hull_assign_if_exact (NNC_Polyhedron y)
- native void free ()

Static Public Member Functions

- static native Pair< NNC_Polyhedron, Pointset_Powerset_NNC_Polyhedron > linear_partition (NNC_Polyhedron p, NNC_Polyhedron q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- NNC_Polyhedron ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)

- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.52.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::NNC_Polyhedron.

Definition at line 30 of file NNC_Polyhedron.java.

11.52.2 Constructor & Destructor Documentation

11.52.2.1 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 38 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.2 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron () [inline, private]

Definition at line 43 of file NNC_Polyhedron.java.

11.52.2.3 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Int8_Box *y*) [inline]

Definition at line 50 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.4 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Int16_Box *y*) [inline]

Definition at line 54 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.5 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Int32_Box *y*) [inline]

Definition at line 58 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.6 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Int64_Box *y*) [inline]

Definition at line 62 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.7 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Uint8_Box *y*) [inline]

Definition at line 66 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.8 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Uint16_Box *y*) [inline]

Definition at line 70 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.9 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Uint32_Box *y*) [inline]

Definition at line 74 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.10 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Uint64_Box *y*) [inline]

Definition at line 78 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.11 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Z_Box *y*) [inline]

Definition at line 82 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.12 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Rational_Box *y*) [inline]

Definition at line 86 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.13 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (BD_Shape_int8_t *y*) [inline]

Definition at line 90 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.14 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (BD_Shape_int16_t *y*) [inline]

Definition at line 94 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.15 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (BD_Shape_int32_t *y*) [inline]

Definition at line 98 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.16 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (BD_Shape_int64_t *y*) [inline]

Definition at line 102 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.17 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (BD_Shape_mpz_class *y*) [inline]

Definition at line 106 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.18 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (BD_Shape_mpq_class *y*) [inline]

Definition at line 110 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.19 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 114 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.20 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 118 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.21 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 122 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.22 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 126 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.23 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 130 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.24 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 134 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.25 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (C_Polyhedron *y*) [inline]

Definition at line 138 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.26 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (NNC_Polyhedron *y*) [inline]

Definition at line 142 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.27 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Grid *y*) [inline]

Definition at line 146 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.28 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Float_Box *y*) [inline]

Definition at line 150 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.29 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (BD_Shape_float *y*) [inline]

Definition at line 154 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.30 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Octagonal_Shape_float *y*) [inline]

Definition at line 158 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.31 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Double_Box *y*) [inline]

Definition at line 162 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.32 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (BD_Shape_double *y*) [inline]

Definition at line 166 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.33 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Octagonal_Shape_double *y*) [inline]

Definition at line 170 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.34 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Long_Double_Box *y*) [inline]

Definition at line 174 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.35 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (BD_Shape_long_double *y*) [inline]

Definition at line 178 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.36 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Octagonal_Shape_long_double *y*) [inline]

Definition at line 182 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.37 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 191 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.38 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 195 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.39 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 199 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.40 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 203 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.41 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 207 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.42 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 211 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.43 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 215 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.44 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 219 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.45 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 223 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.46 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 227 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.47 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 231 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.48 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 235 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.49 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 239 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.50 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 243 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.51 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 247 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.52 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 251 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.53 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 255 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.54 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 259 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.55 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 263 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.56 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 267 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.57 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 271 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.58 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 275 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.59 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 279 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.60 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 283 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.61 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 287 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.62 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 291 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.63 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 295 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.64 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 299 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.65 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 303 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.66 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 307 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.67 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 311 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.68 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 315 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.69 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 319 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.70 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 323 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.71 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Constraint_System *cs*) [inline]

Definition at line 332 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.72 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Congruence_System *cs*) [inline]

Definition at line 336 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.2.73 parma_polyhedra_library::NNC_Polyhedron::NNC_Polyhedron (Generator_System *cs*) [inline]

Definition at line 340 of file NNC_Polyhedron.java.

References build_cpp_object().

11.52.3 Member Function Documentation

11.52.3.1 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.52.3.2 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Octagonal_Shape_long_double *y*) [private]

11.52.3.3 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.52.3.4 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (BD_Shape_long_double *y*) [private]

11.52.3.5 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.52.3.6 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Long_Double_Box *y*) [private]

11.52.3.7 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.52.3.8 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.52.3.9 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.52.3.10 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (BD_Shape_double *y*) [private]

11.52.3.11 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.52.3.12 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Double_Box *y*) [private]

11.52.3.13 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.52.3.14 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.52.3.15 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.52.3.16 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (BD_Shape_float *y*) [private]

11.52.3.17 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.52.3.18 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Float_Box *y*) [private]

11.52.3.19 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.52.3.20 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Grid *y*) [private]

11.52.3.21 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.52.3.22 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (NNC_Polyhedron *y*) [private]

11.52.3.23 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.52.3.24 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (C_Polyhedron *y*) [private]

11.52.3.25 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.52.3.26 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.52.3.27 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.52.3.28 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.52.3.29 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.52.3.30 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.52.3.31 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.52.3.32 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.52.3.33 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.52.3.34 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.52.3.35 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.52.3.36 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.52.3.37 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.52.3.38 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.52.3.39 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.52.3.40 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.52.3.41 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.52.3.42 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.52.3.43 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.52.3.44 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.52.3.45 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.52.3.46 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.52.3.47 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.52.3.48 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.52.3.49 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.52.3.50 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Rational_Box *y*) [private]

11.52.3.51 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.52.3.52 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Z_Box *y*) [private]

11.52.3.53 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.52.3.54 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Uint64_Box *y*) [private]

11.52.3.55 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.52.3.56 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Uint32_Box *y*) [private]

11.52.3.57 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.52.3.58 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Uint16_Box *y*) [private]

11.52.3.59 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.52.3.60 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Uint8_Box *y*) [private]

11.52.3.61 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.52.3.62 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Int64_Box *y*) [private]

11.52.3.63 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.52.3.64 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Int32_Box *y*) [private]

11.52.3.65 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.52.3.66 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Int16_Box *y*) [private]

11.52.3.67 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.52.3.68 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Int8_Box *y*) [private]

11.52.3.69 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.52.3.70 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Generator_System *cs*) [private]

11.52.3.71 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Congruence_System *cs*) [private]

11.52.3.72 native void parma_polyhedra_library::NNC_Polyhedron::build_cpp_object (Constraint_System *cs*) [private]

Referenced by NNC_Polyhedron().

11.52.3.73 native void parma_polyhedra_library::NNC_Polyhedron::finalize () [protected]

11.52.3.74 native void parma_polyhedra_library::NNC_Polyhedron::free ()

11.52.3.75 static native Pair<NNC_Polyhedron, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::NNC_Polyhedron::linear_partition (NNC_Polyhedron *p*, NNC_Polyhedron *q*) [static]

11.52.3.76 native boolean parma_polyhedra_library::NNC_Polyhedron::poly_hull_assign_if_exact (NNC_Polyhedron *y*)

11.52.3.77 native boolean parma_polyhedra_library::NNC_Polyhedron::upper_bound_assign_if_exact (NNC_Polyhedron *y*)

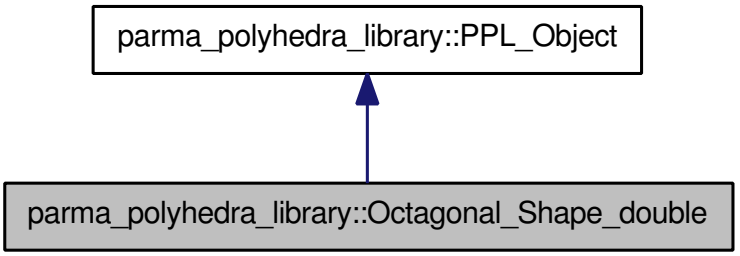
The documentation for this class was generated from the following file:

- NNC_Polyhedron.java

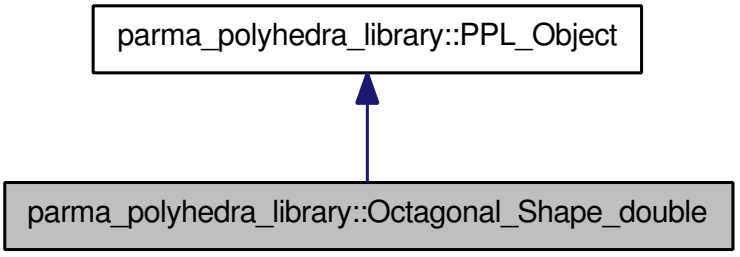
11.53 parma_polyhedra_library::Octagonal_Shape_double Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<double>

Inheritance diagram for parma_polyhedra_library::Octagonal_Shape_double:



Collaboration diagram for parma_polyhedra_library::Octagonal_Shape_double:



Public Member Functions

- Octagonal_Shape_double (long num_dimensions, Degenerate_Element kind)
- Octagonal_Shape_double (Int8_Box y)
- Octagonal_Shape_double (Int16_Box y)
- Octagonal_Shape_double (Int32_Box y)
- Octagonal_Shape_double (Int64_Box y)
- Octagonal_Shape_double (Uint8_Box y)
- Octagonal_Shape_double (Uint16_Box y)
- Octagonal_Shape_double (Uint32_Box y)
- Octagonal_Shape_double (Uint64_Box y)
- Octagonal_Shape_double (Z_Box y)
- Octagonal_Shape_double (Rational_Box y)
- Octagonal_Shape_double (BD_Shape_int8_t y)
- Octagonal_Shape_double (BD_Shape_int16_t y)
- Octagonal_Shape_double (BD_Shape_int32_t y)
- Octagonal_Shape_double (BD_Shape_int64_t y)
- Octagonal_Shape_double (BD_Shape_mpz_class y)
- Octagonal_Shape_double (BD_Shape_mpq_class y)
- Octagonal_Shape_double (Octagonal_Shape_int8_t y)
- Octagonal_Shape_double (Octagonal_Shape_int16_t y)
- Octagonal_Shape_double (Octagonal_Shape_int32_t y)
- Octagonal_Shape_double (Octagonal_Shape_int64_t y)
- Octagonal_Shape_double (Octagonal_Shape_mpz_class y)
- Octagonal_Shape_double (Octagonal_Shape_mpq_class y)
- Octagonal_Shape_double (C_Polyhedron y)
- Octagonal_Shape_double (NNC_Polyhedron y)
- Octagonal_Shape_double (Grid y)
- Octagonal_Shape_double (Float_Box y)
- Octagonal_Shape_double (BD_Shape_float y)
- Octagonal_Shape_double (Octagonal_Shape_float y)
- Octagonal_Shape_double (Double_Box y)
- Octagonal_Shape_double (BD_Shape_double y)
- Octagonal_Shape_double (Octagonal_Shape_double y)
- Octagonal_Shape_double (Long_Double_Box y)
- Octagonal_Shape_double (BD_Shape_long_double y)
- Octagonal_Shape_double (Octagonal_Shape_long_double y)
- Octagonal_Shape_double (Int8_Box y, Complexity_Class complexity)
- Octagonal_Shape_double (Int16_Box y, Complexity_Class complexity)
- Octagonal_Shape_double (Int32_Box y, Complexity_Class complexity)
- Octagonal_Shape_double (Int64_Box y, Complexity_Class complexity)
- Octagonal_Shape_double (Uint8_Box y, Complexity_Class complexity)
- Octagonal_Shape_double (Uint16_Box y, Complexity_Class complexity)
- Octagonal_Shape_double (Uint32_Box y, Complexity_Class complexity)
- Octagonal_Shape_double (Uint64_Box y, Complexity_Class complexity)
- Octagonal_Shape_double (Z_Box y, Complexity_Class complexity)
- Octagonal_Shape_double (Rational_Box y, Complexity_Class complexity)
- Octagonal_Shape_double (BD_Shape_int8_t y, Complexity_Class complexity)
- Octagonal_Shape_double (BD_Shape_int16_t y, Complexity_Class complexity)
- Octagonal_Shape_double (BD_Shape_int32_t y, Complexity_Class complexity)

- Octagonal_Shape_double (BD_Shape_int64_t y, Complexity_Class complexity)
- Octagonal_Shape_double (BD_Shape_mpz_class y, Complexity_Class complexity)
- Octagonal_Shape_double (BD_Shape_mpq_class y, Complexity_Class complexity)
- Octagonal_Shape_double (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Octagonal_Shape_double (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Octagonal_Shape_double (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Octagonal_Shape_double (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Octagonal_Shape_double (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Octagonal_Shape_double (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Octagonal_Shape_double (C_Polyhedron y, Complexity_Class complexity)
- Octagonal_Shape_double (NNC_Polyhedron y, Complexity_Class complexity)
- Octagonal_Shape_double (Grid y, Complexity_Class complexity)
- Octagonal_Shape_double (Float_Box y, Complexity_Class complexity)
- Octagonal_Shape_double (BD_Shape_float y, Complexity_Class complexity)
- Octagonal_Shape_double (Octagonal_Shape_float y, Complexity_Class complexity)
- Octagonal_Shape_double (Double_Box y, Complexity_Class complexity)
- Octagonal_Shape_double (BD_Shape_double y, Complexity_Class complexity)
- Octagonal_Shape_double (Octagonal_Shape_double y, Complexity_Class complexity)
- Octagonal_Shape_double (Long_Double_Box y, Complexity_Class complexity)
- Octagonal_Shape_double (BD_Shape_long_double y, Complexity_Class complexity)
- Octagonal_Shape_double (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Octagonal_Shape_double (Constraint_System cs)
- Octagonal_Shape_double (Congruence_System cs)
- Octagonal_Shape_double (Generator_System cs)
- native void swap (Octagonal_Shape_double y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)

- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Octagonal_Shape_double y)
- native boolean strictly_contains (Octagonal_Shape_double y)
- native boolean is_disjoint_from (Octagonal_Shape_double y)
- native boolean equals (Octagonal_Shape_double p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Octagonal_Shape_double p)
- native void upper_bound_assign (Octagonal_Shape_double p)
- native void difference_assign (Octagonal_Shape_double p)
- native void concatenate_assign (Octagonal_Shape_double p)
- native void time_elapse_assign (Octagonal_Shape_double p)
- native boolean upper_bound_assign_if_exact (Octagonal_Shape_double y)
- native boolean simplify_using_context_assign (Octagonal_Shape_double p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)

- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void BHMZ05_widening_assign (Octagonal_Shape_double y, By_Reference< Integer > tp)
- native void widening_assign (Octagonal_Shape_double y, By_Reference< Integer > tp)
- native void limited_BHMZ05_extrapolation_assign (Octagonal_Shape_double y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Octagonal_Shape_double y, Constraint_System cs, By_Reference< Integer > tp)
- native void CC76_extrapolation_assign (Octagonal_Shape_double arg, By_Reference< Integer > tp)
- native void CC76_narrowing_assign (Octagonal_Shape_double arg)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native int hashCode ()
- native String toString ()

Static Public Member Functions

- static native Pair< Octagonal_Shape_double, Pointset_Powerset_NNC_Polyhedron > linear_partition (Octagonal_Shape_double p, Octagonal_Shape_double q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Octagonal_Shape_double ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)

- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.53.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<double>

Definition at line 33 of file Octagonal_Shape_double.java.

11.53.2 Constructor & Destructor Documentation

11.53.2.1 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.2 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double () [inline, private]

Definition at line 45 of file Octagonal_Shape_double.java.

11.53.2.3 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Int8_Box *y*) [inline]

Definition at line 52 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.4 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Int16_Box *y*) [inline]

Definition at line 56 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.5 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Int32_Box *y*) [inline]

Definition at line 60 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.6 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Int64_Box *y*) [inline]

Definition at line 64 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.7 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Uint8_Box *y*) [inline]

Definition at line 68 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.8 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Uint16_Box *y*) [inline]

Definition at line 72 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.9 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Uint32_Box *y*) [inline]

Definition at line 76 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.10 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Uint64_Box *y*) [inline]

Definition at line 80 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.11 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Z_Box *y*) [inline]

Definition at line 84 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.12 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Rational_Box *y*) [inline]

Definition at line 88 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.13 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.14 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.15 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.16 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.17 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.18 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.19 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.20 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.21 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.22 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.23 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.24 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.25 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (C_Polyhedron *y*) [inline]

Definition at line 140 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.26 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.27 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Grid *y*) [inline]

Definition at line 148 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.28 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Float_Box *y*) [inline]

Definition at line 152 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.29 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (BD_Shape_float *y*) [inline]

Definition at line 156 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.30 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.31 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Double_Box *y*) [inline]

Definition at line 164 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.32 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (BD_Shape_double *y*) [inline]

Definition at line 168 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.33 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.34 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Long_Double_Box *y*) [inline]

Definition at line 176 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.35 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.36 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.37 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.38 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.39 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.40 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.41 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.42 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.43 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.44 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.45 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.46 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.47 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.48 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.49 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.50 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.51 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.52 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.53 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.54 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.55 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.56 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.57 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.58 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.59 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.60 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.61 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.62 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.63 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.64 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.65 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.66 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.67 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.68 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.69 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.70 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.71 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Constraint_System *cs*) [inline]

Definition at line 334 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.72 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Congruence_System *cs*) [inline]

Definition at line 338 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.2.73 parma_polyhedra_library::Octagonal_Shape_double::Octagonal_Shape_double (Generator_System *cs*) [inline]

Definition at line 342 of file Octagonal_Shape_double.java.

References build_cpp_object().

11.53.3 Member Function Documentation

11.53.3.1 native void parma_polyhedra_library::Octagonal_Shape_double::add_congruence (Congruence *c*)

11.53.3.2 native void parma_polyhedra_library::Octagonal_Shape_double::add_congruences (Congruence_System *c*)

11.53.3.3 native void parma_polyhedra_library::Octagonal_Shape_double::add_constraint (Constraint *c*)

11.53.3.4 native void parma_polyhedra_library::Octagonal_Shape_double::add_constraints (Constraint_System *c*)

11.53.3.5 native void parma_polyhedra_library::Octagonal_Shape_double::add_space_dimensions_and_embed (long *m*)

11.53.3.6 native void parma_polyhedra_library::Octagonal_Shape_double::add_space_dimensions_and_project (long *m*)

11.53.3.7 native long parma_polyhedra_library::Octagonal_Shape_double::affine_dimension ()

11.53.3.8 native void parma_polyhedra_library::Octagonal_Shape_double::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.53.3.9 native void parma_polyhedra_library::Octagonal_Shape_double::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.53.3.10 native String parma_polyhedra_library::Octagonal_Shape_double::ascii_dump ()

11.53.3.11 native void parma_polyhedra_library::Octagonal_Shape_double::BHMZ05_-widening_assign (Octagonal_Shape_double *y*, By_Reference< Integer > *tp*)

11.53.3.12 native void parma_polyhedra_library::Octagonal_Shape_double::bounded_affine_-image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.53.3.13 native void parma_polyhedra_library::Octagonal_Shape_double::bounded_affine_-preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.53.3.14 native boolean parma_polyhedra_library::Octagonal_Shape_double::bounds_from_-above (Linear_Expression *expr*)

11.53.3.15 native boolean parma_polyhedra_library::Octagonal_Shape_double::bounds_from_-below (Linear_Expression *expr*)

11.53.3.16 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.53.3.17 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.53.3.18 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.53.3.19 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (BD_Shape_long_double *y*) [private]

11.53.3.20 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.53.3.21 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Long_Double_Box *y*) [private]

11.53.3.22 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.53.3.23 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.53.3.24 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.53.3.25 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (BD_Shape_double *y*) [private]

11.53.3.26 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.53.3.27 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Double_Box *y*) [private]

11.53.3.28 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.53.3.29 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.53.3.30 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.53.3.31 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (BD_Shape_float *y*) [private]

11.53.3.32 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.53.3.33 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Float_Box *y*) [private]

11.53.3.34 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.53.3.35 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Grid *y*) [private]

11.53.3.36 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.53.3.37 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (NNC_Polyhedron *y*) [private]

11.53.3.38 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.53.3.39 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (C_Polyhedron *y*) [private]

11.53.3.40 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.53.3.41 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.53.3.42 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.53.3.43 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.53.3.44 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.53.3.45 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.53.3.46 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.53.3.47 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.53.3.48 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.53.3.49 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.53.3.50 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.53.3.51 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.53.3.52 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.53.3.53 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.53.3.54 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.53.3.55 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.53.3.56 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.53.3.57 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.53.3.58 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.53.3.59 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.53.3.60 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.53.3.61 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.53.3.62 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.53.3.63 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.53.3.64 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.53.3.65 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Rational_Box *y*) [private]

11.53.3.66 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.53.3.67 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Z_Box *y*) [private]

11.53.3.68 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.53.3.69 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Uint64_Box *y*) [private]

11.53.3.70 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.53.3.71 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Uint32_Box *y*) [private]

11.53.3.72 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.53.3.73 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Uint16_Box *y*) [private]

11.53.3.74 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.53.3.75 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Uint8_Box *y*) [private]

11.53.3.76 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.53.3.77 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Int64_Box *y*) [private]

11.53.3.78 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.53.3.79 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Int32_Box *y*) [private]

11.53.3.80 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.53.3.81 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Int16_Box *y*) [private]

11.53.3.82 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.53.3.83 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Int8_Box *y*) [private]

11.53.3.84 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.53.3.85 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Generator_System *cs*) [private]

11.53.3.86 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Congruence_System *cs*) [private]

11.53.3.87 native void parma_polyhedra_library::Octagonal_Shape_double::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Octagonal_Shape_double().

11.53.3.88 native void parma_polyhedra_library::Octagonal_Shape_double::CC76_-extrapolation_assign (Octagonal_Shape_double *arg*, By_Reference< Integer > *tp*)

11.53.3.89 native void parma_polyhedra_library::Octagonal_Shape_double::CC76_narrowing_-assign (Octagonal_Shape_double *arg*)

11.53.3.90 native void parma_polyhedra_library::Octagonal_Shape_double::concatenate_assign (Octagonal_Shape_double *p*)

11.53.3.91 native Congruence_System parma_polyhedra_library::Octagonal_Shape_double::congruences ()

11.53.3.92 native boolean parma_polyhedra_library::Octagonal_Shape_double::constrains (Variable *var*)

11.53.3.93 native Constraint_System parma_polyhedra_library::Octagonal_Shape_double::constraints ()

11.53.3.94 native boolean parma_polyhedra_library::Octagonal_Shape_double::contains (Octagonal_Shape_double *y*)

11.53.3.95 native boolean parma_polyhedra_library::Octagonal_Shape_double::contains_integer_point ()

11.53.3.96 native void parma_polyhedra_library::Octagonal_Shape_double::difference_assign (Octagonal_Shape_double *p*)

11.53.3.97 native void parma_polyhedra_library::Octagonal_Shape_double::drop_some_non_integer_points (Integer *complexity_threshold*)

11.53.3.98 native void parma_polyhedra_library::Octagonal_Shape_double::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.53.3.99 boolean parma_polyhedra_library::Octagonal_Shape_double::equals (Object *y*) [inline]

Definition at line 465 of file Octagonal_Shape_double.java.

References equals().

11.53.3.100 native boolean parma_polyhedra_library::Octagonal_Shape_double::equals (Octagonal_Shape_double *p*)

Referenced by equals().

11.53.3.101 native void parma_polyhedra_library::Octagonal_Shape_double::expand_space_dimension (Variable *var*, long *m*)

11.53.3.102 native long parma_polyhedra_library::Octagonal_Shape_double::external_memory_in_bytes ()

11.53.3.103 native void parma_polyhedra_library::Octagonal_Shape_double::finalize () [protected]

11.53.3.104 native void parma_polyhedra_library::Octagonal_Shape_double::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.53.3.105 native void parma_polyhedra_library::Octagonal_Shape_double::free ()

11.53.3.106 native boolean parma_polyhedra_library::Octagonal_Shape_double::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.53.3.107 native void parma_polyhedra_library::Octagonal_Shape_double::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.53.3.108 native void parma_polyhedra_library::Octagonal_Shape_double::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.53.3.109 native void parma_polyhedra_library::Octagonal_Shape_double::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.53.3.110 native void parma_polyhedra_library::Octagonal_Shape_double::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.53.3.111 native int parma_polyhedra_library::Octagonal_Shape_double::hashCode ()

11.53.3.112 native void parma_polyhedra_library::Octagonal_Shape_double::intersection_assign (Octagonal_Shape_double *p*)

11.53.3.113 native boolean parma_polyhedra_library::Octagonal_Shape_double::is_bounded ()

11.53.3.114 native boolean parma_polyhedra_library::Octagonal_Shape_double::is_discrete ()

11.53.3.115 native boolean parma_polyhedra_library::Octagonal_Shape_double::is_disjoint_from (Octagonal_Shape_double *y*)

11.53.3.116 native boolean parma_polyhedra_library::Octagonal_Shape_double::is_empty ()

11.53.3.117 native boolean parma_polyhedra_library::Octagonal_Shape_double::is_topologically_closed ()

11.53.3.118 native boolean parma_polyhedra_library::Octagonal_Shape_double::is_universe ()

11.53.3.119 native void parma_polyhedra_library::Octagonal_Shape_double::limited_BHMZ05_extrapolation_assign (Octagonal_Shape_double *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.53.3.120 native void parma_polyhedra_library::Octagonal_Shape_double::limited_CC76_extrapolation_assign (Octagonal_Shape_double *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.53.3.121 static native Pair<Octagonal_Shape_double, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Octagonal_Shape_double::linear_partition (Octagonal_Shape_double *p*, Octagonal_Shape_double *q*) `[static]`

11.53.3.122 native void parma_polyhedra_library::Octagonal_Shape_double::map_space_dimensions (Partial_Function *pfunc*)

11.53.3.123 native boolean parma_polyhedra_library::Octagonal_Shape_double::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.53.3.124 native boolean parma_polyhedra_library::Octagonal_Shape_double::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.53.3.125 native boolean parma_polyhedra_library::Octagonal_Shape_double::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.53.3.126 native boolean parma_polyhedra_library::Octagonal_Shape_double::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.53.3.127 native Congruence_System parma_polyhedra_library::Octagonal_Shape_double::minimized_congruences ()

11.53.3.128 native Constraint_System parma_polyhedra_library::Octagonal_Shape_double::minimized_constraints ()

11.53.3.129 native boolean parma_polyhedra_library::Octagonal_Shape_double::OK ()

11.53.3.130 native void parma_polyhedra_library::Octagonal_Shape_double::refine_with_congruence (Congruence *c*)

11.53.3.131 native void parma_polyhedra_library::Octagonal_Shape_double::refine_with_congruences (Congruence_System *c*)

11.53.3.132 native void parma_polyhedra_library::Octagonal_Shape_double::refine_with_constraint (Constraint *c*)

11.53.3.133 native void parma_polyhedra_library::Octagonal_Shape_double::refine_with_constraints (Constraint_System *c*)

11.53.3.134 native Poly_Con_Relation parma_polyhedra_library::Octagonal_Shape_-double::relation_with (Congruence *c*)

11.53.3.135 native Poly_Gen_Relation parma_polyhedra_library::Octagonal_Shape_-double::relation_with (Generator *c*)

11.53.3.136 native Poly_Con_Relation parma_polyhedra_library::Octagonal_Shape_-double::relation_with (Constraint *c*)

11.53.3.137 native void parma_polyhedra_library::Octagonal_Shape_double::remove_higher_-space_dimensions (long *new_dimension*)

11.53.3.138 native void parma_polyhedra_library::Octagonal_Shape_double::remove_space_-dimensions (Variables_Set *vars*)

11.53.3.139 native boolean parma_polyhedra_library::Octagonal_Shape_-double::simplify_using_context_assign (Octagonal_Shape_double *p*)

11.53.3.140 native long parma_polyhedra_library::Octagonal_Shape_double::space_dimension ()

11.53.3.141 native boolean parma_polyhedra_library::Octagonal_Shape_double::strictly_-contains (Octagonal_Shape_double *y*)

11.53.3.142 native void parma_polyhedra_library::Octagonal_Shape_double::swap (Octagonal_Shape_double *y*)

11.53.3.143 native void parma_polyhedra_library::Octagonal_Shape_double::time_elapse_assign (Octagonal_Shape_double *p*)

11.53.3.144 native void parma_polyhedra_library::Octagonal_Shape_double::topological_closure_assign ()

11.53.3.145 native String parma_polyhedra_library::Octagonal_Shape_double::toString ()

11.53.3.146 native long parma_polyhedra_library::Octagonal_Shape_double::total_memory_in_bytes ()

11.53.3.147 native void parma_polyhedra_library::Octagonal_Shape_double::unconstrain_space_dimension (Variable *var*)

11.53.3.148 native void parma_polyhedra_library::Octagonal_Shape_double::unconstrain_space_dimensions (Variables_Set *vars*)

11.53.3.149 native void parma_polyhedra_library::Octagonal_Shape_double::upper_bound_assign (Octagonal_Shape_double *p*)

11.53.3.150 native boolean parma_polyhedra_library::Octagonal_Shape_double::upper_bound_assign_if_exact (Octagonal_Shape_double *y*)

11.53.3.151 native void parma_polyhedra_library::Octagonal_Shape_double::widening_assign (Octagonal_Shape_double *y*, By_Reference< Integer > *tp*)

11.53.3.152 native void parma_polyhedra_library::Octagonal_Shape_double::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

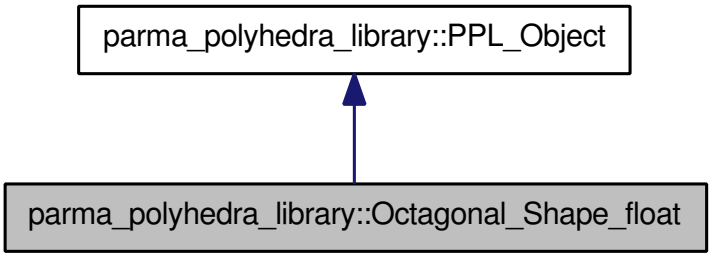
The documentation for this class was generated from the following file:

- Octagonal_Shape_double.java

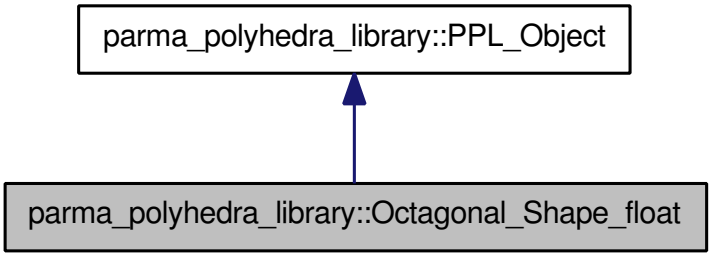
11.54 parma_polyhedra_library::Octagonal_Shape_float Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<float>

Inheritance diagram for parma_polyhedra_library::Octagonal_Shape_float:



Collaboration diagram for parma_polyhedra_library::Octagonal_Shape_float:



Public Member Functions

- Octagonal_Shape_float (long num_dimensions, Degenerate_Element kind)
- Octagonal_Shape_float (Int8_Box y)
- Octagonal_Shape_float (Int16_Box y)
- Octagonal_Shape_float (Int32_Box y)
- Octagonal_Shape_float (Int64_Box y)
- Octagonal_Shape_float (Uint8_Box y)
- Octagonal_Shape_float (Uint16_Box y)
- Octagonal_Shape_float (Uint32_Box y)
- Octagonal_Shape_float (Uint64_Box y)
- Octagonal_Shape_float (Z_Box y)

- Octagonal_Shape_float (Rational_Box y)
- Octagonal_Shape_float (BD_Shape_int8_t y)
- Octagonal_Shape_float (BD_Shape_int16_t y)
- Octagonal_Shape_float (BD_Shape_int32_t y)
- Octagonal_Shape_float (BD_Shape_int64_t y)
- Octagonal_Shape_float (BD_Shape_mpz_class y)
- Octagonal_Shape_float (BD_Shape_mpq_class y)
- Octagonal_Shape_float (Octagonal_Shape_int8_t y)
- Octagonal_Shape_float (Octagonal_Shape_int16_t y)
- Octagonal_Shape_float (Octagonal_Shape_int32_t y)
- Octagonal_Shape_float (Octagonal_Shape_int64_t y)
- Octagonal_Shape_float (Octagonal_Shape_mpz_class y)
- Octagonal_Shape_float (Octagonal_Shape_mpq_class y)
- Octagonal_Shape_float (C_Polyhedron y)
- Octagonal_Shape_float (NNC_Polyhedron y)
- Octagonal_Shape_float (Grid y)
- Octagonal_Shape_float (Float_Box y)
- Octagonal_Shape_float (BD_Shape_float y)
- Octagonal_Shape_float (Octagonal_Shape_float y)
- Octagonal_Shape_float (Double_Box y)
- Octagonal_Shape_float (BD_Shape_double y)
- Octagonal_Shape_float (Octagonal_Shape_double y)
- Octagonal_Shape_float (Long_Double_Box y)
- Octagonal_Shape_float (BD_Shape_long_double y)
- Octagonal_Shape_float (Octagonal_Shape_long_double y)
- Octagonal_Shape_float (Int8_Box y, Complexity_Class complexity)
- Octagonal_Shape_float (Int16_Box y, Complexity_Class complexity)
- Octagonal_Shape_float (Int32_Box y, Complexity_Class complexity)
- Octagonal_Shape_float (Int64_Box y, Complexity_Class complexity)
- Octagonal_Shape_float (Uint8_Box y, Complexity_Class complexity)
- Octagonal_Shape_float (Uint16_Box y, Complexity_Class complexity)
- Octagonal_Shape_float (Uint32_Box y, Complexity_Class complexity)
- Octagonal_Shape_float (Uint64_Box y, Complexity_Class complexity)
- Octagonal_Shape_float (Z_Box y, Complexity_Class complexity)
- Octagonal_Shape_float (Rational_Box y, Complexity_Class complexity)
- Octagonal_Shape_float (BD_Shape_int8_t y, Complexity_Class complexity)
- Octagonal_Shape_float (BD_Shape_int16_t y, Complexity_Class complexity)
- Octagonal_Shape_float (BD_Shape_int32_t y, Complexity_Class complexity)
- Octagonal_Shape_float (BD_Shape_int64_t y, Complexity_Class complexity)
- Octagonal_Shape_float (BD_Shape_mpz_class y, Complexity_Class complexity)
- Octagonal_Shape_float (BD_Shape_mpq_class y, Complexity_Class complexity)
- Octagonal_Shape_float (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Octagonal_Shape_float (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Octagonal_Shape_float (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Octagonal_Shape_float (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Octagonal_Shape_float (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Octagonal_Shape_float (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Octagonal_Shape_float (C_Polyhedron y, Complexity_Class complexity)
- Octagonal_Shape_float (NNC_Polyhedron y, Complexity_Class complexity)
- Octagonal_Shape_float (Grid y, Complexity_Class complexity)

- Octagonal_Shape_float (Float_Box y, Complexity_Class complexity)
- Octagonal_Shape_float (BD_Shape_float y, Complexity_Class complexity)
- Octagonal_Shape_float (Octagonal_Shape_float y, Complexity_Class complexity)
- Octagonal_Shape_float (Double_Box y, Complexity_Class complexity)
- Octagonal_Shape_float (BD_Shape_double y, Complexity_Class complexity)
- Octagonal_Shape_float (Octagonal_Shape_double y, Complexity_Class complexity)
- Octagonal_Shape_float (Long_Double_Box y, Complexity_Class complexity)
- Octagonal_Shape_float (BD_Shape_long_double y, Complexity_Class complexity)
- Octagonal_Shape_float (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Octagonal_Shape_float (Constraint_System cs)
- Octagonal_Shape_float (Congruence_System cs)
- Octagonal_Shape_float (Generator_System cs)
- native void swap (Octagonal_Shape_float y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Octagonal_Shape_float y)
- native boolean strictly_contains (Octagonal_Shape_float y)
- native boolean is_disjoint_from (Octagonal_Shape_float y)
- native boolean equals (Octagonal_Shape_float p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)

- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Octagonal_Shape_float p)
- native void upper_bound_assign (Octagonal_Shape_float p)
- native void difference_assign (Octagonal_Shape_float p)
- native void concatenate_assign (Octagonal_Shape_float p)
- native void time_elapse_assign (Octagonal_Shape_float p)
- native boolean upper_bound_assign_if_exact (Octagonal_Shape_float y)
- native boolean simplify_using_context_assign (Octagonal_Shape_float p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void BHMZ05_widening_assign (Octagonal_Shape_float y, By_Reference< Integer > tp)
- native void widening_assign (Octagonal_Shape_float y, By_Reference< Integer > tp)
- native void limited_BHMZ05_extrapolation_assign (Octagonal_Shape_float y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Octagonal_Shape_float y, Constraint_System cs, By_Reference< Integer > tp)
- native void CC76_extrapolation_assign (Octagonal_Shape_float arg, By_Reference< Integer > tp)
- native void CC76_narrowing_assign (Octagonal_Shape_float arg)

- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native int hashCode ()
- native String toString ()

Static Public Member Functions

- static native Pair< Octagonal_Shape_float, Pointset_Powerset_NNC_Polyhedron > linear_partition (Octagonal_Shape_float p, Octagonal_Shape_float q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Octagonal_Shape_float ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)

- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.54.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<float>

Definition at line 33 of file Octagonal_Shape_float.java.

11.54.2 Constructor & Destructor Documentation

11.54.2.1 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.2 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float () [inline, private]

Definition at line 45 of file Octagonal_Shape_float.java.

11.54.2.3 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Int8_Box *y*) [inline]

Definition at line 52 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.4 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Int16_Box *y*) [inline]

Definition at line 56 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.5 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Int32_Box *y*) [inline]

Definition at line 60 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.6 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Int64_Box *y*) [inline]

Definition at line 64 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.7 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Uint8_Box *y*) [inline]

Definition at line 68 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.8 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Uint16_Box *y*) [inline]

Definition at line 72 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.9 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Uint32_Box *y*) [inline]

Definition at line 76 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.10 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Uint64_Box *y*) [inline]

Definition at line 80 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.11 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Z_Box *y*) [inline]

Definition at line 84 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.12 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Rational_Box *y*) [inline]

Definition at line 88 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.13 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.14 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.15 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.16 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.17 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.18 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.19 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.20 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.21 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.22 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.23 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.24 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.25 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (C_Polyhedron *y*) [inline]

Definition at line 140 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.26 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.27 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Grid *y*) [inline]

Definition at line 148 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.28 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Float_Box *y*) [inline]

Definition at line 152 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.29 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (BD_Shape_float *y*) [inline]

Definition at line 156 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.30 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.31 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Double_Box *y*) [inline]

Definition at line 164 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.32 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (BD_Shape_double *y*) [inline]

Definition at line 168 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.33 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.34 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Long_Double_Box *y*) [inline]

Definition at line 176 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.35 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.36 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.37 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.38 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.39 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.40 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.41 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.42 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.43 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.44 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.45 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.46 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.47 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.48 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.49 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.50 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.51 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.52 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.53 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.54 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.55 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.56 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.57 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.58 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.59 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.60 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.61 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.62 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.63 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.64 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.65 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.66 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.67 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.68 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.69 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.70 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.71 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Constraint_System *cs*) [inline]

Definition at line 334 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.72 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Congruence_System *cs*) [inline]

Definition at line 338 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.2.73 parma_polyhedra_library::Octagonal_Shape_float::Octagonal_Shape_float (Generator_System *cs*) [inline]

Definition at line 342 of file Octagonal_Shape_float.java.

References build_cpp_object().

11.54.3 Member Function Documentation

11.54.3.1 native void parma_polyhedra_library::Octagonal_Shape_float::add_congruence (Congruence *c*)

11.54.3.2 native void parma_polyhedra_library::Octagonal_Shape_float::add_congruences (Congruence_System *c*)

11.54.3.3 native void parma_polyhedra_library::Octagonal_Shape_float::add_constraint (Constraint *c*)

11.54.3.4 native void parma_polyhedra_library::Octagonal_Shape_float::add_constraints (Constraint_System *c*)

11.54.3.5 native void parma_polyhedra_library::Octagonal_Shape_float::add_space_dimensions_and_embed (long *m*)

11.54.3.6 native void parma_polyhedra_library::Octagonal_Shape_float::add_space_dimensions_and_project (long *m*)

11.54.3.7 native long parma_polyhedra_library::Octagonal_Shape_float::affine_dimension ()

11.54.3.8 native void parma_polyhedra_library::Octagonal_Shape_float::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.54.3.9 native void parma_polyhedra_library::Octagonal_Shape_float::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.54.3.10 native String parma_polyhedra_library::Octagonal_Shape_float::ascii_dump ()

11.54.3.11 native void parma_polyhedra_library::Octagonal_Shape_float::BHMZ05_-widening_assign (Octagonal_Shape_float *y*, By_Reference< Integer > *tp*)

11.54.3.12 native void parma_polyhedra_library::Octagonal_Shape_float::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.54.3.13 native void parma_polyhedra_library::Octagonal_Shape_float::bounded_affine_-preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.54.3.14 native boolean parma_polyhedra_library::Octagonal_Shape_float::bounds_from_-above (Linear_Expression *expr*)

11.54.3.15 native boolean parma_polyhedra_library::Octagonal_Shape_float::bounds_from_-below (Linear_Expression *expr*)

11.54.3.16 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.54.3.17 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.54.3.18 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.54.3.19 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (BD_Shape_long_double *y*) [private]

11.54.3.20 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.54.3.21 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Long_Double_Box *y*) [private]

11.54.3.22 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.54.3.23 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.54.3.24 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.54.3.25 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (BD_Shape_double *y*) [private]

11.54.3.26 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.54.3.27 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Double_Box *y*) [private]

11.54.3.28 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.54.3.29 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.54.3.30 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.54.3.31 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (BD_Shape_float *y*) [private]

11.54.3.32 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.54.3.33 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Float_Box *y*) [private]

11.54.3.34 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.54.3.35 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Grid *y*) [private]

11.54.3.36 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.54.3.37 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (NNC_Polyhedron *y*) [private]

11.54.3.38 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.54.3.39 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (C_Polyhedron *y*) [private]

11.54.3.40 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.54.3.41 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.54.3.42 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.54.3.43 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.54.3.44 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.54.3.45 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.54.3.46 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.54.3.47 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.54.3.48 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.54.3.49 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.54.3.50 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.54.3.51 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.54.3.52 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.54.3.53 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.54.3.54 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.54.3.55 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.54.3.56 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.54.3.57 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.54.3.58 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.54.3.59 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.54.3.60 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.54.3.61 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.54.3.62 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.54.3.63 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.54.3.64 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.54.3.65 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Rational_Box *y*) [private]

11.54.3.66 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.54.3.67 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Z_Box *y*) [private]

11.54.3.68 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.54.3.69 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Uint64_Box *y*) [private]

11.54.3.70 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.54.3.71 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Uint32_Box *y*) [private]

11.54.3.72 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.54.3.73 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Uint16_Box *y*) [private]

11.54.3.74 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.54.3.75 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Uint8_Box *y*) [private]

11.54.3.76 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.54.3.77 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Int64_Box *y*) [private]

11.54.3.78 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.54.3.79 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Int32_Box *y*) [private]

11.54.3.80 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.54.3.81 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Int16_Box *y*) [private]

11.54.3.82 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.54.3.83 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Int8_Box *y*) [private]

11.54.3.84 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.54.3.85 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Generator_System *cs*) [private]

11.54.3.86 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Congruence_System *cs*) [private]

11.54.3.87 native void parma_polyhedra_library::Octagonal_Shape_float::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Octagonal_Shape_float().

11.54.3.88 native void parma_polyhedra_library::Octagonal_Shape_float::CC76_-extrapolation_assign (Octagonal_Shape_float *arg*, By_Reference< Integer > *tp*)

11.54.3.89 native void parma_polyhedra_library::Octagonal_Shape_float::CC76_narrowing_-assign (Octagonal_Shape_float *arg*)

11.54.3.90 native void parma_polyhedra_library::Octagonal_Shape_float::concatenate_assign (Octagonal_Shape_float *p*)

11.54.3.91 native Congruence_System parma_polyhedra_library::Octagonal_Shape_-float::congruences ()

11.54.3.92 native boolean parma_polyhedra_library::Octagonal_Shape_float::constrains (Variable *var*)

11.54.3.93 native Constraint_System parma_polyhedra_library::Octagonal_Shape_-float::constraints ()

11.54.3.94 native boolean parma_polyhedra_library::Octagonal_Shape_float::contains (Octagonal_Shape_float *y*)

11.54.3.95 native boolean parma_polyhedra_library::Octagonal_Shape_float::contains_integer_-point ()

11.54.3.96 native void parma_polyhedra_library::Octagonal_Shape_float::difference_assign (Octagonal_Shape_float *p*)

11.54.3.97 native void parma_polyhedra_library::Octagonal_Shape_float::drop_some_non_-integer_points (Integer *complexity_threshold*)

11.54.3.98 native void parma_polyhedra_library::Octagonal_Shape_float::drop_some_non_-integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.54.3.99 boolean parma_polyhedra_library::Octagonal_Shape_float::equals (Object *y*) [inline]

Definition at line 465 of file Octagonal_Shape_float.java.

References equals().

11.54.3.100 native boolean parma_polyhedra_library::Octagonal_Shape_float::equals (Octagonal_Shape_float *p*)

Referenced by equals().

11.54.3.101 native void parma_polyhedra_library::Octagonal_Shape_float::expand_space_dimension (Variable *var*, long *m*)

11.54.3.102 native long parma_polyhedra_library::Octagonal_Shape_float::external_memory_in_bytes ()

11.54.3.103 native void parma_polyhedra_library::Octagonal_Shape_float::finalize () [protected]

11.54.3.104 native void parma_polyhedra_library::Octagonal_Shape_float::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.54.3.105 native void parma_polyhedra_library::Octagonal_Shape_float::free ()

11.54.3.106 native boolean parma_polyhedra_library::Octagonal_Shape_float::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.54.3.107 native void parma_polyhedra_library::Octagonal_Shape_float::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.54.3.108 native void parma_polyhedra_library::Octagonal_Shape_float::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.54.3.109 native void parma_polyhedra_library::Octagonal_Shape_float::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.54.3.110 native void parma_polyhedra_library::Octagonal_Shape_float::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.54.3.111 native int parma_polyhedra_library::Octagonal_Shape_float::hashCode ()

11.54.3.112 native void parma_polyhedra_library::Octagonal_Shape_float::intersection_assign (Octagonal_Shape_float *p*)

11.54.3.113 native boolean parma_polyhedra_library::Octagonal_Shape_float::is_bounded ()

11.54.3.114 native boolean parma_polyhedra_library::Octagonal_Shape_float::is_discrete ()

11.54.3.115 native boolean parma_polyhedra_library::Octagonal_Shape_float::is_disjoint_from (Octagonal_Shape_float *y*)

11.54.3.116 native boolean parma_polyhedra_library::Octagonal_Shape_float::is_empty ()

11.54.3.117 native boolean parma_polyhedra_library::Octagonal_Shape_float::is_topologically_-closed ()

11.54.3.118 native boolean parma_polyhedra_library::Octagonal_Shape_float::is_universe ()

11.54.3.119 native void parma_polyhedra_library::Octagonal_Shape_float::limited_-BHMZ05_extrapolation_assign (Octagonal_Shape_float *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.54.3.120 native void parma_polyhedra_library::Octagonal_Shape_float::limited_-CC76_extrapolation_assign (Octagonal_Shape_float *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.54.3.121 static native Pair<Octagonal_Shape_float, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Octagonal_Shape_float::linear_partition (Octagonal_Shape_float *p*, Octagonal_Shape_float *q*) `[static]`

11.54.3.122 native void parma_polyhedra_library::Octagonal_Shape_float::map_space_-dimensions (Partial_Function *pfunc*)

11.54.3.123 native boolean parma_polyhedra_library::Octagonal_Shape_float::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.54.3.124 native boolean parma_polyhedra_library::Octagonal_Shape_float::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.54.3.125 native boolean parma_polyhedra_library::Octagonal_Shape_float::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.54.3.126 native boolean parma_polyhedra_library::Octagonal_Shape_float::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.54.3.127 native Congruence_System parma_polyhedra_library::Octagonal_Shape_-float::minimized_congruences ()

11.54.3.128 native Constraint_System parma_polyhedra_library::Octagonal_Shape_-float::minimized_constraints ()

11.54.3.129 native boolean parma_polyhedra_library::Octagonal_Shape_float::OK ()

11.54.3.130 native void parma_polyhedra_library::Octagonal_Shape_float::refine_with_-congruence (Congruence *c*)

11.54.3.131 native void parma_polyhedra_library::Octagonal_Shape_float::refine_with_-congruences (Congruence_System *c*)

11.54.3.132 native void parma_polyhedra_library::Octagonal_Shape_float::refine_with_-constraint (Constraint *c*)

11.54.3.133 native void parma_polyhedra_library::Octagonal_Shape_float::refine_with_-constraints (Constraint_System *c*)

11.54.3.134 native Poly_Con_Relation parma_polyhedra_library::Octagonal_Shape_-float::relation_with (Congruence *c*)

11.54.3.135 native Poly_Gen_Relation parma_polyhedra_library::Octagonal_Shape_-float::relation_with (Generator *c*)

11.54.3.136 native Poly_Con_Relation parma_polyhedra_library::Octagonal_Shape_-float::relation_with (Constraint *c*)

11.54.3.137 native void parma_polyhedra_library::Octagonal_Shape_float::remove_higher_-space_dimensions (long *new_dimension*)

11.54.3.138 native void parma_polyhedra_library::Octagonal_Shape_float::remove_space_-dimensions (Variables_Set *vars*)

11.54.3.139 native boolean parma_polyhedra_library::Octagonal_Shape_-float::simplify_using_context_assign (Octagonal_Shape_float *p*)

11.54.3.140 native long parma_polyhedra_library::Octagonal_Shape_float::space_dimension ()

11.54.3.141 native boolean parma_polyhedra_library::Octagonal_Shape_float::strictly_contains (Octagonal_Shape_float *y*)

11.54.3.142 native void parma_polyhedra_library::Octagonal_Shape_float::swap (Octagonal_Shape_float *y*)

11.54.3.143 native void parma_polyhedra_library::Octagonal_Shape_float::time_elapse_assign (Octagonal_Shape_float *p*)

11.54.3.144 native void parma_polyhedra_library::Octagonal_Shape_float::topological_closure_assign ()

11.54.3.145 native String parma_polyhedra_library::Octagonal_Shape_float::toString ()

11.54.3.146 native long parma_polyhedra_library::Octagonal_Shape_float::total_memory_in_bytes ()

11.54.3.147 native void parma_polyhedra_library::Octagonal_Shape_float::unconstrain_space_dimension (Variable *var*)

11.54.3.148 native void parma_polyhedra_library::Octagonal_Shape_float::unconstrain_space_dimensions (Variables_Set *vars*)

11.54.3.149 native void parma_polyhedra_library::Octagonal_Shape_float::upper_bound_assign (Octagonal_Shape_float *p*)

11.54.3.150 native boolean parma_polyhedra_library::Octagonal_Shape_float::upper_bound_assign_if_exact (Octagonal_Shape_float *y*)

11.54.3.151 native void parma_polyhedra_library::Octagonal_Shape_float::widening_assign (Octagonal_Shape_float *y*, By_Reference< Integer > *tp*)

11.54.3.152 native void parma_polyhedra_library::Octagonal_Shape_float::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

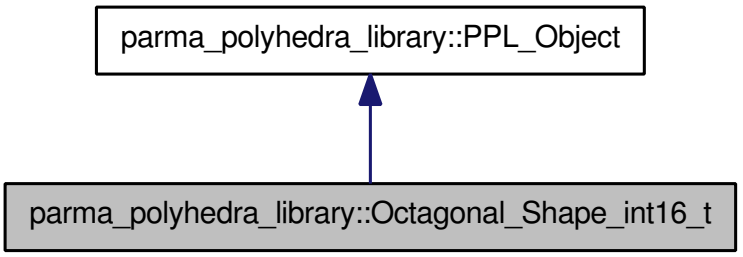
The documentation for this class was generated from the following file:

- Octagonal_Shape_float.java

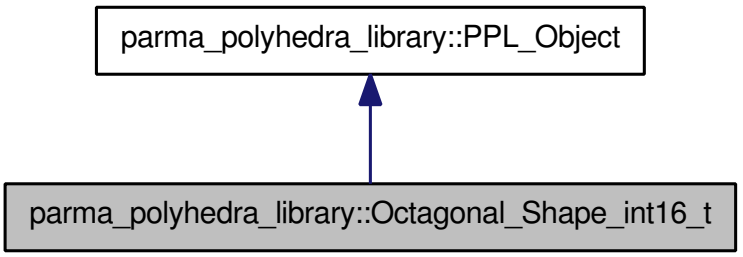
11.55 parma_polyhedra_library::Octagonal_Shape_int16_t Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<int16_t>

Inheritance diagram for parma_polyhedra_library::Octagonal_Shape_int16_t:



Collaboration diagram for parma_polyhedra_library::Octagonal_Shape_int16_t:



Public Member Functions

- Octagonal_Shape_int16_t (long num_dimensions, Degenerate_Element kind)
- Octagonal_Shape_int16_t (Int8_Box y)
- Octagonal_Shape_int16_t (Int16_Box y)
- Octagonal_Shape_int16_t (Int32_Box y)
- Octagonal_Shape_int16_t (Int64_Box y)
- Octagonal_Shape_int16_t (Uint8_Box y)
- Octagonal_Shape_int16_t (Uint16_Box y)
- Octagonal_Shape_int16_t (Uint32_Box y)
- Octagonal_Shape_int16_t (Uint64_Box y)
- Octagonal_Shape_int16_t (Z_Box y)

- Octagonal_Shape_int16_t (Rational_Box y)
- Octagonal_Shape_int16_t (BD_Shape_int8_t y)
- Octagonal_Shape_int16_t (BD_Shape_int16_t y)
- Octagonal_Shape_int16_t (BD_Shape_int32_t y)
- Octagonal_Shape_int16_t (BD_Shape_int64_t y)
- Octagonal_Shape_int16_t (BD_Shape_mpz_class y)
- Octagonal_Shape_int16_t (BD_Shape_mpq_class y)
- Octagonal_Shape_int16_t (Octagonal_Shape_int8_t y)
- Octagonal_Shape_int16_t (Octagonal_Shape_int16_t y)
- Octagonal_Shape_int16_t (Octagonal_Shape_int32_t y)
- Octagonal_Shape_int16_t (Octagonal_Shape_int64_t y)
- Octagonal_Shape_int16_t (Octagonal_Shape_mpz_class y)
- Octagonal_Shape_int16_t (Octagonal_Shape_mpq_class y)
- Octagonal_Shape_int16_t (C_Polyhedron y)
- Octagonal_Shape_int16_t (NNC_Polyhedron y)
- Octagonal_Shape_int16_t (Grid y)
- Octagonal_Shape_int16_t (Float_Box y)
- Octagonal_Shape_int16_t (BD_Shape_float y)
- Octagonal_Shape_int16_t (Octagonal_Shape_float y)
- Octagonal_Shape_int16_t (Double_Box y)
- Octagonal_Shape_int16_t (BD_Shape_double y)
- Octagonal_Shape_int16_t (Octagonal_Shape_double y)
- Octagonal_Shape_int16_t (Long_Double_Box y)
- Octagonal_Shape_int16_t (BD_Shape_long_double y)
- Octagonal_Shape_int16_t (Octagonal_Shape_long_double y)
- Octagonal_Shape_int16_t (Int8_Box y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Int16_Box y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Int32_Box y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Int64_Box y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Uint8_Box y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Uint16_Box y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Uint32_Box y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Uint64_Box y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Z_Box y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Rational_Box y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (BD_Shape_int8_t y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (BD_Shape_int16_t y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (BD_Shape_int32_t y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (BD_Shape_int64_t y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (BD_Shape_mpz_class y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (BD_Shape_mpq_class y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (C_Polyhedron y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (NNC_Polyhedron y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Grid y, Complexity_Class complexity)

- Octagonal_Shape_int16_t (Float_Box y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (BD_Shape_float y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Octagonal_Shape_float y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Double_Box y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (BD_Shape_double y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Octagonal_Shape_double y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Long_Double_Box y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (BD_Shape_long_double y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Octagonal_Shape_int16_t (Constraint_System cs)
- Octagonal_Shape_int16_t (Congruence_System cs)
- Octagonal_Shape_int16_t (Generator_System cs)
- native void swap (Octagonal_Shape_int16_t y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Octagonal_Shape_int16_t y)
- native boolean strictly_contains (Octagonal_Shape_int16_t y)
- native boolean is_disjoint_from (Octagonal_Shape_int16_t y)
- native boolean equals (Octagonal_Shape_int16_t p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)

- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Octagonal_Shape_int16_t p)
- native void upper_bound_assign (Octagonal_Shape_int16_t p)
- native void difference_assign (Octagonal_Shape_int16_t p)
- native void concatenate_assign (Octagonal_Shape_int16_t p)
- native void time_elapse_assign (Octagonal_Shape_int16_t p)
- native boolean upper_bound_assign_if_exact (Octagonal_Shape_int16_t y)
- native boolean simplify_using_context_assign (Octagonal_Shape_int16_t p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void BHMZ05_widening_assign (Octagonal_Shape_int16_t y, By_Reference< Integer > tp)
- native void widening_assign (Octagonal_Shape_int16_t y, By_Reference< Integer > tp)
- native void limited_BHMZ05_extrapolation_assign (Octagonal_Shape_int16_t y, Constraint_-System cs, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Octagonal_Shape_int16_t y, Constraint_System cs, By_Reference< Integer > tp)
- native void CC76_extrapolation_assign (Octagonal_Shape_int16_t arg, By_Reference< Integer > tp)
- native void CC76_narrowing_assign (Octagonal_Shape_int16_t arg)

- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native int hashCode ()
- native String toString ()

Static Public Member Functions

- static native Pair< Octagonal_Shape_int16_t, Pointset_Powerset_NNC_Polyhedron > linear_partition (Octagonal_Shape_int16_t p, Octagonal_Shape_int16_t q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Octagonal_Shape_int16_t ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)

- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.55.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<int16_t>

Definition at line 33 of file Octagonal_Shape_int16_t.java.

11.55.2 Constructor & Destructor Documentation

11.55.2.1 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.2 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t () [inline, private]

Definition at line 45 of file Octagonal_Shape_int16_t.java.

11.55.2.3 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Int8_Box *y*) [inline]

Definition at line 52 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.4 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Int16_Box *y*) [inline]

Definition at line 56 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.5 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Int32_Box *y*) [inline]

Definition at line 60 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.6 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Int64_Box *y*) [inline]

Definition at line 64 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.7 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Uint8_Box *y*) [inline]

Definition at line 68 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.8 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Uint16_Box *y*) [inline]

Definition at line 72 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.9 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Uint32_Box *y*) [inline]

Definition at line 76 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.10 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Uint64_Box *y*) [inline]

Definition at line 80 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.11 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Z_Box *y*) [inline]

Definition at line 84 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.12 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Rational_Box *y*) [inline]

Definition at line 88 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.13 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.14 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.15 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.16 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.17 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.18 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.19 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.20 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.21 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.22 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.23 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.24 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.25 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (C_Polyhedron *y*) [inline]

Definition at line 140 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.26 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.27 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Grid *y*) [inline]

Definition at line 148 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.28 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Float_Box *y*) [inline]

Definition at line 152 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.29 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (BD_Shape_float *y*) [inline]

Definition at line 156 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.30 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.31 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Double_Box *y*) [inline]

Definition at line 164 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.32 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (BD_Shape_double *y*) [inline]

Definition at line 168 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.33 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.34 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Long_Double_Box *y*) [inline]

Definition at line 176 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.35 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.36 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.37 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.38 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.39 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.40 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.41 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.42 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.43 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.44 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.45 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.46 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.47 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.48 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.49 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.50 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.51 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.52 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.53 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.54 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.55 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.56 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.57 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.58 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.59 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.60 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.61 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.62 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.63 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.64 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.65 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.66 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.67 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.68 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.69 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.70 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.71 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Constraint_System *cs*) [inline]

Definition at line 334 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.72 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Congruence_System *cs*) [inline]

Definition at line 338 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.2.73 parma_polyhedra_library::Octagonal_Shape_int16_t::Octagonal_Shape_int16_t (Generator_System *cs*) [inline]

Definition at line 342 of file Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.55.3 Member Function Documentation

11.55.3.1 native void parma_polyhedra_library::Octagonal_Shape_int16_t::add_congruence (Congruence *c*)

11.55.3.2 native void parma_polyhedra_library::Octagonal_Shape_int16_t::add_congruences (Congruence_System *c*)

11.55.3.3 native void parma_polyhedra_library::Octagonal_Shape_int16_t::add_constraint (Constraint *c*)

11.55.3.4 native void parma_polyhedra_library::Octagonal_Shape_int16_t::add_constraints (Constraint_System *c*)

11.55.3.5 native void parma_polyhedra_library::Octagonal_Shape_int16_t::add_space_dimensions_and_embed (long *m*)

11.55.3.6 native void parma_polyhedra_library::Octagonal_Shape_int16_t::add_space_dimensions_and_project (long *m*)

11.55.3.7 native long parma_polyhedra_library::Octagonal_Shape_int16_t::affine_dimension ()

11.55.3.8 native void parma_polyhedra_library::Octagonal_Shape_int16_t::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.55.3.9 native void parma_polyhedra_library::Octagonal_Shape_int16_t::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.55.3.10 native String parma_polyhedra_library::Octagonal_Shape_int16_t::ascii_dump ()

11.55.3.11 native void parma_polyhedra_library::Octagonal_Shape_int16_t::BHMZ05_-widening_assign (Octagonal_Shape_int16_t *y*, By_Reference< Integer > *tp*)

11.55.3.12 native void parma_polyhedra_library::Octagonal_Shape_int16_t::bounded_affine_-image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.55.3.13 native void parma_polyhedra_library::Octagonal_Shape_int16_t::bounded_affine_-preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.55.3.14 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::bounds_from_-above (Linear_Expression *expr*)

11.55.3.15 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::bounds_from_-below (Linear_Expression *expr*)

11.55.3.16 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.55.3.17 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.55.3.18 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.55.3.19 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (BD_Shape_long_double *y*) [private]

11.55.3.20 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.55.3.21 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Long_Double_Box *y*) [private]

11.55.3.22 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.55.3.23 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.55.3.24 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.55.3.25 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (BD_Shape_double *y*) [private]

11.55.3.26 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.55.3.27 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Double_Box *y*) [private]

11.55.3.28 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.55.3.29 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.55.3.30 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.55.3.31 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (BD_Shape_float *y*) [private]

11.55.3.32 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.55.3.33 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Float_Box *y*) [private]

11.55.3.34 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.55.3.35 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Grid *y*) [private]

11.55.3.36 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.55.3.37 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (NNC_Polyhedron *y*) [private]

11.55.3.38 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.55.3.39 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (C_Polyhedron *y*) [private]

11.55.3.40 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.55.3.41 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.55.3.42 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.55.3.43 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.55.3.44 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.55.3.45 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.55.3.46 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.55.3.47 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.55.3.48 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.55.3.49 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.55.3.50 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.55.3.51 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.55.3.52 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.55.3.53 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.55.3.54 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.55.3.55 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.55.3.56 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.55.3.57 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.55.3.58 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.55.3.59 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.55.3.60 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.55.3.61 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.55.3.62 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.55.3.63 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.55.3.64 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.55.3.65 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Rational_Box *y*) [private]

11.55.3.66 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.55.3.67 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Z_Box *y*) [private]

11.55.3.68 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.55.3.69 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Uint64_Box *y*) [private]

11.55.3.70 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.55.3.71 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Uint32_Box *y*) [private]

11.55.3.72 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.55.3.73 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Uint16_Box *y*) [private]

11.55.3.74 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.55.3.75 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Uint8_Box *y*) [private]

11.55.3.76 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.55.3.77 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Int64_Box *y*) [private]

11.55.3.78 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.55.3.79 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Int32_Box *y*) [private]

11.55.3.80 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.55.3.81 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Int16_Box *y*) [private]

11.55.3.82 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.55.3.83 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Int8_Box *y*) [private]

11.55.3.84 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.55.3.85 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Generator_System *cs*) [private]

11.55.3.86 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Congruence_System *cs*) [private]

11.55.3.87 native void parma_polyhedra_library::Octagonal_Shape_int16_t::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Octagonal_Shape_int16_t().

11.55.3.88 native void parma_polyhedra_library::Octagonal_Shape_int16_t::CC76_-extrapolation_assign (Octagonal_Shape_int16_t *arg*, By_Reference< Integer > *tp*)

11.55.3.89 native void parma_polyhedra_library::Octagonal_Shape_int16_t::CC76_narrowing_-assign (Octagonal_Shape_int16_t *arg*)

11.55.3.90 native void parma_polyhedra_library::Octagonal_Shape_int16_t::concatenate_assign (Octagonal_Shape_int16_t *p*)

11.55.3.91 native Congruence_System parma_polyhedra_library::Octagonal_Shape_int16_t::congruences ()

11.55.3.92 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::constrains (Variable *var*)

11.55.3.93 native Constraint_System parma_polyhedra_library::Octagonal_Shape_int16_t::constraints ()

11.55.3.94 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::contains (Octagonal_Shape_int16_t *y*)

11.55.3.95 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::contains_integer_point ()

11.55.3.96 native void parma_polyhedra_library::Octagonal_Shape_int16_t::difference_assign (Octagonal_Shape_int16_t *p*)

11.55.3.97 native void parma_polyhedra_library::Octagonal_Shape_int16_t::drop_some_non_integer_points (Integer *complexity_threshold*)

11.55.3.98 native void parma_polyhedra_library::Octagonal_Shape_int16_t::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.55.3.99 boolean parma_polyhedra_library::Octagonal_Shape_int16_t::equals (Object *y*) [inline]

Definition at line 465 of file Octagonal_Shape_int16_t.java.

References equals().

11.55.3.100 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::equals (Octagonal_Shape_int16_t *p*)

Referenced by equals().

11.55.3.101 native void parma_polyhedra_library::Octagonal_Shape_int16_t::expand_space_dimension (Variable *var*, long *m*)

11.55.3.102 native long parma_polyhedra_library::Octagonal_Shape_int16_t::external_memory_in_bytes ()

11.55.3.103 native void parma_polyhedra_library::Octagonal_Shape_int16_t::finalize () [protected]

11.55.3.104 native void parma_polyhedra_library::Octagonal_Shape_int16_t::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.55.3.105 native void parma_polyhedra_library::Octagonal_Shape_int16_t::free ()

11.55.3.106 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.55.3.107 native void parma_polyhedra_library::Octagonal_Shape_int16_t::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.55.3.108 native void parma_polyhedra_library::Octagonal_Shape_int16_t::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.55.3.109 native void parma_polyhedra_library::Octagonal_Shape_int16_t::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.55.3.110 native void parma_polyhedra_library::Octagonal_Shape_int16_t::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.55.3.111 native int parma_polyhedra_library::Octagonal_Shape_int16_t::hashCode ()

11.55.3.112 native void parma_polyhedra_library::Octagonal_Shape_int16_t::intersection_assign (Octagonal_Shape_int16_t *p*)

11.55.3.113 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::is_bounded ()

11.55.3.114 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::is_discrete ()

11.55.3.115 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::is_disjoint_from (Octagonal_Shape_int16_t *y*)

11.55.3.116 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::is_empty ()

11.55.3.117 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::is_topologically_closed ()

11.55.3.118 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::is_universe ()

11.55.3.119 native void parma_polyhedra_library::Octagonal_Shape_int16_t::limited_BHMZ05_extrapolation_assign (Octagonal_Shape_int16_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.55.3.120 native void parma_polyhedra_library::Octagonal_Shape_int16_t::limited_CC76_extrapolation_assign (Octagonal_Shape_int16_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.55.3.121 static native Pair<Octagonal_Shape_int16_t, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Octagonal_Shape_int16_t::linear_partition (Octagonal_Shape_int16_t *p*, Octagonal_Shape_int16_t *q*) `[static]`

11.55.3.122 native void parma_polyhedra_library::Octagonal_Shape_int16_t::map_space_dimensions (Partial_Function *pfunc*)

11.55.3.123 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.55.3.124 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.55.3.125 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.55.3.126 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.55.3.127 native Congruence_System parma_polyhedra_library::Octagonal_Shape_int16_t::minimized_congruences ()

11.55.3.128 native Constraint_System parma_polyhedra_library::Octagonal_Shape_int16_t::minimized_constraints ()

11.55.3.129 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::OK ()

11.55.3.130 native void parma_polyhedra_library::Octagonal_Shape_int16_t::refine_with_congruence (Congruence *c*)

11.55.3.131 native void parma_polyhedra_library::Octagonal_Shape_int16_t::refine_with_congruences (Congruence_System *c*)

11.55.3.132 native void parma_polyhedra_library::Octagonal_Shape_int16_t::refine_with_constraint (Constraint *c*)

11.55.3.133 native void parma_polyhedra_library::Octagonal_Shape_int16_t::refine_with_constraints (Constraint_System *c*)

11.55.3.134 native Poly_Con_Relation parma_polyhedra_library::Octagonal_Shape_int16_t::relation_with (Congruence *c*)

11.55.3.135 native Poly_Gen_Relation parma_polyhedra_library::Octagonal_Shape_int16_t::relation_with (Generator *c*)

11.55.3.136 native Poly_Con_Relation parma_polyhedra_library::Octagonal_Shape_int16_t::relation_with (Constraint *c*)

11.55.3.137 native void parma_polyhedra_library::Octagonal_Shape_int16_t::remove_higher_space_dimensions (long *new_dimension*)

11.55.3.138 native void parma_polyhedra_library::Octagonal_Shape_int16_t::remove_space_dimensions (Variables_Set *vars*)

11.55.3.139 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::simplify_using_context_assign (Octagonal_Shape_int16_t *p*)

11.55.3.140 native long parma_polyhedra_library::Octagonal_Shape_int16_t::space_dimension ()

11.55.3.141 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::strictly_contains (Octagonal_Shape_int16_t *y*)

11.55.3.142 native void parma_polyhedra_library::Octagonal_Shape_int16_t::swap (Octagonal_Shape_int16_t *y*)

11.55.3.143 native void parma_polyhedra_library::Octagonal_Shape_int16_t::time_elapse_assign (Octagonal_Shape_int16_t *p*)

11.55.3.144 native void parma_polyhedra_library::Octagonal_Shape_int16_t::topological_closure_assign ()

11.55.3.145 native String parma_polyhedra_library::Octagonal_Shape_int16_t::toString ()

11.55.3.146 native long parma_polyhedra_library::Octagonal_Shape_int16_t::total_memory_in_bytes ()

11.55.3.147 native void parma_polyhedra_library::Octagonal_Shape_int16_t::unconstrain_space_dimension (Variable *var*)

11.55.3.148 native void parma_polyhedra_library::Octagonal_Shape_int16_t::unconstrain_space_dimensions (Variables_Set *vars*)

11.55.3.149 native void parma_polyhedra_library::Octagonal_Shape_int16_t::upper_bound_assign (Octagonal_Shape_int16_t *p*)

11.55.3.150 native boolean parma_polyhedra_library::Octagonal_Shape_int16_t::upper_bound_assign_if_exact (Octagonal_Shape_int16_t *y*)

11.55.3.151 native void parma_polyhedra_library::Octagonal_Shape_int16_t::widening_assign (Octagonal_Shape_int16_t *y*, By_Reference< Integer > *tp*)

11.55.3.152 native void parma_polyhedra_library::Octagonal_Shape_int16_t::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

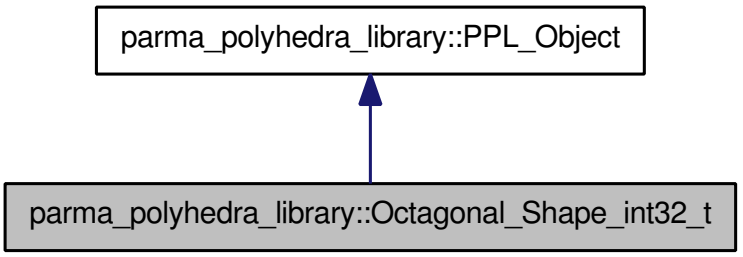
The documentation for this class was generated from the following file:

- Octagonal_Shape_int16_t.java

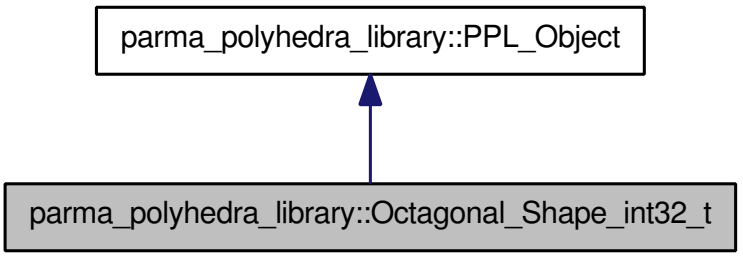
11.56 parma_polyhedra_library::Octagonal_Shape_int32_t Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<int32_t>

Inheritance diagram for parma_polyhedra_library::Octagonal_Shape_int32_t:



Collaboration diagram for parma_polyhedra_library::Octagonal_Shape_int32_t:



Public Member Functions

- Octagonal_Shape_int32_t (long num_dimensions, Degenerate_Element kind)
- Octagonal_Shape_int32_t (Int8_Box y)
- Octagonal_Shape_int32_t (Int16_Box y)
- Octagonal_Shape_int32_t (Int32_Box y)
- Octagonal_Shape_int32_t (Int64_Box y)
- Octagonal_Shape_int32_t (Uint8_Box y)
- Octagonal_Shape_int32_t (Uint16_Box y)
- Octagonal_Shape_int32_t (Uint32_Box y)
- Octagonal_Shape_int32_t (Uint64_Box y)
- Octagonal_Shape_int32_t (Z_Box y)

- Octagonal_Shape_int32_t (Rational_Box y)
- Octagonal_Shape_int32_t (BD_Shape_int8_t y)
- Octagonal_Shape_int32_t (BD_Shape_int16_t y)
- Octagonal_Shape_int32_t (BD_Shape_int32_t y)
- Octagonal_Shape_int32_t (BD_Shape_int64_t y)
- Octagonal_Shape_int32_t (BD_Shape_mpz_class y)
- Octagonal_Shape_int32_t (BD_Shape_mpq_class y)
- Octagonal_Shape_int32_t (Octagonal_Shape_int8_t y)
- Octagonal_Shape_int32_t (Octagonal_Shape_int16_t y)
- Octagonal_Shape_int32_t (Octagonal_Shape_int32_t y)
- Octagonal_Shape_int32_t (Octagonal_Shape_int64_t y)
- Octagonal_Shape_int32_t (Octagonal_Shape_mpz_class y)
- Octagonal_Shape_int32_t (Octagonal_Shape_mpq_class y)
- Octagonal_Shape_int32_t (C_Polyhedron y)
- Octagonal_Shape_int32_t (NNC_Polyhedron y)
- Octagonal_Shape_int32_t (Grid y)
- Octagonal_Shape_int32_t (Float_Box y)
- Octagonal_Shape_int32_t (BD_Shape_float y)
- Octagonal_Shape_int32_t (Octagonal_Shape_float y)
- Octagonal_Shape_int32_t (Double_Box y)
- Octagonal_Shape_int32_t (BD_Shape_double y)
- Octagonal_Shape_int32_t (Octagonal_Shape_double y)
- Octagonal_Shape_int32_t (Long_Double_Box y)
- Octagonal_Shape_int32_t (BD_Shape_long_double y)
- Octagonal_Shape_int32_t (Octagonal_Shape_long_double y)
- Octagonal_Shape_int32_t (Int8_Box y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Int16_Box y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Int32_Box y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Int64_Box y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Uint8_Box y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Uint16_Box y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Uint32_Box y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Uint64_Box y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Z_Box y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Rational_Box y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (BD_Shape_int8_t y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (BD_Shape_int16_t y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (BD_Shape_int32_t y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (BD_Shape_int64_t y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (BD_Shape_mpz_class y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (BD_Shape_mpq_class y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (C_Polyhedron y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (NNC_Polyhedron y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Grid y, Complexity_Class complexity)

- Octagonal_Shape_int32_t (Float_Box y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (BD_Shape_float y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Octagonal_Shape_float y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Double_Box y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (BD_Shape_double y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Octagonal_Shape_double y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Long_Double_Box y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (BD_Shape_long_double y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Octagonal_Shape_int32_t (Constraint_System cs)
- Octagonal_Shape_int32_t (Congruence_System cs)
- Octagonal_Shape_int32_t (Generator_System cs)
- native void swap (Octagonal_Shape_int32_t y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Octagonal_Shape_int32_t y)
- native boolean strictly_contains (Octagonal_Shape_int32_t y)
- native boolean is_disjoint_from (Octagonal_Shape_int32_t y)
- native boolean equals (Octagonal_Shape_int32_t p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)

- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Octagonal_Shape_int32_t p)
- native void upper_bound_assign (Octagonal_Shape_int32_t p)
- native void difference_assign (Octagonal_Shape_int32_t p)
- native void concatenate_assign (Octagonal_Shape_int32_t p)
- native void time_elapse_assign (Octagonal_Shape_int32_t p)
- native boolean upper_bound_assign_if_exact (Octagonal_Shape_int32_t y)
- native boolean simplify_using_context_assign (Octagonal_Shape_int32_t p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void BHMZ05_widening_assign (Octagonal_Shape_int32_t y, By_Reference< Integer > tp)
- native void widening_assign (Octagonal_Shape_int32_t y, By_Reference< Integer > tp)
- native void limited_BHMZ05_extrapolation_assign (Octagonal_Shape_int32_t y, Constraint_-System cs, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Octagonal_Shape_int32_t y, Constraint_System cs, By_Reference< Integer > tp)
- native void CC76_extrapolation_assign (Octagonal_Shape_int32_t arg, By_Reference< Integer > tp)
- native void CC76_narrowing_assign (Octagonal_Shape_int32_t arg)

- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native int hashCode ()
- native String toString ()

Static Public Member Functions

- static native Pair< Octagonal_Shape_int32_t, Pointset_Powerset_NNC_Polyhedron > linear_partition (Octagonal_Shape_int32_t p, Octagonal_Shape_int32_t q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Octagonal_Shape_int32_t ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)

- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.56.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<int32_t>

Definition at line 33 of file Octagonal_Shape_int32_t.java.

11.56.2 Constructor & Destructor Documentation

11.56.2.1 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.2 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t () [inline, private]

Definition at line 45 of file Octagonal_Shape_int32_t.java.

11.56.2.3 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Int8_Box *y*) [inline]

Definition at line 52 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.4 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Int16_Box *y*) [inline]

Definition at line 56 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.5 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Int32_Box *y*) [inline]

Definition at line 60 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.6 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Int64_Box *y*) [inline]

Definition at line 64 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.7 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Uint8_Box *y*) [inline]

Definition at line 68 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.8 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Uint16_Box *y*) [inline]

Definition at line 72 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.9 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Uint32_Box *y*) [inline]

Definition at line 76 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.10 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Uint64_Box *y*) [inline]

Definition at line 80 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.11 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Z_Box *y*) [inline]

Definition at line 84 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.12 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Rational_Box *y*) [inline]

Definition at line 88 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.13 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.14 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.15 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.16 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.17 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.18 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.19 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.20 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.21 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.22 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.23 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.24 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.25 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (C_Polyhedron *y*) [inline]

Definition at line 140 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.26 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.27 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Grid *y*) [inline]

Definition at line 148 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.28 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Float_Box *y*) [inline]

Definition at line 152 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.29 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (BD_Shape_float *y*) [inline]

Definition at line 156 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.30 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.31 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Double_Box *y*) [inline]

Definition at line 164 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.32 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (BD_Shape_double *y*) [inline]

Definition at line 168 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.33 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.34 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Long_Double_Box *y*) [inline]

Definition at line 176 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.35 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.36 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.37 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.38 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.39 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.40 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.41 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.42 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.43 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.44 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.45 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.46 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.47 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.48 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.49 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.50 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.51 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.52 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.53 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.54 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.55 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.56 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.57 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.58 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.59 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.60 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.61 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.62 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.63 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.64 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.65 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.66 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.67 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.68 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.69 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.70 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.71 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Constraint_System *cs*) [inline]

Definition at line 334 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.72 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Congruence_System *cs*) [inline]

Definition at line 338 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.2.73 parma_polyhedra_library::Octagonal_Shape_int32_t::Octagonal_Shape_int32_t (Generator_System *cs*) [inline]

Definition at line 342 of file Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.56.3 Member Function Documentation

11.56.3.1 native void parma_polyhedra_library::Octagonal_Shape_int32_t::add_congruence (Congruence *c*)

11.56.3.2 native void parma_polyhedra_library::Octagonal_Shape_int32_t::add_congruences (Congruence_System *c*)

11.56.3.3 native void parma_polyhedra_library::Octagonal_Shape_int32_t::add_constraint (Constraint *c*)

11.56.3.4 native void parma_polyhedra_library::Octagonal_Shape_int32_t::add_constraints (Constraint_System *c*)

11.56.3.5 native void parma_polyhedra_library::Octagonal_Shape_int32_t::add_space_dimensions_and_embed (long *m*)

11.56.3.6 native void parma_polyhedra_library::Octagonal_Shape_int32_t::add_space_dimensions_and_project (long *m*)

11.56.3.7 native long parma_polyhedra_library::Octagonal_Shape_int32_t::affine_dimension ()

11.56.3.8 native void parma_polyhedra_library::Octagonal_Shape_int32_t::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.56.3.9 native void parma_polyhedra_library::Octagonal_Shape_int32_t::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.56.3.10 native String parma_polyhedra_library::Octagonal_Shape_int32_t::ascii_dump ()

11.56.3.11 native void parma_polyhedra_library::Octagonal_Shape_int32_t::BHMZ05_-widening_assign (Octagonal_Shape_int32_t *y*, By_Reference< Integer > *tp*)

11.56.3.12 native void parma_polyhedra_library::Octagonal_Shape_int32_t::bounded_affine_-image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.56.3.13 native void parma_polyhedra_library::Octagonal_Shape_int32_t::bounded_affine_-preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.56.3.14 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::bounds_from_-above (Linear_Expression *expr*)

11.56.3.15 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::bounds_from_-below (Linear_Expression *expr*)

11.56.3.16 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.56.3.17 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.56.3.18 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.56.3.19 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (BD_Shape_long_double *y*) [private]

11.56.3.20 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.56.3.21 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Long_Double_Box *y*) [private]

11.56.3.22 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.56.3.23 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.56.3.24 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.56.3.25 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (BD_Shape_double *y*) [private]

11.56.3.26 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.56.3.27 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Double_Box *y*) [private]

11.56.3.28 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.56.3.29 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.56.3.30 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.56.3.31 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (BD_Shape_float *y*) [private]

11.56.3.32 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.56.3.33 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Float_Box *y*) [private]

11.56.3.34 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.56.3.35 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Grid *y*) [private]

11.56.3.36 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.56.3.37 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (NNC_Polyhedron *y*) [private]

11.56.3.38 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.56.3.39 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (C_Polyhedron *y*) [private]

11.56.3.40 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.56.3.41 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.56.3.42 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.56.3.43 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.56.3.44 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.56.3.45 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.56.3.46 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.56.3.47 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.56.3.48 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.56.3.49 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.56.3.50 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.56.3.51 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.56.3.52 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.56.3.53 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.56.3.54 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.56.3.55 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.56.3.56 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.56.3.57 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.56.3.58 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.56.3.59 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.56.3.60 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.56.3.61 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.56.3.62 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.56.3.63 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.56.3.64 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.56.3.65 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Rational_Box *y*) [private]

11.56.3.66 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.56.3.67 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Z_Box *y*) [private]

11.56.3.68 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.56.3.69 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Uint64_Box *y*) [private]

11.56.3.70 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.56.3.71 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Uint32_Box *y*) [private]

11.56.3.72 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.56.3.73 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Uint16_Box *y*) [private]

11.56.3.74 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.56.3.75 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Uint8_Box *y*) [private]

11.56.3.76 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.56.3.77 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Int64_Box *y*) [private]

11.56.3.78 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.56.3.79 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Int32_Box *y*) [private]

11.56.3.80 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.56.3.81 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Int16_Box *y*) [private]

11.56.3.82 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.56.3.83 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Int8_Box *y*) [private]

11.56.3.84 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.56.3.85 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Generator_System *cs*) [private]

11.56.3.86 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Congruence_System *cs*) [private]

11.56.3.87 native void parma_polyhedra_library::Octagonal_Shape_int32_t::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Octagonal_Shape_int32_t().

11.56.3.88 native void parma_polyhedra_library::Octagonal_Shape_int32_t::CC76_-extrapolation_assign (Octagonal_Shape_int32_t *arg*, By_Reference< Integer > *tp*)

11.56.3.89 native void parma_polyhedra_library::Octagonal_Shape_int32_t::CC76_narrowing_-assign (Octagonal_Shape_int32_t *arg*)

11.56.3.90 native void parma_polyhedra_library::Octagonal_Shape_int32_t::concatenate_assign (Octagonal_Shape_int32_t *p*)

11.56.3.91 native Congruence_System parma_polyhedra_library::Octagonal_Shape_int32_t::congruences ()

11.56.3.92 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::constrains (Variable *var*)

11.56.3.93 native Constraint_System parma_polyhedra_library::Octagonal_Shape_int32_t::constraints ()

11.56.3.94 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::contains (Octagonal_Shape_int32_t *y*)

11.56.3.95 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::contains_integer_point ()

11.56.3.96 native void parma_polyhedra_library::Octagonal_Shape_int32_t::difference_assign (Octagonal_Shape_int32_t *p*)

11.56.3.97 native void parma_polyhedra_library::Octagonal_Shape_int32_t::drop_some_non_integer_points (Integer *complexity_threshold*)

11.56.3.98 native void parma_polyhedra_library::Octagonal_Shape_int32_t::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.56.3.99 boolean parma_polyhedra_library::Octagonal_Shape_int32_t::equals (Object *y*) [inline]

Definition at line 465 of file Octagonal_Shape_int32_t.java.

References equals().

11.56.3.100 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::equals (Octagonal_Shape_int32_t *p*)

Referenced by equals().

11.56.3.101 native void parma_polyhedra_library::Octagonal_Shape_int32_t::expand_space_dimension (Variable *var*, long *m*)

11.56.3.102 native long parma_polyhedra_library::Octagonal_Shape_int32_t::external_memory_in_bytes ()

11.56.3.103 native void parma_polyhedra_library::Octagonal_Shape_int32_t::finalize () [protected]

11.56.3.104 native void parma_polyhedra_library::Octagonal_Shape_int32_t::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.56.3.105 native void parma_polyhedra_library::Octagonal_Shape_int32_t::free ()

11.56.3.106 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.56.3.107 native void parma_polyhedra_library::Octagonal_Shape_int32_t::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.56.3.108 native void parma_polyhedra_library::Octagonal_Shape_int32_t::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.56.3.109 native void parma_polyhedra_library::Octagonal_Shape_int32_t::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.56.3.110 native void parma_polyhedra_library::Octagonal_Shape_int32_t::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.56.3.111 native int parma_polyhedra_library::Octagonal_Shape_int32_t::hashCode ()

11.56.3.112 native void parma_polyhedra_library::Octagonal_Shape_int32_t::intersection_assign (Octagonal_Shape_int32_t *p*)

11.56.3.113 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::is_bounded ()

11.56.3.114 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::is_discrete ()

11.56.3.115 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::is_disjoint_from (Octagonal_Shape_int32_t *y*)

11.56.3.116 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::is_empty ()

11.56.3.117 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::is_topologically_closed ()

11.56.3.118 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::is_universe ()

11.56.3.119 native void parma_polyhedra_library::Octagonal_Shape_int32_t::limited_BHMZ05_extrapolation_assign (Octagonal_Shape_int32_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.56.3.120 native void parma_polyhedra_library::Octagonal_Shape_int32_t::limited_CC76_extrapolation_assign (Octagonal_Shape_int32_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.56.3.121 static native Pair<Octagonal_Shape_int32_t, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Octagonal_Shape_int32_t::linear_partition (Octagonal_Shape_int32_t *p*, Octagonal_Shape_int32_t *q*) `[static]`

11.56.3.122 native void parma_polyhedra_library::Octagonal_Shape_int32_t::map_space_dimensions (Partial_Function *pfunc*)

11.56.3.123 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.56.3.124 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.56.3.125 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.56.3.126 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.56.3.127 native Congruence_System parma_polyhedra_library::Octagonal_Shape_int32_t::minimized_congruences ()

11.56.3.128 native Constraint_System parma_polyhedra_library::Octagonal_Shape_int32_t::minimized_constraints ()

11.56.3.129 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::OK ()

11.56.3.130 native void parma_polyhedra_library::Octagonal_Shape_int32_t::refine_with_congruence (Congruence *c*)

11.56.3.131 native void parma_polyhedra_library::Octagonal_Shape_int32_t::refine_with_congruences (Congruence_System *c*)

11.56.3.132 native void parma_polyhedra_library::Octagonal_Shape_int32_t::refine_with_constraint (Constraint *c*)

11.56.3.133 native void parma_polyhedra_library::Octagonal_Shape_int32_t::refine_with_constraints (Constraint_System *c*)

11.56.3.134 native Poly_Con_Relation parma_polyhedra_library::Octagonal_Shape_int32_t::relation_with (Congruence *c*)

11.56.3.135 native Poly_Gen_Relation parma_polyhedra_library::Octagonal_Shape_int32_t::relation_with (Generator *c*)

11.56.3.136 native Poly_Con_Relation parma_polyhedra_library::Octagonal_Shape_int32_t::relation_with (Constraint *c*)

11.56.3.137 native void parma_polyhedra_library::Octagonal_Shape_int32_t::remove_higher_space_dimensions (long *new_dimension*)

11.56.3.138 native void parma_polyhedra_library::Octagonal_Shape_int32_t::remove_space_dimensions (Variables_Set *vars*)

11.56.3.139 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::simplify_using_context_assign (Octagonal_Shape_int32_t *p*)

11.56.3.140 native long parma_polyhedra_library::Octagonal_Shape_int32_t::space_dimension ()

11.56.3.141 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::strictly_contains (Octagonal_Shape_int32_t *y*)

11.56.3.142 native void parma_polyhedra_library::Octagonal_Shape_int32_t::swap (Octagonal_Shape_int32_t *y*)

11.56.3.143 native void parma_polyhedra_library::Octagonal_Shape_int32_t::time_elapse_assign (Octagonal_Shape_int32_t *p*)

11.56.3.144 native void parma_polyhedra_library::Octagonal_Shape_int32_t::topological_closure_assign ()

11.56.3.145 native String parma_polyhedra_library::Octagonal_Shape_int32_t::toString ()

11.56.3.146 native long parma_polyhedra_library::Octagonal_Shape_int32_t::total_memory_in_bytes ()

11.56.3.147 native void parma_polyhedra_library::Octagonal_Shape_int32_t::unconstrain_space_dimension (Variable *var*)

11.56.3.148 native void parma_polyhedra_library::Octagonal_Shape_int32_t::unconstrain_space_dimensions (Variables_Set *vars*)

11.56.3.149 native void parma_polyhedra_library::Octagonal_Shape_int32_t::upper_bound_assign (Octagonal_Shape_int32_t *p*)

11.56.3.150 native boolean parma_polyhedra_library::Octagonal_Shape_int32_t::upper_bound_assign_if_exact (Octagonal_Shape_int32_t *y*)

11.56.3.151 native void parma_polyhedra_library::Octagonal_Shape_int32_t::widening_assign (Octagonal_Shape_int32_t *y*, By_Reference< Integer > *tp*)

11.56.3.152 native void parma_polyhedra_library::Octagonal_Shape_int32_t::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

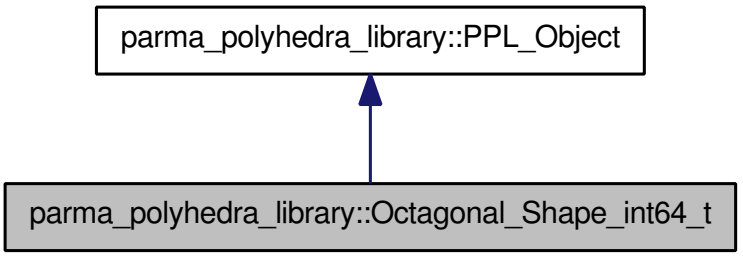
The documentation for this class was generated from the following file:

- Octagonal_Shape_int32_t.java

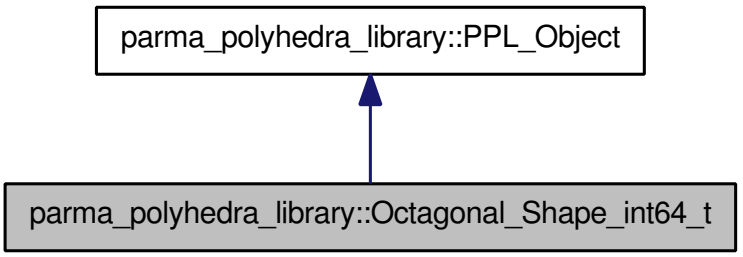
11.57 parma_polyhedra_library::Octagonal_Shape_int64_t Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<int64_t>

Inheritance diagram for parma_polyhedra_library::Octagonal_Shape_int64_t:



Collaboration diagram for parma_polyhedra_library::Octagonal_Shape_int64_t:



Public Member Functions

- Octagonal_Shape_int64_t (long num_dimensions, Degenerate_Element kind)
- Octagonal_Shape_int64_t (Int8_Box y)
- Octagonal_Shape_int64_t (Int16_Box y)
- Octagonal_Shape_int64_t (Int32_Box y)
- Octagonal_Shape_int64_t (Int64_Box y)
- Octagonal_Shape_int64_t (Uint8_Box y)
- Octagonal_Shape_int64_t (Uint16_Box y)
- Octagonal_Shape_int64_t (Uint32_Box y)
- Octagonal_Shape_int64_t (Uint64_Box y)
- Octagonal_Shape_int64_t (Z_Box y)

- Octagonal_Shape_int64_t (Rational_Box y)
- Octagonal_Shape_int64_t (BD_Shape_int8_t y)
- Octagonal_Shape_int64_t (BD_Shape_int16_t y)
- Octagonal_Shape_int64_t (BD_Shape_int32_t y)
- Octagonal_Shape_int64_t (BD_Shape_int64_t y)
- Octagonal_Shape_int64_t (BD_Shape_mpz_class y)
- Octagonal_Shape_int64_t (BD_Shape_mpq_class y)
- Octagonal_Shape_int64_t (Octagonal_Shape_int8_t y)
- Octagonal_Shape_int64_t (Octagonal_Shape_int16_t y)
- Octagonal_Shape_int64_t (Octagonal_Shape_int32_t y)
- Octagonal_Shape_int64_t (Octagonal_Shape_int64_t y)
- Octagonal_Shape_int64_t (Octagonal_Shape_mpz_class y)
- Octagonal_Shape_int64_t (Octagonal_Shape_mpq_class y)
- Octagonal_Shape_int64_t (C_Polyhedron y)
- Octagonal_Shape_int64_t (NNC_Polyhedron y)
- Octagonal_Shape_int64_t (Grid y)
- Octagonal_Shape_int64_t (Float_Box y)
- Octagonal_Shape_int64_t (BD_Shape_float y)
- Octagonal_Shape_int64_t (Octagonal_Shape_float y)
- Octagonal_Shape_int64_t (Double_Box y)
- Octagonal_Shape_int64_t (BD_Shape_double y)
- Octagonal_Shape_int64_t (Octagonal_Shape_double y)
- Octagonal_Shape_int64_t (Long_Double_Box y)
- Octagonal_Shape_int64_t (BD_Shape_long_double y)
- Octagonal_Shape_int64_t (Octagonal_Shape_long_double y)
- Octagonal_Shape_int64_t (Int8_Box y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Int16_Box y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Int32_Box y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Int64_Box y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Uint8_Box y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Uint16_Box y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Uint32_Box y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Uint64_Box y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Z_Box y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Rational_Box y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (BD_Shape_int8_t y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (BD_Shape_int16_t y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (BD_Shape_int32_t y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (BD_Shape_int64_t y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (BD_Shape_mpz_class y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (BD_Shape_mpq_class y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (C_Polyhedron y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (NNC_Polyhedron y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Grid y, Complexity_Class complexity)

- Octagonal_Shape_int64_t (Float_Box y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (BD_Shape_float y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Octagonal_Shape_float y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Double_Box y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (BD_Shape_double y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Octagonal_Shape_double y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Long_Double_Box y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (BD_Shape_long_double y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Octagonal_Shape_int64_t (Constraint_System cs)
- Octagonal_Shape_int64_t (Congruence_System cs)
- Octagonal_Shape_int64_t (Generator_System cs)
- native void swap (Octagonal_Shape_int64_t y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Octagonal_Shape_int64_t y)
- native boolean strictly_contains (Octagonal_Shape_int64_t y)
- native boolean is_disjoint_from (Octagonal_Shape_int64_t y)
- native boolean equals (Octagonal_Shape_int64_t p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)

- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Octagonal_Shape_int64_t p)
- native void upper_bound_assign (Octagonal_Shape_int64_t p)
- native void difference_assign (Octagonal_Shape_int64_t p)
- native void concatenate_assign (Octagonal_Shape_int64_t p)
- native void time_elapse_assign (Octagonal_Shape_int64_t p)
- native boolean upper_bound_assign_if_exact (Octagonal_Shape_int64_t y)
- native boolean simplify_using_context_assign (Octagonal_Shape_int64_t p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void BHMZ05_widening_assign (Octagonal_Shape_int64_t y, By_Reference< Integer > tp)
- native void widening_assign (Octagonal_Shape_int64_t y, By_Reference< Integer > tp)
- native void limited_BHMZ05_extrapolation_assign (Octagonal_Shape_int64_t y, Constraint_-System cs, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Octagonal_Shape_int64_t y, Constraint_System cs, By_Reference< Integer > tp)
- native void CC76_extrapolation_assign (Octagonal_Shape_int64_t arg, By_Reference< Integer > tp)
- native void CC76_narrowing_assign (Octagonal_Shape_int64_t arg)

- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native int hashCode ()
- native String toString ()

Static Public Member Functions

- static native Pair< Octagonal_Shape_int64_t, Pointset_Powerset_NNC_Polyhedron > linear_partition (Octagonal_Shape_int64_t p, Octagonal_Shape_int64_t q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Octagonal_Shape_int64_t ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)

- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.57.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<int64_t>

Definition at line 33 of file Octagonal_Shape_int64_t.java.

11.57.2 Constructor & Destructor Documentation

11.57.2.1 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.2 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t () [inline, private]

Definition at line 45 of file Octagonal_Shape_int64_t.java.

11.57.2.3 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Int8_Box *y*) [inline]

Definition at line 52 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.4 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Int16_Box *y*) [inline]

Definition at line 56 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.5 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Int32_Box *y*) [inline]

Definition at line 60 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.6 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Int64_Box *y*) [inline]

Definition at line 64 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.7 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Uint8_Box *y*) [inline]

Definition at line 68 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.8 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Uint16_Box *y*) [inline]

Definition at line 72 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.9 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Uint32_Box *y*) [inline]

Definition at line 76 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.10 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Uint64_Box *y*) [inline]

Definition at line 80 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.11 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Z_Box *y*) [inline]

Definition at line 84 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.12 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Rational_Box *y*) [inline]

Definition at line 88 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.13 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.14 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.15 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.16 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.17 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.18 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.19 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.20 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.21 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.22 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.23 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.24 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.25 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (C_Polyhedron *y*) [inline]

Definition at line 140 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.26 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.27 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Grid *y*) [inline]

Definition at line 148 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.28 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Float_Box *y*) [inline]

Definition at line 152 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.29 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (BD_Shape_float *y*) [inline]

Definition at line 156 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.30 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.31 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Double_Box *y*) [inline]

Definition at line 164 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.32 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (BD_Shape_double *y*) [inline]

Definition at line 168 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.33 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.34 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Long_Double_Box *y*) [inline]

Definition at line 176 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.35 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.36 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.37 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.38 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.39 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.40 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.41 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.42 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.43 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.44 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.45 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.46 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.47 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.48 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.49 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.50 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.51 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.52 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.53 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.54 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.55 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.56 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.57 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.58 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.59 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.60 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.61 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.62 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.63 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.64 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.65 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.66 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.67 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.68 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.69 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.70 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.71 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Constraint_System *cs*) [inline]

Definition at line 334 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.72 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Congruence_System *cs*) [inline]

Definition at line 338 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.2.73 parma_polyhedra_library::Octagonal_Shape_int64_t::Octagonal_Shape_int64_t (Generator_System *cs*) [inline]

Definition at line 342 of file Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.57.3 Member Function Documentation

11.57.3.1 native void parma_polyhedra_library::Octagonal_Shape_int64_t::add_congruence (Congruence *c*)

11.57.3.2 native void parma_polyhedra_library::Octagonal_Shape_int64_t::add_congruences (Congruence_System *c*)

11.57.3.3 native void parma_polyhedra_library::Octagonal_Shape_int64_t::add_constraint (Constraint *c*)

11.57.3.4 native void parma_polyhedra_library::Octagonal_Shape_int64_t::add_constraints (Constraint_System *c*)

11.57.3.5 native void parma_polyhedra_library::Octagonal_Shape_int64_t::add_space_dimensions_and_embed (long *m*)

11.57.3.6 native void parma_polyhedra_library::Octagonal_Shape_int64_t::add_space_dimensions_and_project (long *m*)

11.57.3.7 native long parma_polyhedra_library::Octagonal_Shape_int64_t::affine_dimension ()

11.57.3.8 native void parma_polyhedra_library::Octagonal_Shape_int64_t::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.57.3.9 native void parma_polyhedra_library::Octagonal_Shape_int64_t::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.57.3.10 native String parma_polyhedra_library::Octagonal_Shape_int64_t::ascii_dump ()

11.57.3.11 native void parma_polyhedra_library::Octagonal_Shape_int64_t::BHMZ05_-widening_assign (Octagonal_Shape_int64_t *y*, By_Reference< Integer > *tp*)

11.57.3.12 native void parma_polyhedra_library::Octagonal_Shape_int64_t::bounded_affine_-image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.57.3.13 native void parma_polyhedra_library::Octagonal_Shape_int64_t::bounded_affine_-preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.57.3.14 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::bounds_from_-above (Linear_Expression *expr*)

11.57.3.15 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::bounds_from_-below (Linear_Expression *expr*)

11.57.3.16 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.57.3.17 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.57.3.18 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.57.3.19 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (BD_Shape_long_double *y*) [private]

11.57.3.20 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.57.3.21 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Long_Double_Box *y*) [private]

11.57.3.22 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.57.3.23 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.57.3.24 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.57.3.25 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (BD_Shape_double *y*) [private]

11.57.3.26 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.57.3.27 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Double_Box *y*) [private]

11.57.3.28 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.57.3.29 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.57.3.30 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.57.3.31 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (BD_Shape_float *y*) [private]

11.57.3.32 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.57.3.33 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Float_Box *y*) [private]

11.57.3.34 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.57.3.35 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Grid *y*) [private]

11.57.3.36 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.57.3.37 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (NNC_Polyhedron *y*) [private]

11.57.3.38 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.57.3.39 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (C_Polyhedron *y*) [private]

11.57.3.40 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.57.3.41 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.57.3.42 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.57.3.43 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.57.3.44 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.57.3.45 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.57.3.46 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.57.3.47 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.57.3.48 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.57.3.49 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.57.3.50 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.57.3.51 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.57.3.52 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.57.3.53 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.57.3.54 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.57.3.55 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.57.3.56 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.57.3.57 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.57.3.58 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.57.3.59 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.57.3.60 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.57.3.61 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.57.3.62 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.57.3.63 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.57.3.64 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.57.3.65 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Rational_Box *y*) [private]

11.57.3.66 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.57.3.67 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Z_Box *y*) [private]

11.57.3.68 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.57.3.69 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Uint64_Box *y*) [private]

11.57.3.70 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.57.3.71 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Uint32_Box *y*) [private]

11.57.3.72 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.57.3.73 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Uint16_Box *y*) [private]

11.57.3.74 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.57.3.75 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Uint8_Box *y*) [private]

11.57.3.76 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.57.3.77 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Int64_Box *y*) [private]

11.57.3.78 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.57.3.79 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Int32_Box *y*) [private]

11.57.3.80 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.57.3.81 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Int16_Box *y*) [private]

11.57.3.82 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.57.3.83 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Int8_Box *y*) [private]

11.57.3.84 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.57.3.85 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Generator_System *cs*) [private]

11.57.3.86 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Congruence_System *cs*) [private]

11.57.3.87 native void parma_polyhedra_library::Octagonal_Shape_int64_t::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Octagonal_Shape_int64_t().

11.57.3.88 native void parma_polyhedra_library::Octagonal_Shape_int64_t::CC76_-extrapolation_assign (Octagonal_Shape_int64_t *arg*, By_Reference< Integer > *tp*)

11.57.3.89 native void parma_polyhedra_library::Octagonal_Shape_int64_t::CC76_narrowing_-assign (Octagonal_Shape_int64_t *arg*)

11.57.3.90 native void parma_polyhedra_library::Octagonal_Shape_int64_t::concatenate_assign (Octagonal_Shape_int64_t *p*)

11.57.3.91 native Congruence_System parma_polyhedra_library::Octagonal_Shape_int64_t::congruences ()

11.57.3.92 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::constrains (Variable *var*)

11.57.3.93 native Constraint_System parma_polyhedra_library::Octagonal_Shape_int64_t::constraints ()

11.57.3.94 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::contains (Octagonal_Shape_int64_t *y*)

11.57.3.95 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::contains_integer_point ()

11.57.3.96 native void parma_polyhedra_library::Octagonal_Shape_int64_t::difference_assign (Octagonal_Shape_int64_t *p*)

11.57.3.97 native void parma_polyhedra_library::Octagonal_Shape_int64_t::drop_some_non_integer_points (Integer *complexity_threshold*)

11.57.3.98 native void parma_polyhedra_library::Octagonal_Shape_int64_t::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.57.3.99 boolean parma_polyhedra_library::Octagonal_Shape_int64_t::equals (Object *y*) [inline]

Definition at line 465 of file Octagonal_Shape_int64_t.java.

References equals().

11.57.3.100 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::equals (Octagonal_Shape_int64_t *p*)

Referenced by equals().

11.57.3.101 native void parma_polyhedra_library::Octagonal_Shape_int64_t::expand_space_dimension (Variable *var*, long *m*)

11.57.3.102 native long parma_polyhedra_library::Octagonal_Shape_int64_t::external_memory_in_bytes ()

11.57.3.103 native void parma_polyhedra_library::Octagonal_Shape_int64_t::finalize () [protected]

11.57.3.104 native void parma_polyhedra_library::Octagonal_Shape_int64_t::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.57.3.105 native void parma_polyhedra_library::Octagonal_Shape_int64_t::free ()

11.57.3.106 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.57.3.107 native void parma_polyhedra_library::Octagonal_Shape_int64_t::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.57.3.108 native void parma_polyhedra_library::Octagonal_Shape_int64_t::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.57.3.109 native void parma_polyhedra_library::Octagonal_Shape_int64_t::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.57.3.110 native void parma_polyhedra_library::Octagonal_Shape_int64_t::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.57.3.111 native int parma_polyhedra_library::Octagonal_Shape_int64_t::hashCode ()

11.57.3.112 native void parma_polyhedra_library::Octagonal_Shape_int64_t::intersection_assign (Octagonal_Shape_int64_t *p*)

11.57.3.113 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::is_bounded ()

11.57.3.114 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::is_discrete ()

11.57.3.115 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::is_disjoint_from (Octagonal_Shape_int64_t *y*)

11.57.3.116 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::is_empty ()

11.57.3.117 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::is_topologically_closed ()

11.57.3.118 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::is_universe ()

11.57.3.119 native void parma_polyhedra_library::Octagonal_Shape_int64_t::limited_BHMZ05_extrapolation_assign (Octagonal_Shape_int64_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.57.3.120 native void parma_polyhedra_library::Octagonal_Shape_int64_t::limited_CC76_extrapolation_assign (Octagonal_Shape_int64_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.57.3.121 static native Pair<Octagonal_Shape_int64_t, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Octagonal_Shape_int64_t::linear_partition (Octagonal_Shape_int64_t *p*, Octagonal_Shape_int64_t *q*) `[static]`

11.57.3.122 native void parma_polyhedra_library::Octagonal_Shape_int64_t::map_space_dimensions (Partial_Function *pfunc*)

11.57.3.123 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.57.3.124 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.57.3.125 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.57.3.126 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.57.3.127 native Congruence_System parma_polyhedra_library::Octagonal_Shape_int64_t::minimized_congruences ()

11.57.3.128 native Constraint_System parma_polyhedra_library::Octagonal_Shape_int64_t::minimized_constraints ()

11.57.3.129 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::OK ()

11.57.3.130 native void parma_polyhedra_library::Octagonal_Shape_int64_t::refine_with_congruence (Congruence *c*)

11.57.3.131 native void parma_polyhedra_library::Octagonal_Shape_int64_t::refine_with_congruences (Congruence_System *c*)

11.57.3.132 native void parma_polyhedra_library::Octagonal_Shape_int64_t::refine_with_constraint (Constraint *c*)

11.57.3.133 native void parma_polyhedra_library::Octagonal_Shape_int64_t::refine_with_constraints (Constraint_System *c*)

11.57.3.134 native Poly_Con_Relation parma_polyhedra_library::Octagonal_Shape_int64_t::relation_with (Congruence *c*)

11.57.3.135 native Poly_Gen_Relation parma_polyhedra_library::Octagonal_Shape_int64_t::relation_with (Generator *c*)

11.57.3.136 native Poly_Con_Relation parma_polyhedra_library::Octagonal_Shape_int64_t::relation_with (Constraint *c*)

11.57.3.137 native void parma_polyhedra_library::Octagonal_Shape_int64_t::remove_higher_space_dimensions (long *new_dimension*)

11.57.3.138 native void parma_polyhedra_library::Octagonal_Shape_int64_t::remove_space_dimensions (Variables_Set *vars*)

11.57.3.139 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::simplify_using_context_assign (Octagonal_Shape_int64_t *p*)

11.57.3.140 native long parma_polyhedra_library::Octagonal_Shape_int64_t::space_dimension ()

11.57.3.141 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::strictly_contains (Octagonal_Shape_int64_t *y*)

11.57.3.142 native void parma_polyhedra_library::Octagonal_Shape_int64_t::swap (Octagonal_Shape_int64_t *y*)

11.57.3.143 native void parma_polyhedra_library::Octagonal_Shape_int64_t::time_elapse_assign (Octagonal_Shape_int64_t *p*)

11.57.3.144 native void parma_polyhedra_library::Octagonal_Shape_int64_t::topological_closure_assign ()

11.57.3.145 native String parma_polyhedra_library::Octagonal_Shape_int64_t::toString ()

11.57.3.146 native long parma_polyhedra_library::Octagonal_Shape_int64_t::total_memory_in_bytes ()

11.57.3.147 native void parma_polyhedra_library::Octagonal_Shape_int64_t::unconstrain_space_dimension (Variable *var*)

11.57.3.148 native void parma_polyhedra_library::Octagonal_Shape_int64_t::unconstrain_space_dimensions (Variables_Set *vars*)

11.57.3.149 native void parma_polyhedra_library::Octagonal_Shape_int64_t::upper_bound_assign (Octagonal_Shape_int64_t *p*)

11.57.3.150 native boolean parma_polyhedra_library::Octagonal_Shape_int64_t::upper_bound_assign_if_exact (Octagonal_Shape_int64_t *y*)

11.57.3.151 native void parma_polyhedra_library::Octagonal_Shape_int64_t::widening_assign (Octagonal_Shape_int64_t *y*, By_Reference< Integer > *tp*)

11.57.3.152 native void parma_polyhedra_library::Octagonal_Shape_int64_t::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

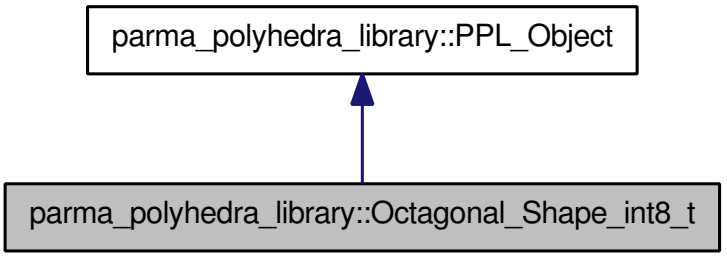
The documentation for this class was generated from the following file:

- Octagonal_Shape_int64_t.java

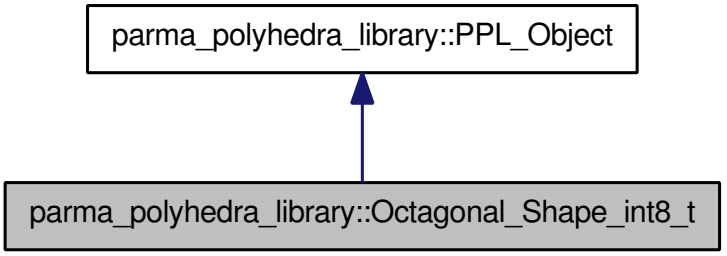
11.58 parma_polyhedra_library::Octagonal_Shape_int8_t Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<int8_t>

Inheritance diagram for parma_polyhedra_library::Octagonal_Shape_int8_t:



Collaboration diagram for parma_polyhedra_library::Octagonal_Shape_int8_t:



Public Member Functions

- Octagonal_Shape_int8_t (long num_dimensions, Degenerate_Element kind)
- Octagonal_Shape_int8_t (Int8_Box y)
- Octagonal_Shape_int8_t (Int16_Box y)
- Octagonal_Shape_int8_t (Int32_Box y)
- Octagonal_Shape_int8_t (Int64_Box y)
- Octagonal_Shape_int8_t (Uint8_Box y)
- Octagonal_Shape_int8_t (Uint16_Box y)
- Octagonal_Shape_int8_t (Uint32_Box y)
- Octagonal_Shape_int8_t (Uint64_Box y)
- Octagonal_Shape_int8_t (Z_Box y)

- Octagonal_Shape_int8_t (Rational_Box y)
- Octagonal_Shape_int8_t (BD_Shape_int8_t y)
- Octagonal_Shape_int8_t (BD_Shape_int16_t y)
- Octagonal_Shape_int8_t (BD_Shape_int32_t y)
- Octagonal_Shape_int8_t (BD_Shape_int64_t y)
- Octagonal_Shape_int8_t (BD_Shape_mpz_class y)
- Octagonal_Shape_int8_t (BD_Shape_mpq_class y)
- Octagonal_Shape_int8_t (Octagonal_Shape_int8_t y)
- Octagonal_Shape_int8_t (Octagonal_Shape_int16_t y)
- Octagonal_Shape_int8_t (Octagonal_Shape_int32_t y)
- Octagonal_Shape_int8_t (Octagonal_Shape_int64_t y)
- Octagonal_Shape_int8_t (Octagonal_Shape_mpz_class y)
- Octagonal_Shape_int8_t (Octagonal_Shape_mpq_class y)
- Octagonal_Shape_int8_t (C_Polyhedron y)
- Octagonal_Shape_int8_t (NNC_Polyhedron y)
- Octagonal_Shape_int8_t (Grid y)
- Octagonal_Shape_int8_t (Float_Box y)
- Octagonal_Shape_int8_t (BD_Shape_float y)
- Octagonal_Shape_int8_t (Octagonal_Shape_float y)
- Octagonal_Shape_int8_t (Double_Box y)
- Octagonal_Shape_int8_t (BD_Shape_double y)
- Octagonal_Shape_int8_t (Octagonal_Shape_double y)
- Octagonal_Shape_int8_t (Long_Double_Box y)
- Octagonal_Shape_int8_t (BD_Shape_long_double y)
- Octagonal_Shape_int8_t (Octagonal_Shape_long_double y)
- Octagonal_Shape_int8_t (Int8_Box y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Int16_Box y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Int32_Box y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Int64_Box y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Uint8_Box y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Uint16_Box y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Uint32_Box y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Uint64_Box y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Z_Box y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Rational_Box y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (BD_Shape_int8_t y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (BD_Shape_int16_t y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (BD_Shape_int32_t y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (BD_Shape_int64_t y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (BD_Shape_mpz_class y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (BD_Shape_mpq_class y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (C_Polyhedron y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (NNC_Polyhedron y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Grid y, Complexity_Class complexity)

- Octagonal_Shape_int8_t (Float_Box y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (BD_Shape_float y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Octagonal_Shape_float y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Double_Box y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (BD_Shape_double y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Octagonal_Shape_double y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Long_Double_Box y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (BD_Shape_long_double y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Octagonal_Shape_int8_t (Constraint_System cs)
- Octagonal_Shape_int8_t (Congruence_System cs)
- Octagonal_Shape_int8_t (Generator_System cs)
- native void swap (Octagonal_Shape_int8_t y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Octagonal_Shape_int8_t y)
- native boolean strictly_contains (Octagonal_Shape_int8_t y)
- native boolean is_disjoint_from (Octagonal_Shape_int8_t y)
- native boolean equals (Octagonal_Shape_int8_t p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)

- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Octagonal_Shape_int8_t p)
- native void upper_bound_assign (Octagonal_Shape_int8_t p)
- native void difference_assign (Octagonal_Shape_int8_t p)
- native void concatenate_assign (Octagonal_Shape_int8_t p)
- native void time_elapse_assign (Octagonal_Shape_int8_t p)
- native boolean upper_bound_assign_if_exact (Octagonal_Shape_int8_t y)
- native boolean simplify_using_context_assign (Octagonal_Shape_int8_t p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void BHMZ05_widening_assign (Octagonal_Shape_int8_t y, By_Reference< Integer > tp)
- native void widening_assign (Octagonal_Shape_int8_t y, By_Reference< Integer > tp)
- native void limited_BHMZ05_extrapolation_assign (Octagonal_Shape_int8_t y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Octagonal_Shape_int8_t y, Constraint_System cs, By_Reference< Integer > tp)
- native void CC76_extrapolation_assign (Octagonal_Shape_int8_t arg, By_Reference< Integer > tp)
- native void CC76_narrowing_assign (Octagonal_Shape_int8_t arg)

- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native int hashCode ()
- native String toString ()

Static Public Member Functions

- static native Pair< Octagonal_Shape_int8_t, Pointset_Powerset_NNC_Polyhedron > linear_partition (Octagonal_Shape_int8_t p, Octagonal_Shape_int8_t q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Octagonal_Shape_int8_t ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)

- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.58.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<int8_t>

Definition at line 33 of file Octagonal_Shape_int8_t.java.

11.58.2 Constructor & Destructor Documentation

11.58.2.1 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.2 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t () [inline, private]

Definition at line 45 of file Octagonal_Shape_int8_t.java.

11.58.2.3 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Int8_Box *y*) [inline]

Definition at line 52 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.4 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Int16_Box *y*) [inline]

Definition at line 56 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.5 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Int32_Box *y*) [inline]

Definition at line 60 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.6 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Int64_Box *y*) [inline]

Definition at line 64 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.7 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Uint8_Box *y*) [inline]

Definition at line 68 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.8 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Uint16_Box *y*) [inline]

Definition at line 72 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.9 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Uint32_Box *y*) [inline]

Definition at line 76 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.10 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Uint64_Box *y*) [inline]

Definition at line 80 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.11 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Z_Box *y*) [inline]

Definition at line 84 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.12 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Rational_Box *y*) [inline]

Definition at line 88 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.13 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.14 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.15 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.16 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.17 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.18 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.19 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.20 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.21 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.22 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.23 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.24 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.25 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (C_Polyhedron *y*) [inline]

Definition at line 140 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.26 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.27 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Grid *y*) [inline]

Definition at line 148 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.28 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Float_Box *y*) [inline]

Definition at line 152 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.29 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (BD_Shape_float *y*) [inline]

Definition at line 156 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.30 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.31 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Double_Box *y*) [inline]

Definition at line 164 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.32 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (BD_Shape_double *y*) [inline]

Definition at line 168 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.33 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.34 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Long_Double_Box *y*) [inline]

Definition at line 176 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.35 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.36 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.37 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.38 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.39 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.40 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.41 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.42 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.43 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.44 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.45 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.46 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.47 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.48 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.49 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.50 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.51 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.52 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.53 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.54 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.55 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.56 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.57 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.58 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.59 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.60 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.61 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.62 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.63 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.64 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.65 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.66 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.67 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.68 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.69 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.70 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.71 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Constraint_System *cs*) [inline]

Definition at line 334 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.72 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Congruence_System *cs*) [inline]

Definition at line 338 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.2.73 parma_polyhedra_library::Octagonal_Shape_int8_t::Octagonal_Shape_int8_t (Generator_System *cs*) [inline]

Definition at line 342 of file Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.58.3 Member Function Documentation

11.58.3.1 native void parma_polyhedra_library::Octagonal_Shape_int8_t::add_congruence (Congruence *c*)

11.58.3.2 native void parma_polyhedra_library::Octagonal_Shape_int8_t::add_congruences (Congruence_System *c*)

11.58.3.3 native void parma_polyhedra_library::Octagonal_Shape_int8_t::add_constraint (Constraint *c*)

11.58.3.4 native void parma_polyhedra_library::Octagonal_Shape_int8_t::add_constraints (Constraint_System *c*)

11.58.3.5 native void parma_polyhedra_library::Octagonal_Shape_int8_t::add_space_dimensions_and_embed (long *m*)

11.58.3.6 native void parma_polyhedra_library::Octagonal_Shape_int8_t::add_space_dimensions_and_project (long *m*)

11.58.3.7 native long parma_polyhedra_library::Octagonal_Shape_int8_t::affine_dimension ()

11.58.3.8 native void parma_polyhedra_library::Octagonal_Shape_int8_t::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.58.3.9 native void parma_polyhedra_library::Octagonal_Shape_int8_t::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.58.3.10 native String parma_polyhedra_library::Octagonal_Shape_int8_t::ascii_dump ()

11.58.3.11 native void parma_polyhedra_library::Octagonal_Shape_int8_t::BHMZ05_widening_assign (Octagonal_Shape_int8_t *y*, By_Reference< Integer > *tp*)

11.58.3.12 native void parma_polyhedra_library::Octagonal_Shape_int8_t::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.58.3.13 native void parma_polyhedra_library::Octagonal_Shape_int8_t::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.58.3.14 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::bounds_from_above (Linear_Expression *expr*)

11.58.3.15 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::bounds_from_below (Linear_Expression *expr*)

11.58.3.16 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.58.3.17 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.58.3.18 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.58.3.19 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (BD_Shape_long_double *y*) [private]

11.58.3.20 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.58.3.21 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Long_Double_Box *y*) [private]

11.58.3.22 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.58.3.23 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.58.3.24 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.58.3.25 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (BD_Shape_double *y*) [private]

11.58.3.26 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.58.3.27 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Double_Box *y*) [private]

11.58.3.28 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.58.3.29 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.58.3.30 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.58.3.31 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (BD_Shape_float *y*) [private]

11.58.3.32 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.58.3.33 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Float_Box *y*) [private]

11.58.3.34 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.58.3.35 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Grid *y*) [private]

11.58.3.36 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.58.3.37 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (NNC_Polyhedron *y*) [private]

11.58.3.38 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.58.3.39 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (C_Polyhedron *y*) [private]

11.58.3.40 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.58.3.41 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.58.3.42 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.58.3.43 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.58.3.44 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.58.3.45 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.58.3.46 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.58.3.47 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.58.3.48 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.58.3.49 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.58.3.50 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.58.3.51 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.58.3.52 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.58.3.53 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.58.3.54 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.58.3.55 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.58.3.56 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.58.3.57 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.58.3.58 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.58.3.59 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.58.3.60 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.58.3.61 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.58.3.62 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.58.3.63 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.58.3.64 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.58.3.65 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Rational_Box *y*) [private]

11.58.3.66 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.58.3.67 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Z_Box *y*) [private]

11.58.3.68 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.58.3.69 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Uint64_Box *y*) [private]

11.58.3.70 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.58.3.71 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Uint32_Box *y*) [private]

11.58.3.72 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.58.3.73 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Uint16_Box *y*) [private]

11.58.3.74 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.58.3.75 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Uint8_Box *y*) [private]

11.58.3.76 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.58.3.77 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Int64_Box *y*) [private]

11.58.3.78 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.58.3.79 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Int32_Box *y*) [private]

11.58.3.80 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.58.3.81 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Int16_Box *y*) [private]

11.58.3.82 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.58.3.83 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Int8_Box *y*) [private]

11.58.3.84 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.58.3.85 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Generator_System *cs*) [private]

11.58.3.86 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Congruence_System *cs*) [private]

11.58.3.87 native void parma_polyhedra_library::Octagonal_Shape_int8_t::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Octagonal_Shape_int8_t().

11.58.3.88 native void parma_polyhedra_library::Octagonal_Shape_int8_t::CC76_-extrapolation_assign (Octagonal_Shape_int8_t *arg*, By_Reference< Integer > *tp*)

11.58.3.89 native void parma_polyhedra_library::Octagonal_Shape_int8_t::CC76_narrowing_-assign (Octagonal_Shape_int8_t *arg*)

11.58.3.90 native void parma_polyhedra_library::Octagonal_Shape_int8_t::concatenate_assign (Octagonal_Shape_int8_t *p*)

11.58.3.91 native Congruence_System parma_polyhedra_library::Octagonal_Shape_int8_t::congruences ()

11.58.3.92 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::constrains (Variable *var*)

11.58.3.93 native Constraint_System parma_polyhedra_library::Octagonal_Shape_int8_t::constraints ()

11.58.3.94 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::contains (Octagonal_Shape_int8_t *y*)

11.58.3.95 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::contains_integer_point ()

11.58.3.96 native void parma_polyhedra_library::Octagonal_Shape_int8_t::difference_assign (Octagonal_Shape_int8_t *p*)

11.58.3.97 native void parma_polyhedra_library::Octagonal_Shape_int8_t::drop_some_non_integer_points (Integer *complexity_threshold*)

11.58.3.98 native void parma_polyhedra_library::Octagonal_Shape_int8_t::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.58.3.99 boolean parma_polyhedra_library::Octagonal_Shape_int8_t::equals (Object *y*) [inline]

Definition at line 465 of file Octagonal_Shape_int8_t.java.

References equals().

11.58.3.100 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::equals (Octagonal_Shape_int8_t *p*)

Referenced by equals().

11.58.3.101 native void parma_polyhedra_library::Octagonal_Shape_int8_t::expand_space_dimension (Variable *var*, long *m*)

11.58.3.102 native long parma_polyhedra_library::Octagonal_Shape_int8_t::external_memory_in_bytes ()

11.58.3.103 native void parma_polyhedra_library::Octagonal_Shape_int8_t::finalize () [protected]

11.58.3.104 native void parma_polyhedra_library::Octagonal_Shape_int8_t::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.58.3.105 native void parma_polyhedra_library::Octagonal_Shape_int8_t::free ()

11.58.3.106 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.58.3.107 native void parma_polyhedra_library::Octagonal_Shape_int8_t::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.58.3.108 native void parma_polyhedra_library::Octagonal_Shape_int8_t::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.58.3.109 native void parma_polyhedra_library::Octagonal_Shape_int8_t::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.58.3.110 native void parma_polyhedra_library::Octagonal_Shape_int8_t::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.58.3.111 native int parma_polyhedra_library::Octagonal_Shape_int8_t::hashCode ()

11.58.3.112 native void parma_polyhedra_library::Octagonal_Shape_int8_t::intersection_assign (Octagonal_Shape_int8_t *p*)

11.58.3.113 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::is_bounded ()

11.58.3.114 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::is_discrete ()

11.58.3.115 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::is_disjoint_from (Octagonal_Shape_int8_t *y*)

11.58.3.116 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::is_empty ()

11.58.3.117 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::is_topologically_closed ()

11.58.3.118 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::is_universe ()

11.58.3.119 native void parma_polyhedra_library::Octagonal_Shape_int8_t::limited_BHMZ05_extrapolation_assign (Octagonal_Shape_int8_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.58.3.120 native void parma_polyhedra_library::Octagonal_Shape_int8_t::limited_CC76_extrapolation_assign (Octagonal_Shape_int8_t *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.58.3.121 static native Pair<Octagonal_Shape_int8_t, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Octagonal_Shape_int8_t::linear_partition (Octagonal_Shape_int8_t *p*, Octagonal_Shape_int8_t *q*) `[static]`

11.58.3.122 native void parma_polyhedra_library::Octagonal_Shape_int8_t::map_space_dimensions (Partial_Function *pfunc*)

11.58.3.123 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.58.3.124 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.58.3.125 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.58.3.126 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.58.3.127 native Congruence_System parma_polyhedra_library::Octagonal_Shape_int8_t::minimized_congruences ()

11.58.3.128 native Constraint_System parma_polyhedra_library::Octagonal_Shape_int8_t::minimized_constraints ()

11.58.3.129 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::OK ()

11.58.3.130 native void parma_polyhedra_library::Octagonal_Shape_int8_t::refine_with_congruence (Congruence *c*)

11.58.3.131 native void parma_polyhedra_library::Octagonal_Shape_int8_t::refine_with_congruences (Congruence_System *c*)

11.58.3.132 native void parma_polyhedra_library::Octagonal_Shape_int8_t::refine_with_constraint (Constraint *c*)

11.58.3.133 native void parma_polyhedra_library::Octagonal_Shape_int8_t::refine_with_constraints (Constraint_System *c*)

11.58.3.134 native Poly_Con_Relation parma_polyhedra_library::Octagonal_Shape_int8_t::relation_with (Congruence *c*)

11.58.3.135 native Poly_Gen_Relation parma_polyhedra_library::Octagonal_Shape_int8_t::relation_with (Generator *c*)

11.58.3.136 native Poly_Con_Relation parma_polyhedra_library::Octagonal_Shape_int8_t::relation_with (Constraint *c*)

11.58.3.137 native void parma_polyhedra_library::Octagonal_Shape_int8_t::remove_higher_space_dimensions (long *new_dimension*)

11.58.3.138 native void parma_polyhedra_library::Octagonal_Shape_int8_t::remove_space_dimensions (Variables_Set *vars*)

11.58.3.139 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::simplify_using_context_assign (Octagonal_Shape_int8_t *p*)

11.58.3.140 native long parma_polyhedra_library::Octagonal_Shape_int8_t::space_dimension ()

11.58.3.141 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::strictly_contains (Octagonal_Shape_int8_t *y*)

11.58.3.142 native void parma_polyhedra_library::Octagonal_Shape_int8_t::swap (Octagonal_Shape_int8_t *y*)

11.58.3.143 native void parma_polyhedra_library::Octagonal_Shape_int8_t::time_elapse_assign (Octagonal_Shape_int8_t *p*)

11.58.3.144 native void parma_polyhedra_library::Octagonal_Shape_int8_t::topological_closure_assign ()

11.58.3.145 native String parma_polyhedra_library::Octagonal_Shape_int8_t::toString ()

11.58.3.146 native long parma_polyhedra_library::Octagonal_Shape_int8_t::total_memory_in_bytes ()

11.58.3.147 native void parma_polyhedra_library::Octagonal_Shape_int8_t::unconstrain_space_dimension (Variable *var*)

11.58.3.148 native void parma_polyhedra_library::Octagonal_Shape_int8_t::unconstrain_space_dimensions (Variables_Set *vars*)

11.58.3.149 native void parma_polyhedra_library::Octagonal_Shape_int8_t::upper_bound_assign (Octagonal_Shape_int8_t *p*)

11.58.3.150 native boolean parma_polyhedra_library::Octagonal_Shape_int8_t::upper_bound_assign_if_exact (Octagonal_Shape_int8_t *y*)

11.58.3.151 native void parma_polyhedra_library::Octagonal_Shape_int8_t::widening_assign (Octagonal_Shape_int8_t *y*, By_Reference< Integer > *tp*)

11.58.3.152 native void parma_polyhedra_library::Octagonal_Shape_int8_t::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

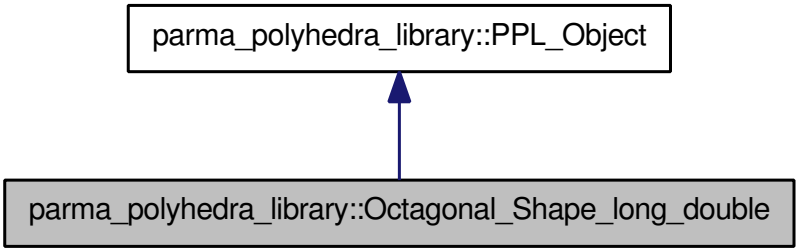
The documentation for this class was generated from the following file:

- Octagonal_Shape_int8_t.java

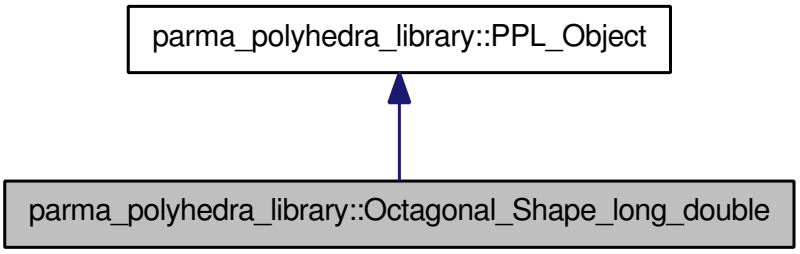
11.59 parma_polyhedra_library::Octagonal_Shape_long_double Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<long double>

Inheritance diagram for parma_polyhedra_library::Octagonal_Shape_long_double:



Collaboration diagram for parma_polyhedra_library::Octagonal_Shape_long_double:



Public Member Functions

- Octagonal_Shape_long_double (long num_dimensions, Degenerate_Element kind)
- Octagonal_Shape_long_double (Int8_Box y)
- Octagonal_Shape_long_double (Int16_Box y)
- Octagonal_Shape_long_double (Int32_Box y)
- Octagonal_Shape_long_double (Int64_Box y)
- Octagonal_Shape_long_double (Uint8_Box y)
- Octagonal_Shape_long_double (Uint16_Box y)
- Octagonal_Shape_long_double (Uint32_Box y)
- Octagonal_Shape_long_double (Uint64_Box y)
- Octagonal_Shape_long_double (Z_Box y)

- Octagonal_Shape_long_double (Rational_Box y)
- Octagonal_Shape_long_double (BD_Shape_int8_t y)
- Octagonal_Shape_long_double (BD_Shape_int16_t y)
- Octagonal_Shape_long_double (BD_Shape_int32_t y)
- Octagonal_Shape_long_double (BD_Shape_int64_t y)
- Octagonal_Shape_long_double (BD_Shape_mpz_class y)
- Octagonal_Shape_long_double (BD_Shape_mpq_class y)
- Octagonal_Shape_long_double (Octagonal_Shape_int8_t y)
- Octagonal_Shape_long_double (Octagonal_Shape_int16_t y)
- Octagonal_Shape_long_double (Octagonal_Shape_int32_t y)
- Octagonal_Shape_long_double (Octagonal_Shape_int64_t y)
- Octagonal_Shape_long_double (Octagonal_Shape_mpz_class y)
- Octagonal_Shape_long_double (Octagonal_Shape_mpq_class y)
- Octagonal_Shape_long_double (C_Polyhedron y)
- Octagonal_Shape_long_double (NNC_Polyhedron y)
- Octagonal_Shape_long_double (Grid y)
- Octagonal_Shape_long_double (Float_Box y)
- Octagonal_Shape_long_double (BD_Shape_float y)
- Octagonal_Shape_long_double (Octagonal_Shape_float y)
- Octagonal_Shape_long_double (Double_Box y)
- Octagonal_Shape_long_double (BD_Shape_double y)
- Octagonal_Shape_long_double (Octagonal_Shape_double y)
- Octagonal_Shape_long_double (Long_Double_Box y)
- Octagonal_Shape_long_double (BD_Shape_long_double y)
- Octagonal_Shape_long_double (Octagonal_Shape_long_double y)
- Octagonal_Shape_long_double (Int8_Box y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Int16_Box y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Int32_Box y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Int64_Box y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Uint8_Box y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Uint16_Box y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Uint32_Box y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Uint64_Box y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Z_Box y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Rational_Box y, Complexity_Class complexity)
- Octagonal_Shape_long_double (BD_Shape_int8_t y, Complexity_Class complexity)
- Octagonal_Shape_long_double (BD_Shape_int16_t y, Complexity_Class complexity)
- Octagonal_Shape_long_double (BD_Shape_int32_t y, Complexity_Class complexity)
- Octagonal_Shape_long_double (BD_Shape_int64_t y, Complexity_Class complexity)
- Octagonal_Shape_long_double (BD_Shape_mpz_class y, Complexity_Class complexity)
- Octagonal_Shape_long_double (BD_Shape_mpq_class y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Octagonal_Shape_long_double (C_Polyhedron y, Complexity_Class complexity)
- Octagonal_Shape_long_double (NNC_Polyhedron y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Grid y, Complexity_Class complexity)

- Octagonal_Shape_long_double (Float_Box y, Complexity_Class complexity)
- Octagonal_Shape_long_double (BD_Shape_float y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Octagonal_Shape_float y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Double_Box y, Complexity_Class complexity)
- Octagonal_Shape_long_double (BD_Shape_double y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Octagonal_Shape_double y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Long_Double_Box y, Complexity_Class complexity)
- Octagonal_Shape_long_double (BD_Shape_long_double y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Octagonal_Shape_long_double (Constraint_System cs)
- Octagonal_Shape_long_double (Congruence_System cs)
- Octagonal_Shape_long_double (Generator_System cs)
- native void swap (Octagonal_Shape_long_double y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Octagonal_Shape_long_double y)
- native boolean strictly_contains (Octagonal_Shape_long_double y)
- native boolean is_disjoint_from (Octagonal_Shape_long_double y)
- native boolean equals (Octagonal_Shape_long_double p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)

- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Octagonal_Shape_long_double p)
- native void upper_bound_assign (Octagonal_Shape_long_double p)
- native void difference_assign (Octagonal_Shape_long_double p)
- native void concatenate_assign (Octagonal_Shape_long_double p)
- native void time_elapse_assign (Octagonal_Shape_long_double p)
- native boolean upper_bound_assign_if_exact (Octagonal_Shape_long_double y)
- native boolean simplify_using_context_assign (Octagonal_Shape_long_double p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void BHMZ05_widening_assign (Octagonal_Shape_long_double y, By_Reference< Integer > tp)
- native void widening_assign (Octagonal_Shape_long_double y, By_Reference< Integer > tp)
- native void limited_BHMZ05_extrapolation_assign (Octagonal_Shape_long_double y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Octagonal_Shape_long_double y, Constraint_System cs, By_Reference< Integer > tp)
- native void CC76_extrapolation_assign (Octagonal_Shape_long_double arg, By_Reference< Integer > tp)
- native void CC76_narrowing_assign (Octagonal_Shape_long_double arg)

- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native int hashCode ()
- native String toString ()

Static Public Member Functions

- static native Pair< Octagonal_Shape_long_double, Pointset_Powerset_NNC_Polyhedron > linear_partition (Octagonal_Shape_long_double p, Octagonal_Shape_long_double q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Octagonal_Shape_long_double ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)

- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.59.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<long double>

Definition at line 33 of file Octagonal_Shape_long_double.java.

11.59.2 Constructor & Destructor Documentation

11.59.2.1 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.2 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double () [inline, private]

Definition at line 45 of file Octagonal_Shape_long_double.java.

11.59.2.3 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Int8_Box *y*) [inline]

Definition at line 52 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.4 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Int16_Box *y*) [inline]

Definition at line 56 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.5 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Int32_Box *y*) [inline]

Definition at line 60 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.6 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Int64_Box *y*) [inline]

Definition at line 64 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.7 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Uint8_Box *y*) [inline]

Definition at line 68 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.8 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Uint16_Box *y*) [inline]

Definition at line 72 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.9 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Uint32_Box *y*) [inline]

Definition at line 76 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.10 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Uint64_Box *y*) [inline]

Definition at line 80 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.11 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Z_Box *y*) [inline]

Definition at line 84 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.12 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Rational_Box *y*) [inline]

Definition at line 88 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.13 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.14 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.15 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.16 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.17 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.18 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.19 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.20 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.21 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.22 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.23 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.24 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.25 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (C_Polyhedron *y*) [inline]

Definition at line 140 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.26 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.27 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Grid *y*) [inline]

Definition at line 148 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.28 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Float_Box *y*) [inline]

Definition at line 152 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.29 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (BD_Shape_float *y*) [inline]

Definition at line 156 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.30 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.31 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Double_Box *y*) [inline]

Definition at line 164 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.32 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (BD_Shape_double *y*) [inline]

Definition at line 168 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.33 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.34 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Long_Double_Box *y*) [inline]

Definition at line 176 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.35 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.36 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.37 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.38 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.39 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.40 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.41 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.42 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.43 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.44 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.45 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.46 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.47 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.48 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.49 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.50 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.51 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.52 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.53 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.54 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.55 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.56 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.57 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.58 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.59 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.60 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.61 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.62 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.63 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.64 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.65 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.66 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.67 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.68 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.69 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.70 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.71 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Constraint_System *cs*) [inline]

Definition at line 334 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.72 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Congruence_System *cs*) [inline]

Definition at line 338 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.2.73 parma_polyhedra_library::Octagonal_Shape_long_double::Octagonal_Shape_long_double (Generator_System *cs*) [inline]

Definition at line 342 of file Octagonal_Shape_long_double.java.

References build_cpp_object().

11.59.3 Member Function Documentation

11.59.3.1 native void parma_polyhedra_library::Octagonal_Shape_long_double::add_congruence (Congruence *c*)

11.59.3.2 native void parma_polyhedra_library::Octagonal_Shape_long_double::add_congruences (Congruence_System *c*)

11.59.3.3 native void parma_polyhedra_library::Octagonal_Shape_long_double::add_constraint (Constraint *c*)

11.59.3.4 native void parma_polyhedra_library::Octagonal_Shape_long_double::add_constraints (Constraint_System *c*)

11.59.3.5 native void parma_polyhedra_library::Octagonal_Shape_long_double::add_space_dimensions_and_embed (long *m*)

11.59.3.6 native void parma_polyhedra_library::Octagonal_Shape_long_double::add_space_dimensions_and_project (long *m*)

11.59.3.7 native long parma_polyhedra_library::Octagonal_Shape_long_double::affine_dimension ()

11.59.3.8 native void parma_polyhedra_library::Octagonal_Shape_long_double::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.59.3.9 native void parma_polyhedra_library::Octagonal_Shape_long_double::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.59.3.10 native String parma_polyhedra_library::Octagonal_Shape_long_double::ascii_dump ()

11.59.3.11 native void parma_polyhedra_library::Octagonal_Shape_long_double::BHMZ05_widening_assign (Octagonal_Shape_long_double *y*, By_Reference< Integer > *tp*)

11.59.3.12 native void parma_polyhedra_library::Octagonal_Shape_long_double::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.59.3.13 native void parma_polyhedra_library::Octagonal_Shape_long_double::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.59.3.14 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::bounds_from_above (Linear_Expression *expr*)

11.59.3.15 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::bounds_from_below (Linear_Expression *expr*)

11.59.3.16 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.59.3.17 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.59.3.18 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.59.3.19 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (BD_Shape_long_double *y*) `[private]`

11.59.3.20 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) `[private]`

11.59.3.21 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Long_Double_Box *y*) `[private]`

11.59.3.22 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.59.3.23 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.59.3.24 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.59.3.25 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (BD_Shape_double *y*) [private]

11.59.3.26 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.59.3.27 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Double_Box *y*) [private]

11.59.3.28 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.59.3.29 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.59.3.30 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.59.3.31 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (BD_Shape_float *y*) [private]

11.59.3.32 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.59.3.33 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Float_Box *y*) [private]

11.59.3.34 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.59.3.35 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Grid *y*) [private]

11.59.3.36 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.59.3.37 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (NNC_Polyhedron *y*) [private]

11.59.3.38 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.59.3.39 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (C_Polyhedron *y*) [private]

11.59.3.40 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.59.3.41 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.59.3.42 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.59.3.43 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.59.3.44 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.59.3.45 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.59.3.46 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.59.3.47 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.59.3.48 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.59.3.49 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.59.3.50 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.59.3.51 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.59.3.52 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.59.3.53 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.59.3.54 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.59.3.55 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.59.3.56 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.59.3.57 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.59.3.58 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.59.3.59 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.59.3.60 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.59.3.61 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.59.3.62 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.59.3.63 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.59.3.64 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.59.3.65 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Rational_Box *y*) [private]

11.59.3.66 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.59.3.67 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Z_Box *y*) [private]

11.59.3.68 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.59.3.69 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Uint64_Box *y*) [private]

11.59.3.70 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.59.3.71 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Uint32_Box *y*) [private]

11.59.3.72 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.59.3.73 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Uint16_Box *y*) [private]

11.59.3.74 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.59.3.75 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Uint8_Box *y*) [private]

11.59.3.76 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.59.3.77 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Int64_Box *y*) [private]

11.59.3.78 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.59.3.79 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Int32_Box *y*) [private]

11.59.3.80 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.59.3.81 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Int16_Box *y*) [private]

11.59.3.82 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.59.3.83 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Int8_Box *y*) [private]

11.59.3.84 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.59.3.85 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Generator_System *cs*) [private]

11.59.3.86 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Congruence_System *cs*) [private]

11.59.3.87 native void parma_polyhedra_library::Octagonal_Shape_long_double::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Octagonal_Shape_long_double().

11.59.3.88 native void parma_polyhedra_library::Octagonal_Shape_long_double::CC76_extrapolation_assign (Octagonal_Shape_long_double *arg*, By_Reference< Integer > *tp*)

11.59.3.89 native void parma_polyhedra_library::Octagonal_Shape_long_double::CC76_narrowing_assign (Octagonal_Shape_long_double *arg*)

11.59.3.90 native void parma_polyhedra_library::Octagonal_Shape_long_double::concatenate_assign (Octagonal_Shape_long_double *p*)

11.59.3.91 native Congruence_System parma_polyhedra_library::Octagonal_Shape_long_double::congruences ()

11.59.3.92 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::constrains (Variable *var*)

11.59.3.93 native Constraint_System parma_polyhedra_library::Octagonal_Shape_long_double::constraints ()

11.59.3.94 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::contains (Octagonal_Shape_long_double *y*)

11.59.3.95 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::contains_integer_point ()

11.59.3.96 native void parma_polyhedra_library::Octagonal_Shape_long_double::difference_assign (Octagonal_Shape_long_double *p*)

11.59.3.97 native void parma_polyhedra_library::Octagonal_Shape_long_double::drop_some_non_integer_points (Integer *complexity_threshold*)

11.59.3.98 native void parma_polyhedra_library::Octagonal_Shape_long_double::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.59.3.99 boolean parma_polyhedra_library::Octagonal_Shape_long_double::equals (Object *y*) [inline]

Definition at line 465 of file Octagonal_Shape_long_double.java.

References equals().

11.59.3.100 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::equals (Octagonal_Shape_long_double *p*)

Referenced by equals().

11.59.3.101 native void parma_polyhedra_library::Octagonal_Shape_long_double::expand_space_dimension (Variable *var*, long *m*)

11.59.3.102 native long parma_polyhedra_library::Octagonal_Shape_long_double::external_memory_in_bytes ()

11.59.3.103 native void parma_polyhedra_library::Octagonal_Shape_long_double::finalize () [protected]

11.59.3.104 native void parma_polyhedra_library::Octagonal_Shape_long_double::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.59.3.105 native void parma_polyhedra_library::Octagonal_Shape_long_double::free ()

11.59.3.106 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.59.3.107 native void parma_polyhedra_library::Octagonal_Shape_long_double::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.59.3.108 native void parma_polyhedra_library::Octagonal_Shape_long_double::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.59.3.109 native void parma_polyhedra_library::Octagonal_Shape_long_double::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.59.3.110 native void parma_polyhedra_library::Octagonal_Shape_long_double::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.59.3.111 native int parma_polyhedra_library::Octagonal_Shape_long_double::hashCode ()

11.59.3.112 native void parma_polyhedra_library::Octagonal_Shape_long_double::intersection_assign (Octagonal_Shape_long_double *p*)

11.59.3.113 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::is_bounded ()

11.59.3.114 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::is_discrete ()

11.59.3.115 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::is_disjoint_from (Octagonal_Shape_long_double *y*)

11.59.3.116 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::is_empty ()

11.59.3.117 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::is_topologically_closed ()

11.59.3.118 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::is_universe ()

11.59.3.119 native void parma_polyhedra_library::Octagonal_Shape_long_double::limited_BHMZ05_extrapolation_assign (Octagonal_Shape_long_double *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.59.3.120 native void parma_polyhedra_library::Octagonal_Shape_long_double::limited_CC76_extrapolation_assign (Octagonal_Shape_long_double *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.59.3.121 static native Pair<Octagonal_Shape_long_double, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Octagonal_Shape_long_double::linear_partition (Octagonal_Shape_long_double *p*, Octagonal_Shape_long_double *q*) [static]

11.59.3.122 native void parma_polyhedra_library::Octagonal_Shape_long_double::map_space_dimensions (Partial_Function *pfunc*)

11.59.3.123 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.59.3.124 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.59.3.125 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.59.3.126 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.59.3.127 native Congruence_System parma_polyhedra_library::Octagonal_Shape_long_double::minimized_congruences ()

11.59.3.128 native Constraint_System parma_polyhedra_library::Octagonal_Shape_long_double::minimized_constraints ()

11.59.3.129 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::OK ()

11.59.3.130 native void parma_polyhedra_library::Octagonal_Shape_long_double::refine_with_congruence (Congruence *c*)

11.59.3.131 native void parma_polyhedra_library::Octagonal_Shape_long_double::refine_with_congruences (Congruence_System *c*)

11.59.3.132 native void parma_polyhedra_library::Octagonal_Shape_long_double::refine_with_constraint (Constraint *c*)

11.59.3.133 native void parma_polyhedra_library::Octagonal_Shape_long_double::refine_with_constraints (Constraint_System *c*)

11.59.3.134 native Poly_Con_Relation parma_polyhedra_library::Octagonal_Shape_long_double::relation_with (Congruence *c*)

11.59.3.135 native Poly_Gen_Relation parma_polyhedra_library::Octagonal_Shape_long_double::relation_with (Generator *c*)

11.59.3.136 native Poly_Con_Relation parma_polyhedra_library::Octagonal_Shape_long_double::relation_with (Constraint *c*)

11.59.3.137 native void parma_polyhedra_library::Octagonal_Shape_long_double::remove_higher_space_dimensions (long *new_dimension*)

11.59.3.138 native void parma_polyhedra_library::Octagonal_Shape_long_double::remove_space_dimensions (Variables_Set *vars*)

11.59.3.139 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::simplify_using_context_assign (Octagonal_Shape_long_double *p*)

11.59.3.140 native long parma_polyhedra_library::Octagonal_Shape_long_double::space_dimension ()

11.59.3.141 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::strictly_contains (Octagonal_Shape_long_double *y*)

11.59.3.142 native void parma_polyhedra_library::Octagonal_Shape_long_double::swap (Octagonal_Shape_long_double *y*)

11.59.3.143 native void parma_polyhedra_library::Octagonal_Shape_long_double::time_elapse_assign (Octagonal_Shape_long_double *p*)

11.59.3.144 native void parma_polyhedra_library::Octagonal_Shape_long_double::topological_closure_assign ()

11.59.3.145 native String parma_polyhedra_library::Octagonal_Shape_long_double::toString ()

11.59.3.146 native long parma_polyhedra_library::Octagonal_Shape_long_double::total_memory_in_bytes ()

11.59.3.147 native void parma_polyhedra_library::Octagonal_Shape_long_double::unconstrain_space_dimension (Variable *var*)

11.59.3.148 native void parma_polyhedra_library::Octagonal_Shape_long_double::unconstrain_space_dimensions (Variables_Set *vars*)

11.59.3.149 native void parma_polyhedra_library::Octagonal_Shape_long_double::upper_bound_assign (Octagonal_Shape_long_double *p*)

11.59.3.150 native boolean parma_polyhedra_library::Octagonal_Shape_long_double::upper_bound_assign_if_exact (Octagonal_Shape_long_double *y*)

11.59.3.151 native void parma_polyhedra_library::Octagonal_Shape_long_double::widening_assign (Octagonal_Shape_long_double *y*, By_Reference< Integer > *tp*)

11.59.3.152 native void parma_polyhedra_library::Octagonal_Shape_long_double::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

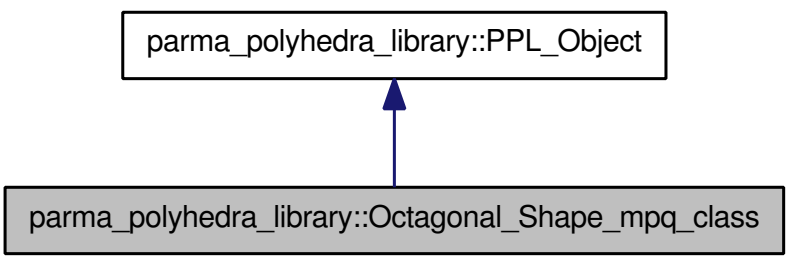
The documentation for this class was generated from the following file:

- Octagonal_Shape_long_double.java

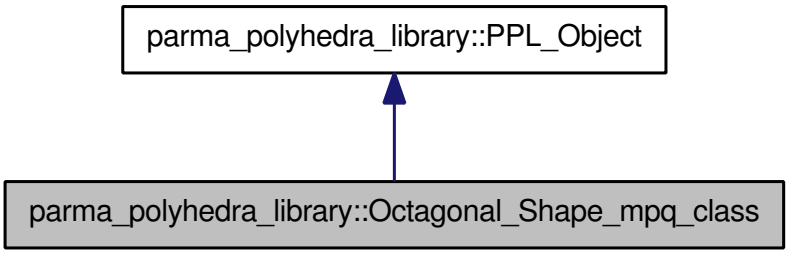
11.60 parma_polyhedra_library::Octagonal_Shape_mpq_class Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<mpq_class>

Inheritance diagram for parma_polyhedra_library::Octagonal_Shape_mpq_class:



Collaboration diagram for parma_polyhedra_library::Octagonal_Shape_mpq_class:



Public Member Functions

- Octagonal_Shape_mpq_class (long num_dimensions, Degenerate_Element kind)
- Octagonal_Shape_mpq_class (Int8_Box y)
- Octagonal_Shape_mpq_class (Int16_Box y)
- Octagonal_Shape_mpq_class (Int32_Box y)
- Octagonal_Shape_mpq_class (Int64_Box y)
- Octagonal_Shape_mpq_class (Uint8_Box y)
- Octagonal_Shape_mpq_class (Uint16_Box y)
- Octagonal_Shape_mpq_class (Uint32_Box y)
- Octagonal_Shape_mpq_class (Uint64_Box y)
- Octagonal_Shape_mpq_class (Z_Box y)
- Octagonal_Shape_mpq_class (Rational_Box y)
- Octagonal_Shape_mpq_class (BD_Shape_int8_t y)
- Octagonal_Shape_mpq_class (BD_Shape_int16_t y)
- Octagonal_Shape_mpq_class (BD_Shape_int32_t y)
- Octagonal_Shape_mpq_class (BD_Shape_int64_t y)
- Octagonal_Shape_mpq_class (BD_Shape_mpz_class y)
- Octagonal_Shape_mpq_class (BD_Shape_mpq_class y)
- Octagonal_Shape_mpq_class (Octagonal_Shape_int8_t y)
- Octagonal_Shape_mpq_class (Octagonal_Shape_int16_t y)
- Octagonal_Shape_mpq_class (Octagonal_Shape_int32_t y)
- Octagonal_Shape_mpq_class (Octagonal_Shape_int64_t y)
- Octagonal_Shape_mpq_class (Octagonal_Shape_mpz_class y)
- Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class y)
- Octagonal_Shape_mpq_class (C_Polyhedron y)
- Octagonal_Shape_mpq_class (NNC_Polyhedron y)
- Octagonal_Shape_mpq_class (Grid y)
- Octagonal_Shape_mpq_class (Float_Box y)
- Octagonal_Shape_mpq_class (BD_Shape_float y)
- Octagonal_Shape_mpq_class (Octagonal_Shape_float y)
- Octagonal_Shape_mpq_class (Double_Box y)
- Octagonal_Shape_mpq_class (BD_Shape_double y)
- Octagonal_Shape_mpq_class (Octagonal_Shape_double y)
- Octagonal_Shape_mpq_class (Long_Double_Box y)
- Octagonal_Shape_mpq_class (BD_Shape_long_double y)
- Octagonal_Shape_mpq_class (Octagonal_Shape_long_double y)
- Octagonal_Shape_mpq_class (Int8_Box y, Complexity_Class complexity)

- Octagonal_Shape_mpq_class (Int16_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Int32_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Int64_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Uint8_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Uint16_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Uint32_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Uint64_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Z_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Rational_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (BD_Shape_int8_t y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (BD_Shape_int16_t y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (BD_Shape_int32_t y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (BD_Shape_int64_t y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (BD_Shape_mpz_class y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (BD_Shape_mpq_class y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (C_Polyhedron y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (NNC_Polyhedron y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Grid y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Float_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (BD_Shape_float y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Octagonal_Shape_float y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Double_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (BD_Shape_double y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Octagonal_Shape_double y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Long_Double_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (BD_Shape_long_double y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Octagonal_Shape_mpq_class (Constraint_System cs)
- Octagonal_Shape_mpq_class (Congruence_System cs)
- Octagonal_Shape_mpq_class (Generator_System cs)
- native void swap (Octagonal_Shape_mpq_class y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()

- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Octagonal_Shape_mpq_class y)
- native boolean strictly_contains (Octagonal_Shape_mpq_class y)
- native boolean is_disjoint_from (Octagonal_Shape_mpq_class y)
- native boolean equals (Octagonal_Shape_mpq_class p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Octagonal_Shape_mpq_class p)
- native void upper_bound_assign (Octagonal_Shape_mpq_class p)
- native void difference_assign (Octagonal_Shape_mpq_class p)
- native void concatenate_assign (Octagonal_Shape_mpq_class p)
- native void time_elapse_assign (Octagonal_Shape_mpq_class p)
- native boolean upper_bound_assign_if_exact (Octagonal_Shape_mpq_class y)
- native boolean simplify_using_context_assign (Octagonal_Shape_mpq_class p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)

- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void BHMZ05_widening_assign (Octagonal_Shape_mpq_class y, By_Reference< Integer > tp)
- native void widening_assign (Octagonal_Shape_mpq_class y, By_Reference< Integer > tp)
- native void limited_BHMZ05_extrapolation_assign (Octagonal_Shape_mpq_class y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Octagonal_Shape_mpq_class y, Constraint_System cs, By_Reference< Integer > tp)
- native void CC76_extrapolation_assign (Octagonal_Shape_mpq_class arg, By_Reference< Integer > tp)
- native void CC76_narrowing_assign (Octagonal_Shape_mpq_class arg)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native int hashCode ()
- native String toString ()

Static Public Member Functions

- static native Pair< Octagonal_Shape_mpq_class, Pointset_Powerset_NNC_Polyhedron > linear_partition (Octagonal_Shape_mpq_class p, Octagonal_Shape_mpq_class q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Octagonal_Shape_mpq_class ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)

- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)

- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.60.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<mpq_class>

Definition at line 33 of file Octagonal_Shape_mpq_class.java.

11.60.2 Constructor & Destructor Documentation

11.60.2.1 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.2 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class () [inline, private]

Definition at line 45 of file Octagonal_Shape_mpq_class.java.

11.60.2.3 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Int8_Box *y*) [inline]

Definition at line 52 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.4 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Int16_Box *y*) [inline]

Definition at line 56 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.5 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Int32_Box *y*) [inline]

Definition at line 60 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.6 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Int64_Box *y*) [inline]

Definition at line 64 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.7 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Uint8_Box *y*) [inline]

Definition at line 68 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.8 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Uint16_Box *y*) [inline]

Definition at line 72 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.9 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Uint32_Box *y*) [inline]

Definition at line 76 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.10 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Uint64_Box *y*) [inline]

Definition at line 80 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.11 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Z_Box *y*) [inline]

Definition at line 84 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.12 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Rational_Box *y*) [inline]

Definition at line 88 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.13 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.14 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.15 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.16 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.17 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.18 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.19 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.20 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.21 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.22 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.23 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.24 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.25 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (C_Polyhedron *y*) [inline]

Definition at line 140 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.26 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.27 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Grid *y*) [inline]

Definition at line 148 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.28 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Float_Box *y*) [inline]

Definition at line 152 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.29 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (BD_Shape_float *y*) [inline]

Definition at line 156 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.30 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.31 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Double_Box *y*) [inline]

Definition at line 164 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.32 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (BD_Shape_double *y*) [inline]

Definition at line 168 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.33 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.34 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Long_Double_Box *y*) [inline]

Definition at line 176 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.35 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.36 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.37 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.38 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.39 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.40 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.41 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.42 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.43 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.44 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.45 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.46 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.47 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.48 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.49 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.50 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.51 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.52 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.53 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.54 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.55 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.56 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.57 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.58 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.59 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.60 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.61 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.62 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.63 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.64 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.65 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.66 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.67 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.68 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.69 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.70 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.71 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Constraint_System *cs*) [inline]

Definition at line 334 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.72 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Congruence_System *cs*) [inline]

Definition at line 338 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.2.73 parma_polyhedra_library::Octagonal_Shape_mpq_class::Octagonal_Shape_mpq_class (Generator_System *cs*) [inline]

Definition at line 342 of file Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.60.3 Member Function Documentation

11.60.3.1 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::add_congruence (Congruence *c*)

11.60.3.2 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::add_congruences (Congruence_System *c*)

11.60.3.3 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::add_constraint (Constraint *c*)

11.60.3.4 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::add_constraints (Constraint_System *c*)

11.60.3.5 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::add_space_dimensions_and_embed (long *m*)

11.60.3.6 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::add_space_dimensions_and_project (long *m*)

11.60.3.7 native long parma_polyhedra_library::Octagonal_Shape_mpq_class::affine_dimension ()

11.60.3.8 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.60.3.9 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.60.3.10 native String parma_polyhedra_library::Octagonal_Shape_mpq_class::ascii_dump ()

11.60.3.11 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::BHMZ05_widening_assign (Octagonal_Shape_mpq_class *y*, By_Reference< Integer > *tp*)

11.60.3.12 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.60.3.13 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.60.3.14 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::bounds_from_above (Linear_Expression *expr*)

11.60.3.15 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::bounds_from_below (Linear_Expression *expr*)

11.60.3.16 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.60.3.17 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_long_double *y*) [private]

11.60.3.18 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.60.3.19 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (BD_Shape_long_double *y*) [private]

11.60.3.20 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.60.3.21 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Long_Double_Box *y*) [private]

11.60.3.22 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.60.3.23 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.60.3.24 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.60.3.25 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (BD_Shape_double *y*) [private]

11.60.3.26 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.60.3.27 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Double_Box *y*) [private]

11.60.3.28 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.60.3.29 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.60.3.30 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.60.3.31 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (BD_Shape_float *y*) [private]

11.60.3.32 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.60.3.33 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Float_Box *y*) [private]

11.60.3.34 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.60.3.35 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Grid *y*) [private]

11.60.3.36 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.60.3.37 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (NNC_Polyhedron *y*) [private]

11.60.3.38 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.60.3.39 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (C_Polyhedron *y*) [private]

11.60.3.40 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.60.3.41 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.60.3.42 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.60.3.43 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.60.3.44 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.60.3.45 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.60.3.46 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.60.3.47 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.60.3.48 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.60.3.49 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.60.3.50 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.60.3.51 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.60.3.52 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.60.3.53 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.60.3.54 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.60.3.55 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.60.3.56 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.60.3.57 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.60.3.58 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.60.3.59 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.60.3.60 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.60.3.61 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.60.3.62 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.60.3.63 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.60.3.64 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.60.3.65 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Rational_Box *y*) [private]

11.60.3.66 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.60.3.67 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Z_Box *y*) [private]

11.60.3.68 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.60.3.69 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Uint64_Box *y*) [private]

11.60.3.70 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.60.3.71 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Uint32_Box *y*) [private]

11.60.3.72 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.60.3.73 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Uint16_Box *y*) [private]

11.60.3.74 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.60.3.75 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Uint8_Box *y*) [private]

11.60.3.76 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.60.3.77 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Int64_Box *y*) [private]

11.60.3.78 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.60.3.79 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Int32_Box *y*) [private]

11.60.3.80 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.60.3.81 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Int16_Box *y*) [private]

11.60.3.82 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.60.3.83 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Int8_Box *y*) [private]

11.60.3.84 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.60.3.85 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Generator_System *cs*) [private]

11.60.3.86 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Congruence_System *cs*) [private]

11.60.3.87 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Octagonal_Shape_mpq_class().

11.60.3.88 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::CC76_-extrapolation_assign (Octagonal_Shape_mpq_class *arg*, By_Reference< Integer > *tp*)

11.60.3.89 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::CC76_narrowing_assign (Octagonal_Shape_mpq_class *arg*)

11.60.3.90 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::concatenate_assign (Octagonal_Shape_mpq_class *p*)

11.60.3.91 native Congruence_System parma_polyhedra_library::Octagonal_Shape_mpq_class::congruences ()

11.60.3.92 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::constrains (Variable *var*)

11.60.3.93 native Constraint_System parma_polyhedra_library::Octagonal_Shape_mpq_class::constraints ()

11.60.3.94 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::contains (Octagonal_Shape_mpq_class *y*)

11.60.3.95 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::contains_integer_point ()

11.60.3.96 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::difference_assign (Octagonal_Shape_mpq_class *p*)

11.60.3.97 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::drop_some_non_integer_points (Integer *complexity_threshold*)

11.60.3.98 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.60.3.99 boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::equals (Object *y*) [inline]

Definition at line 465 of file Octagonal_Shape_mpq_class.java.

References equals().

11.60.3.100 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::equals (Octagonal_Shape_mpq_class *p*)

Referenced by equals().

11.60.3.101 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::expand_space_dimension (Variable *var*, long *m*)

11.60.3.102 native long parma_polyhedra_library::Octagonal_Shape_mpq_class::external_memory_in_bytes ()

11.60.3.103 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::finalize () [protected]

11.60.3.104 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.60.3.105 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::free ()

11.60.3.106 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.60.3.107 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.60.3.108 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.60.3.109 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.60.3.110 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.60.3.111 native int parma_polyhedra_library::Octagonal_Shape_mpq_class::hashCode ()

11.60.3.112 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::intersection_assign (Octagonal_Shape_mpq_class *p*)

11.60.3.113 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::is_bounded ()

11.60.3.114 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::is_discrete ()

11.60.3.115 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::is_disjoint_from (Octagonal_Shape_mpq_class *y*)

11.60.3.116 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::is_empty ()

11.60.3.117 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::is_topologically_closed ()

11.60.3.118 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::is_universe ()

11.60.3.119 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::limited_BHMZ05_extrapolation_assign (Octagonal_Shape_mpq_class *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.60.3.120 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::limited_CC76_extrapolation_assign (Octagonal_Shape_mpq_class *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.60.3.121 static native Pair<Octagonal_Shape_mpq_class, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Octagonal_Shape_mpq_class::linear_partition (Octagonal_Shape_mpq_class *p*, Octagonal_Shape_mpq_class *q*) `[static]`

11.60.3.122 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::map_space_dimensions (Partial_Function *pfunc*)

11.60.3.123 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.60.3.124 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.60.3.125 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.60.3.126 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.60.3.127 native Congruence_System parma_polyhedra_library::Octagonal_Shape_mpq_class::minimized_congruences ()

11.60.3.128 native Constraint_System parma_polyhedra_library::Octagonal_Shape_mpq_class::minimized_constraints ()

11.60.3.129 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::OK ()

11.60.3.130 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::refine_with_congruence (Congruence *c*)

11.60.3.131 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::refine_with_congruences (Congruence_System *c*)

11.60.3.132 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::refine_with_constraint (Constraint *c*)

11.60.3.133 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::refine_with_constraints (Constraint_System *c*)

11.60.3.134 native Poly_Con_Relation parma_polyhedra_library::Octagonal_Shape_mpq_class::relation_with (Congruence *c*)

11.60.3.135 native Poly_Gen_Relation parma_polyhedra_library::Octagonal_Shape_mpq_class::relation_with (Generator *c*)

11.60.3.136 native Poly_Con_Relation parma_polyhedra_library::Octagonal_Shape_mpq_class::relation_with (Constraint *c*)

11.60.3.137 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::remove_higher_space_dimensions (long *new_dimension*)

11.60.3.138 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::remove_space_dimensions (Variables_Set *vars*)

11.60.3.139 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::simplify_using_context_assign (Octagonal_Shape_mpq_class *p*)

11.60.3.140 native long parma_polyhedra_library::Octagonal_Shape_mpq_class::space_dimension ()

11.60.3.141 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::strictly_contains (Octagonal_Shape_mpq_class *y*)

11.60.3.142 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::swap (Octagonal_Shape_mpq_class *y*)

11.60.3.143 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::time_elapse_assign (Octagonal_Shape_mpq_class *p*)

11.60.3.144 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::topological_closure_assign ()

11.60.3.145 native String parma_polyhedra_library::Octagonal_Shape_mpq_class::toString ()

11.60.3.146 native long parma_polyhedra_library::Octagonal_Shape_mpq_class::total_memory_in_bytes ()

11.60.3.147 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::unconstrain_space_dimension (Variable *var*)

11.60.3.148 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::unconstrain_space_dimensions (Variables_Set *vars*)

11.60.3.149 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::upper_bound_assign (Octagonal_Shape_mpq_class *p*)

11.60.3.150 native boolean parma_polyhedra_library::Octagonal_Shape_mpq_class::upper_bound_assign_if_exact (Octagonal_Shape_mpq_class *y*)

11.60.3.151 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::widening_assign (Octagonal_Shape_mpq_class *y*, By_Reference< Integer > *tp*)

11.60.3.152 native void parma_polyhedra_library::Octagonal_Shape_mpq_class::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

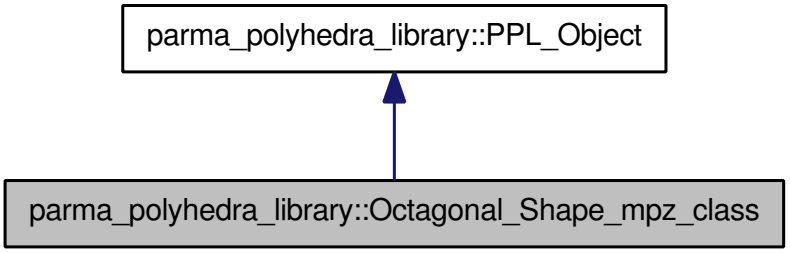
The documentation for this class was generated from the following file:

- Octagonal_Shape_mpq_class.java

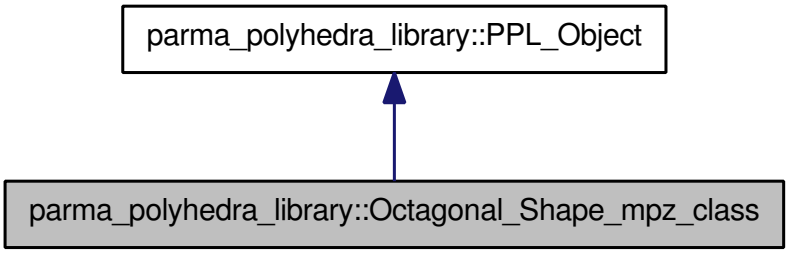
11.61 parma_polyhedra_library::Octagonal_Shape_mpz_class Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<mpz_class>

Inheritance diagram for parma_polyhedra_library::Octagonal_Shape_mpz_class:



Collaboration diagram for parma_polyhedra_library::Octagonal_Shape_mpz_class:



Public Member Functions

- Octagonal_Shape_mpz_class (long num_dimensions, Degenerate_Element kind)
- Octagonal_Shape_mpz_class (Int8_Box y)
- Octagonal_Shape_mpz_class (Int16_Box y)
- Octagonal_Shape_mpz_class (Int32_Box y)

- Octagonal_Shape_mpz_class (Int64_Box y)
- Octagonal_Shape_mpz_class (Uint8_Box y)
- Octagonal_Shape_mpz_class (Uint16_Box y)
- Octagonal_Shape_mpz_class (Uint32_Box y)
- Octagonal_Shape_mpz_class (Uint64_Box y)
- Octagonal_Shape_mpz_class (Z_Box y)
- Octagonal_Shape_mpz_class (Rational_Box y)
- Octagonal_Shape_mpz_class (BD_Shape_int8_t y)
- Octagonal_Shape_mpz_class (BD_Shape_int16_t y)
- Octagonal_Shape_mpz_class (BD_Shape_int32_t y)
- Octagonal_Shape_mpz_class (BD_Shape_int64_t y)
- Octagonal_Shape_mpz_class (BD_Shape_mpz_class y)
- Octagonal_Shape_mpz_class (BD_Shape_mpq_class y)
- Octagonal_Shape_mpz_class (Octagonal_Shape_int8_t y)
- Octagonal_Shape_mpz_class (Octagonal_Shape_int16_t y)
- Octagonal_Shape_mpz_class (Octagonal_Shape_int32_t y)
- Octagonal_Shape_mpz_class (Octagonal_Shape_int64_t y)
- Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class y)
- Octagonal_Shape_mpz_class (Octagonal_Shape_mpq_class y)
- Octagonal_Shape_mpz_class (C_Polyhedron y)
- Octagonal_Shape_mpz_class (NNC_Polyhedron y)
- Octagonal_Shape_mpz_class (Grid y)
- Octagonal_Shape_mpz_class (Float_Box y)
- Octagonal_Shape_mpz_class (BD_Shape_float y)
- Octagonal_Shape_mpz_class (Octagonal_Shape_float y)
- Octagonal_Shape_mpz_class (Double_Box y)
- Octagonal_Shape_mpz_class (BD_Shape_double y)
- Octagonal_Shape_mpz_class (Octagonal_Shape_double y)
- Octagonal_Shape_mpz_class (Long_Double_Box y)
- Octagonal_Shape_mpz_class (BD_Shape_long_double y)
- Octagonal_Shape_mpz_class (Octagonal_Shape_long_double y)
- Octagonal_Shape_mpz_class (Int8_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Int16_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Int32_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Int64_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Uint8_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Uint16_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Uint32_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Uint64_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Z_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Rational_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (BD_Shape_int8_t y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (BD_Shape_int16_t y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (BD_Shape_int32_t y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (BD_Shape_int64_t y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (BD_Shape_mpz_class y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (BD_Shape_mpq_class y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Octagonal_Shape_int32_t y, Complexity_Class complexity)

- Octagonal_Shape_mpz_class (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (C_Polyhedron y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (NNC_Polyhedron y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Grid y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Float_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (BD_Shape_float y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Octagonal_Shape_float y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Double_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (BD_Shape_double y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Octagonal_Shape_double y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Long_Double_Box y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (BD_Shape_long_double y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Octagonal_Shape_mpz_class (Constraint_System cs)
- Octagonal_Shape_mpz_class (Congruence_System cs)
- Octagonal_Shape_mpz_class (Generator_System cs)
- native void swap (Octagonal_Shape_mpz_class y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Octagonal_Shape_mpz_class y)
- native boolean strictly_contains (Octagonal_Shape_mpz_class y)
- native boolean is_disjoint_from (Octagonal_Shape_mpz_class y)

- native boolean equals (Octagonal_Shape_mpz_class p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Octagonal_Shape_mpz_class p)
- native void upper_bound_assign (Octagonal_Shape_mpz_class p)
- native void difference_assign (Octagonal_Shape_mpz_class p)
- native void concatenate_assign (Octagonal_Shape_mpz_class p)
- native void time_elapse_assign (Octagonal_Shape_mpz_class p)
- native boolean upper_bound_assign_if_exact (Octagonal_Shape_mpz_class y)
- native boolean simplify_using_context_assign (Octagonal_Shape_mpz_class p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void BHMZ05_widening_assign (Octagonal_Shape_mpz_class y, By_Reference< Integer > tp)
- native void widening_assign (Octagonal_Shape_mpz_class y, By_Reference< Integer > tp)

- native void limited_BHMZ05_extrapolation_assign (Octagonal_Shape_mpz_class y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Octagonal_Shape_mpz_class y, Constraint_System cs, By_Reference< Integer > tp)
- native void CC76_extrapolation_assign (Octagonal_Shape_mpz_class arg, By_Reference< Integer > tp)
- native void CC76_narrowing_assign (Octagonal_Shape_mpz_class arg)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native int hashCode ()
- native String toString ()

Static Public Member Functions

- static native Pair< Octagonal_Shape_mpz_class, Pointset_Powerset_NNC_Polyhedron > linear_partition (Octagonal_Shape_mpz_class p, Octagonal_Shape_mpz_class q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Octagonal_Shape_mpz_class ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)

- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.61.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<mpz_class>

Definition at line 33 of file Octagonal_Shape_mpz_class.java.

11.61.2 Constructor & Destructor Documentation

11.61.2.1 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.2 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class () [inline, private]

Definition at line 45 of file Octagonal_Shape_mpz_class.java.

11.61.2.3 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Int8_Box *y*) [inline]

Definition at line 52 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.4 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Int16_Box *y*) [inline]

Definition at line 56 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.5 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Int32_Box *y*) [inline]

Definition at line 60 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.6 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Int64_Box *y*) [inline]

Definition at line 64 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.7 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Uint8_Box *y*) [inline]

Definition at line 68 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.8 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Uint16_Box *y*) [inline]

Definition at line 72 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.9 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Uint32_Box *y*) [inline]

Definition at line 76 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.10 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Uint64_Box *y*) [inline]

Definition at line 80 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.11 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Z_Box *y*) [inline]

Definition at line 84 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.12 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Rational_Box *y*) [inline]

Definition at line 88 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.13 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.14 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.15 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.16 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.17 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.18 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.19 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.20 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.21 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.22 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.23 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.24 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.25 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (C_Polyhedron *y*) [inline]

Definition at line 140 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.26 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.27 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Grid *y*) [inline]

Definition at line 148 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.28 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Float_Box *y*) [inline]

Definition at line 152 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.29 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (BD_Shape_float *y*) [inline]

Definition at line 156 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.30 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.31 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Double_Box *y*) [inline]

Definition at line 164 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.32 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (BD_Shape_double *y*) [inline]

Definition at line 168 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.33 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.34 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Long_Double_Box *y*) [inline]

Definition at line 176 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.35 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.36 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.37 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.38 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.39 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.40 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.41 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.42 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.43 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.44 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.45 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.46 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.47 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.48 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.49 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.50 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.51 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.52 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.53 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.54 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.55 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.56 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.57 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.58 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.59 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.60 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.61 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.62 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.63 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.64 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.65 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.66 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.67 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.68 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.69 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.70 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.71 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Constraint_System *cs*) [inline]

Definition at line 334 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.72 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Congruence_System *cs*) [inline]

Definition at line 338 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.2.73 parma_polyhedra_library::Octagonal_Shape_mpz_class::Octagonal_Shape_mpz_class (Generator_System *cs*) [inline]

Definition at line 342 of file Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.61.3 Member Function Documentation

11.61.3.1 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::add_congruence (Congruence *c*)

11.61.3.2 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::add_congruences (Congruence_System *c*)

11.61.3.3 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::add_constraint (Constraint *c*)

11.61.3.4 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::add_constraints (Constraint_System *c*)

11.61.3.5 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::add_space_dimensions_and_embed (long *m*)

11.61.3.6 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::add_space_dimensions_and_project (long *m*)

11.61.3.7 native long parma_polyhedra_library::Octagonal_Shape_mpz_class::affine_dimension ()

11.61.3.8 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.61.3.9 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.61.3.10 native String parma_polyhedra_library::Octagonal_Shape_mpz_class::ascii_dump ()

11.61.3.11 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::BHMZ05_widening_assign (Octagonal_Shape_mpz_class *y*, By_Reference< Integer > *tp*)

11.61.3.12 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.61.3.13 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.61.3.14 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::bounds_from_above (Linear_Expression *expr*)

11.61.3.15 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::bounds_from_below (Linear_Expression *expr*)

11.61.3.16 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.61.3.17 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_long_double *y*) [private]

11.61.3.18 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.61.3.19 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (BD_Shape_long_double *y*) [private]

11.61.3.20 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.61.3.21 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Long_Double_Box *y*) [private]

11.61.3.22 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.61.3.23 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.61.3.24 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.61.3.25 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (BD_Shape_double *y*) [private]

11.61.3.26 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.61.3.27 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Double_Box *y*) [private]

11.61.3.28 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.61.3.29 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.61.3.30 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.61.3.31 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (BD_Shape_float *y*) [private]

11.61.3.32 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.61.3.33 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Float_Box *y*) [private]

11.61.3.34 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.61.3.35 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Grid *y*) [private]

11.61.3.36 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.61.3.37 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (NNC_Polyhedron *y*) [private]

11.61.3.38 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.61.3.39 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (C_Polyhedron *y*) [private]

11.61.3.40 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.61.3.41 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.61.3.42 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.61.3.43 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.61.3.44 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.61.3.45 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.61.3.46 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.61.3.47 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.61.3.48 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.61.3.49 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.61.3.50 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.61.3.51 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.61.3.52 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.61.3.53 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.61.3.54 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.61.3.55 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.61.3.56 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.61.3.57 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.61.3.58 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.61.3.59 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.61.3.60 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.61.3.61 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.61.3.62 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.61.3.63 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.61.3.64 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.61.3.65 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Rational_Box *y*) [private]

11.61.3.66 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.61.3.67 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Z_Box *y*) [private]

11.61.3.68 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.61.3.69 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Uint64_Box *y*) [private]

11.61.3.70 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.61.3.71 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Uint32_Box *y*) [private]

11.61.3.72 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.61.3.73 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Uint16_Box *y*) [private]

11.61.3.74 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.61.3.75 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Uint8_Box *y*) [private]

11.61.3.76 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.61.3.77 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Int64_Box *y*) [private]

11.61.3.78 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.61.3.79 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Int32_Box *y*) [private]

11.61.3.80 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.61.3.81 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Int16_Box *y*) [private]

11.61.3.82 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.61.3.83 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Int8_Box *y*) [private]

11.61.3.84 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.61.3.85 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Generator_System *cs*) [private]

11.61.3.86 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Congruence_System *cs*) [private]

11.61.3.87 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Octagonal_Shape_mpz_class().

11.61.3.88 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::CC76_-extrapolation_assign (Octagonal_Shape_mpz_class *arg*, By_Reference< Integer > *tp*)

11.61.3.89 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::CC76_narrowing_assign (Octagonal_Shape_mpz_class *arg*)

11.61.3.90 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::concatenate_assign (Octagonal_Shape_mpz_class *p*)

11.61.3.91 native Congruence_System parma_polyhedra_library::Octagonal_Shape_mpz_class::congruences ()

11.61.3.92 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::constrains (Variable *var*)

11.61.3.93 native Constraint_System parma_polyhedra_library::Octagonal_Shape_mpz_class::constraints ()

11.61.3.94 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::contains (Octagonal_Shape_mpz_class *y*)

11.61.3.95 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::contains_integer_point ()

11.61.3.96 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::difference_assign (Octagonal_Shape_mpz_class *p*)

11.61.3.97 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::drop_some_non_integer_points (Integer *complexity_threshold*)

11.61.3.98 native void parma_polyhedra_library::Octagonal_Shape_mpz_-class::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.61.3.99 boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::equals (Object *y*) [inline]

Definition at line 465 of file Octagonal_Shape_mpz_class.java.

References equals().

11.61.3.100 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::equals (Octagonal_Shape_mpz_class *p*)

Referenced by equals().

11.61.3.101 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::expand_space_-dimension (Variable *var*, long *m*)

11.61.3.102 native long parma_polyhedra_library::Octagonal_Shape_mpz_class::external_-memory_in_bytes ()

11.61.3.103 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::finalize () [protected]

11.61.3.104 native void parma_polyhedra_library::Octagonal_Shape_mpz_-class::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.61.3.105 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::free ()

11.61.3.106 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.61.3.107 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.61.3.108 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.61.3.109 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.61.3.110 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.61.3.111 native int parma_polyhedra_library::Octagonal_Shape_mpz_class::hashCode ()

11.61.3.112 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::intersection_assign (Octagonal_Shape_mpz_class *p*)

11.61.3.113 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::is_bounded ()

11.61.3.114 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::is_discrete ()

11.61.3.115 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::is_disjoint_-from (Octagonal_Shape_mpz_class *y*)

11.61.3.116 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::is_empty ()

11.61.3.117 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::is_-topologically_closed ()

11.61.3.118 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::is_universe ()

11.61.3.119 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::limited_-BHMZ05_extrapolation_assign (Octagonal_Shape_mpz_class *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.61.3.120 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::limited_-CC76_extrapolation_assign (Octagonal_Shape_mpz_class *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.61.3.121 static native Pair<Octagonal_Shape_mpz_class, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Octagonal_Shape_mpz_class::linear_partition (Octagonal_Shape_mpz_class *p*, Octagonal_Shape_mpz_class *q*) `[static]`

11.61.3.122 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::map_space_-dimensions (Partial_Function *pfunc*)

11.61.3.123 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.61.3.124 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.61.3.125 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.61.3.126 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.61.3.127 native Congruence_System parma_polyhedra_library::Octagonal_Shape_mpz_class::minimized_congruences ()

11.61.3.128 native Constraint_System parma_polyhedra_library::Octagonal_Shape_mpz_class::minimized_constraints ()

11.61.3.129 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::OK ()

11.61.3.130 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::refine_with_congruence (Congruence *c*)

11.61.3.131 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::refine_with_congruences (Congruence_System *c*)

11.61.3.132 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::refine_with_constraint (Constraint *c*)

11.61.3.133 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::refine_with_constraints (Constraint_System *c*)

11.61.3.134 native Poly_Con_Relation parma_polyhedra_library::Octagonal_Shape_mpz_class::relation_with (Congruence *c*)

11.61.3.135 native Poly_Gen_Relation parma_polyhedra_library::Octagonal_Shape_mpz_class::relation_with (Generator *c*)

11.61.3.136 native Poly_Con_Relation parma_polyhedra_library::Octagonal_Shape_mpz_class::relation_with (Constraint *c*)

11.61.3.137 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::remove_higher_space_dimensions (long *new_dimension*)

11.61.3.138 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::remove_space_dimensions (Variables_Set *vars*)

11.61.3.139 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::simplify_using_context_assign (Octagonal_Shape_mpz_class *p*)

11.61.3.140 native long parma_polyhedra_library::Octagonal_Shape_mpz_class::space_dimension ()

11.61.3.141 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::strictly_contains (Octagonal_Shape_mpz_class *y*)

11.61.3.142 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::swap (Octagonal_Shape_mpz_class *y*)

11.61.3.143 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::time_elapse_assign (Octagonal_Shape_mpz_class *p*)

11.61.3.144 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::topological_closure_assign ()

11.61.3.145 native String parma_polyhedra_library::Octagonal_Shape_mpz_class::toString ()

11.61.3.146 native long parma_polyhedra_library::Octagonal_Shape_mpz_class::total_memory_in_bytes ()

11.61.3.147 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::unconstrain_space_dimension (Variable *var*)

11.61.3.148 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::unconstrain_space_dimensions (Variables_Set *vars*)

11.61.3.149 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::upper_bound_assign (Octagonal_Shape_mpz_class *p*)

11.61.3.150 native boolean parma_polyhedra_library::Octagonal_Shape_mpz_class::upper_bound_assign_if_exact (Octagonal_Shape_mpz_class *y*)

11.61.3.151 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::widening_assign (Octagonal_Shape_mpz_class *y*, By_Reference< Integer > *tp*)

11.61.3.152 native void parma_polyhedra_library::Octagonal_Shape_mpz_class::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

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

- Octagonal_Shape_mpz_class.java

11.62 parma_polyhedra_library::Overflow_Error_Exception Class Reference

Exceptions due to overflow errors.

Public Member Functions

- Overflow_Error_Exception (String s)
  Constructor.

11.62.1 Detailed Description

Exceptions due to overflow errors. These exceptions can be obtained when the library has been configured to use integer coefficients having bounded size.

Definition at line 31 of file Overflow_Error_Exception.java.

11.62.2 Constructor & Destructor Documentation

11.62.2.1 parma_polyhedra_library::Overflow_Error_Exception::Overflow_Error_Exception (String *s*) `[inline]`

Constructor.

Definition at line 33 of file Overflow_Error_Exception.java.

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

- Overflow_Error_Exception.java

11.63 parma_polyhedra_library::Pair< K, V > Class Reference

A pair of values of type K and V.

Public Member Functions

- K getFirst ()

  Returns the object of type K.

- V getSecond ()

  Returns the object of type V.

Static Package Functions

- [static initializer]

Static Private Member Functions

- static native void initIDs ()

Private Attributes

- K first

  Stores an object of type K.

- V second

  Stores an object of type V.

11.63.1 Detailed Description

A pair of values of type K and V. An object of this class holds an ordered pair of values of type K and V.

Definition at line 30 of file Pair.java.

11.63.2 Member Function Documentation

11.63.2.1 parma_polyhedra_library::Pair< K, V >::[static initializer] () `[inline, static, package]`

11.63.2.2 K parma_polyhedra_library::Pair< K, V >::getFirst () `[inline]`

Returns the object of type K.

Definition at line 39 of file Pair.java.

11.63.2.3 V parma_polyhedra_library::Pair< K, V >::getSecond () [inline]

Returns the object of type V.

Definition at line 44 of file Pair.java.

11.63.2.4 static native void parma_polyhedra_library::Pair< K, V >::initIDs () [static, private]

11.63.3 Member Data Documentation

11.63.3.1 K parma_polyhedra_library::Pair< K, V >::first [private]

Stores an object of type K.

Definition at line 33 of file Pair.java.

11.63.3.2 V parma_polyhedra_library::Pair< K, V >::second [private]

Stores an object of type V.

Definition at line 36 of file Pair.java.

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

- Pair.java

11.64 parma_polyhedra_library::Parma_Polyhedra_Library Class Reference

A class collecting library-level functions.

Static Public Member Functions

Library initialization and finalization

- static native void initialize_library ()
  Initializes the Parma Polyhedra Library.
- static native void finalize_library ()
  Finalizes the Parma Polyhedra Library.

Version Checking

- static native int version_major ()
  Returns the major number of the PPL version.

- static native int version_minor ()
  Returns the minor number of the PPL version.
- static native int version_revision ()
  Returns the revision number of the PPL version.
- static native int version_beta ()
  Returns the beta number of the PPL version.
- static native String version ()
  Returns a string containing the PPL version.
- static native String banner ()
  Returns a string containing the PPL banner.

Floating-point rounding and precision settings.

- static native void set_rounding_for_PPL ()
  Sets the FPU rounding mode so that the PPL abstractions based on floating point numbers work correctly.
- static native void restore_pre_PPL_rounding ()
  Sets the FPU rounding mode as it was before initialization of the PPL.
- static native int irrational_precision ()
  Returns the precision parameter for irrational calculations.
- static native void set_irrational_precision (int p)
  Sets the precision parameter used for irrational calculations.

Timeout handling

- static native void set_timeout (int hsecs)
  Sets the timeout for computations whose completion could require an exponential amount of time.
- static native void reset_timeout ()
  Resets the timeout time so that the computation is not interrupted.
- static native void set_deterministic_timeout (int weight)
  Sets a threshold for computations whose completion could require an exponential amount of time.
- static native void reset_deterministic_timeout ()
  Resets the deterministic timeout so that the computation is not interrupted.

11.64.1 Detailed Description

A class collecting library-level functions.

Definition at line 144 of file Parma_Polyhedra_Library.java.

11.64.2 Member Function Documentation

11.64.2.1 static native String parma_polyhedra_library::Parma_Polyhedra_Library::banner () [static]

Returns a 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.

11.64.2.2 static native void parma_polyhedra_library::Parma_Polyhedra_Library::finalize_library () [static]

Finalizes the Parma Polyhedra Library.

This method must be called when work with the library is done. After finalization, no other library method can be called (except those in class Parma_Polyhedra_Library), unless the library is re-initialized by calling `initialize_library()`.

11.64.2.3 static native void parma_polyhedra_library::Parma_Polyhedra_Library::initialize_library () [static]

Initializes the Parma Polyhedra Library.

This method must be called after loading the library and before calling any other method from any other PPL package class.

11.64.2.4 static native int parma_polyhedra_library::Parma_Polyhedra_Library::irrational_precision () [static]

Returns the precision parameter for irrational calculations.

11.64.2.5 static native void parma_polyhedra_library::Parma_Polyhedra_Library::reset_deterministic_timeout () [static]

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

11.64.2.6 static native void parma_polyhedra_library::Parma_Polyhedra_Library::reset_timeout () [static]

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

11.64.2.7 static native void parma_polyhedra_library::Parma_Polyhedra_Library::restore_pre_PPL_rounding () [static]

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.

11.64.2.8 static native void parma_polyhedra_library::Parma_Polyhedra_Library::set_deterministic_timeout (int *weight*) [static]

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, by throwing a `Timeout_Exception` object. Otherwise, if the computation completes without being interrupted, then the deterministic timeout should be reset by calling `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.

11.64.2.9 static native void parma_polyhedra_library::Parma_Polyhedra_Library::set_irrational_precision (int *p*) [static]

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`.

11.64.2.10 static native void parma_polyhedra_library::Parma_Polyhedra_Library::set_rounding_for_PPL () [static]

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.

11.64.2.11 static native void parma_polyhedra_library::Parma_Polyhedra_Library::set_timeout (int *hsecs*) [static]

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

Parameters

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

Computations taking exponential time will be interrupted some time after `hsecs` hundreths of seconds have elapsed since the call to the timeout setting function, by throwing a `Timeout_Exception` object. Otherwise, if the computation completes without being interrupted, then the timeout should be reset by calling `reset_timeout()`.

11.64.2.12 static native String parma_polyhedra_library::Parma_Polyhedra_Library::version () [static]

Returns a string containing the PPL version.

11.64.2.13 static native int parma_polyhedra_library::Parma_Polyhedra_Library::version_beta () [static]

Returns the beta number of the PPL version.

11.64.2.14 static native int parma_polyhedra_library::Parma_Polyhedra_Library::version_major () [static]

Returns the major number of the PPL version.

11.64.2.15 static native int parma_polyhedra_library::Parma_Polyhedra_Library::version_minor () [static]

Returns the minor number of the PPL version.

11.64.2.16 static native int parma_polyhedra_library::Parma_Polyhedra_Library::version_revision () [static]

Returns the revision number of the PPL version.

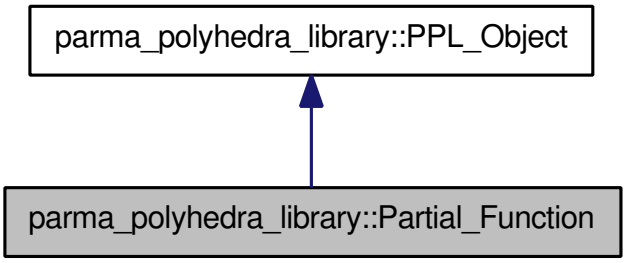
The documentation for this class was generated from the following file:

- Parma_Polyhedra_Library.java

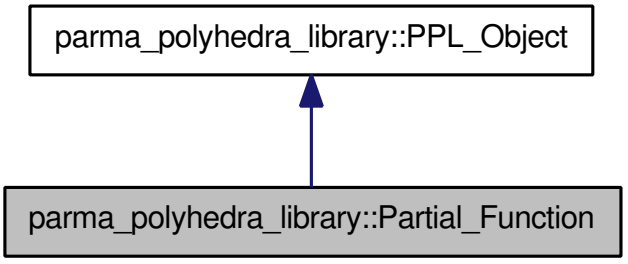
11.65 parma_polyhedra_library::Partial_Function Class Reference

A partial function on space dimension indices.

Inheritance diagram for parma_polyhedra_library::Partial_Function:



Collaboration diagram for parma_polyhedra_library::Partial_Function:



Public Member Functions

- Partial_Function ()

  Builds the empty map.

- native void insert (long i, long j)

  Inserts mapping from `i` to `j`.

- native boolean has_empty_codomain ()

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

- native long max_in_codomain ()

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

- native long maps (long i)

  If the partial function is defined on index `i`, returns its value.

- native void free ()

  Releases all resources managed by `this`, also resetting it to a null reference.

Protected Member Functions

- native void finalize ()

  Releases all resources managed by `this`.

Private Member Functions

- native void build_cpp_object ()

  Builds the underlying C++ object.

11.65.1 Detailed Description

A partial function on space dimension indices. This class is used in order to specify how space dimensions should be mapped by methods named `map_space_dimensions`.

Definition at line 31 of file Partial_Function.java.

11.65.2 Constructor & Destructor Documentation

11.65.2.1 parma_polyhedra_library::Partial_Function::Partial_Function () [inline]

Builds the empty map.

Definition at line 36 of file Partial_Function.java.

References build_cpp_object().

11.65.3 Member Function Documentation

11.65.3.1 native void parma_polyhedra_library::Partial_Function::build_cpp_object () [private]

Builds the underlying C++ object.

Referenced by Partial_Function().

11.65.3.2 native void parma_polyhedra_library::Partial_Function::finalize () [protected]

Releases all resources managed by `this`.

11.65.3.3 native void parma_polyhedra_library::Partial_Function::free ()

Releases all resources managed by `this`, also resetting it to a null reference.

11.65.3.4 native boolean parma_polyhedra_library::Partial_Function::has_empty_codomain ()

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

This method will always be called before the other methods of the interface. Moreover, if `true` is returned, then none of the other interface methods will be called.

11.65.3.5 native void parma_polyhedra_library::Partial_Function::insert (long *i*, long *j*)

Inserts mapping from `i` to `j`.

11.65.3.6 native long parma_polyhedra_library::Partial_Function::maps (long *i*)

If the partial function is defined on index `i`, returns its value.

The function returns a negative value if the partial function is not defined on domain value `i`.

11.65.3.7 native long parma_polyhedra_library::Partial_Function::max_in_codomain ()

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

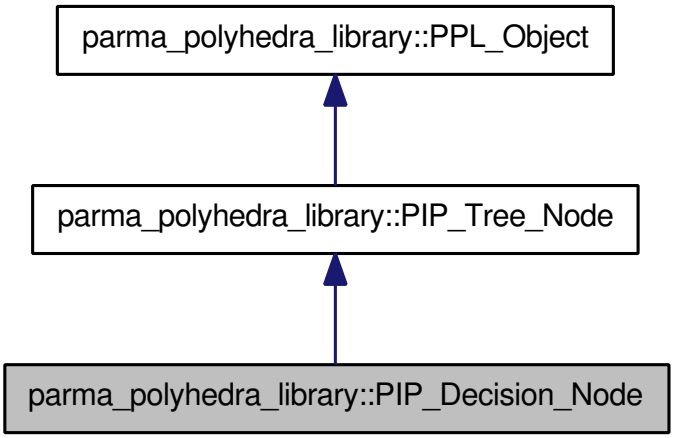
The documentation for this class was generated from the following file:

- Partial_Function.java

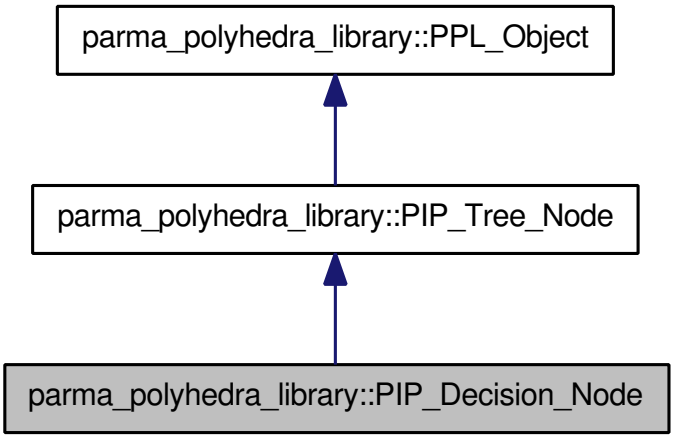
11.66 parma_polyhedra_library::PIP_Decision_Node Class Reference

An internal node of the PIP solution tree.

Inheritance diagram for parma_polyhedra_library::PIP_Decision_Node:



Collaboration diagram for parma_polyhedra_library::PIP_Decision_Node:



Public Member Functions

- native PIP_Tree_Node child_node (boolean branch)

  Returns the true branch (if `branch` *is true) or the false branch (if* `branch` *is false) of* `this`*.*

11.66.1 Detailed Description

An internal node of the PIP solution tree.

Definition at line 31 of file PIP_Decision_Node.java.

11.66.2 Member Function Documentation

11.66.2.1 native PIP_Tree_Node parma_polyhedra_library::PIP_Decision_Node::child_node (boolean *branch*)

Returns the true branch (if `branch` is true) or the false branch (if `branch` is false) of `this`.

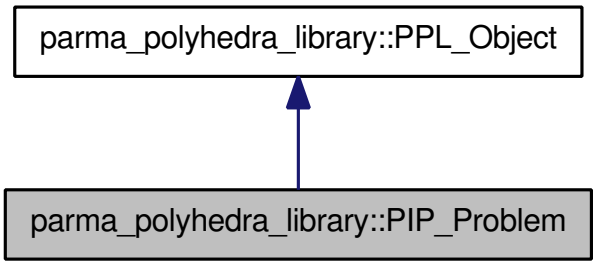
The documentation for this class was generated from the following file:

- PIP_Decision_Node.java

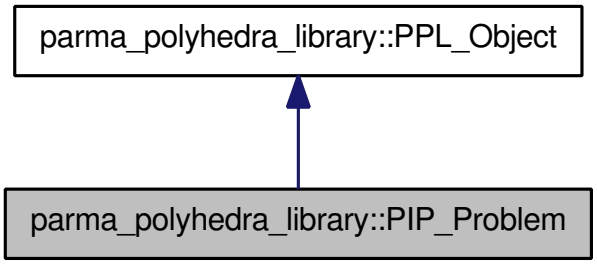
11.67 parma_polyhedra_library::PIP_Problem Class Reference

A Parametric Integer Programming problem.

Inheritance diagram for parma_polyhedra_library::PIP_Problem:



Collaboration diagram for parma_polyhedra_library::PIP_Problem:



Public Member Functions

- PIP_Problem (long dim)

  Builds a trivial PIP problem.

- PIP_Problem (long dim, Constraint_System cs, Variables_Set params)

  Builds a PIP problem from a sequence of constraints.

- PIP_Problem (PIP_Problem y)

  Builds a copy of y.

- native void free ()

  Releases all resources managed by `this`, also resetting it to a null reference.

Functions that Do Not Modify the PIP_Problem

- native long max_space_dimension ()

  Returns the maximum space dimension an PIP_Problem can handle.

- native long space_dimension ()

  Returns the space dimension of the PIP problem.

- native long number_of_parameter_space_dimensions ()

  Returns the number of parameter space dimensions of the PIP problem.

- native Variables_Set parameter_space_dimensions ()

  Returns all the parameter space dimensions of problem `pip`.

- native long get_big_parameter_dimension ()

  Returns the big parameter dimension of PIP problem `pip`.

- native long number_of_constraints ()

  Returns the number of constraints defining the feasible region of `pip`.

- native Constraint constraint_at_index (long dim)

  Returns the `i-th` constraint defining the feasible region of the PIP problem `pip`.

- native Constraint_System constraints ()

  Returns the constraints .

- native String ascii_dump ()

  Returns an ascii formatted internal representation of `this`.

- native String toString ()

  Returns a string representation of `this`.

- native long total_memory_in_bytes ()

  Returns the size in bytes of the memory occupied by the underlying C++ object.

- native long external_memory_in_bytes ()

  Returns the size in bytes of the memory managed by the underlying C++ object.

- native boolean OK ()

  Returns true if the pip problem is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if broken. Useful for debugging purposes.

Functions that May Modify the PIP_Problem

- native void clear ()

  Resets `this` to be equal to the trivial PIP problem.

- native void add_space_dimensions_and_embed (long pip_vars, long pip_params)

Adds `pip_vars + pip_params` new space dimensions and embeds the PIP problem in the new vector space.

- native void add_to_parameter_space_dimensions (Variables_Set vars)
  Sets the space dimensions in `vars` to be parameter dimensions of the PIP problem.
- native void set_big_parameter_dimension (long d)
  Sets the big parameter dimension of PIP problem to `d`.
- native void add_constraint (Constraint c)
  Adds a copy of constraint `c` to the PIP problem.
- native void add_constraints (Constraint_System cs)
  Adds a copy of the constraints in `cs` to the PIP problem.

Computing the Solution of the PIP_Problem

- native boolean is_satisfiable ()
  Checks satisfiability of `*this`.
- native PIP_Problem_Status solve ()
  Optimizes the PIP problem.
- native PIP_Tree_Node solution ()
  Returns a solution for the PIP problem, if it exists.
- native PIP_Tree_Node optimizing_solution ()
  Returns an optimizing solution for the PIP problem, if it exists.

Querying/Setting Control Parameters

- native PIP_Problem_Control_Parameter_Value get_pip_problem_control_parameter (PIP_Problem_Control_Parameter_Name name)
  Returns the value of control parameter `name`.
- native void set_pip_problem_control_parameter (PIP_Problem_Control_Parameter_Value value)
  Sets control parameter `value`.

Protected Member Functions

- native void finalize ()
  Releases all resources managed by `this`.

Private Member Functions

- native void build_cpp_object (long dim)
  Builds the underlying C++ object.

- native void build_cpp_object (long dim, Constraint_System cs, Variables_Set vars)

  Builds the underlying C++ object.

- native void build_cpp_object (PIP_Problem y)

  Builds the underlying C++ object.

11.67.1 Detailed Description

A Parametric Integer Programming problem. An object of this class encodes a parametric integer (linear) programming problem. The PIP problem is specified by providing:

- the dimension of the vector space;
- the subset of those dimensions of the vector space that are interpreted as integer parameters (the other space dimensions are interpreted as non-parameter integer variables);
- a finite set of linear equality and (strict or non-strict) inequality constraints involving variables and/or parameters; these constraints are used to define:
  - the *feasible region*, if they involve one or more problem variable (and maybe some parameters);
  - the *initial context*, if they only involve the parameters;
- optionally, the so-called *big parameter*, i.e., a problem parameter to be considered arbitrarily big.

Note that all problem variables and problem parameters are assumed to take non-negative integer values, so that there is no need to specify non-negativity constraints.

The class provides support for the (incremental) solution of the PIP problem based on variations of the revised simplex method and on Gomory cut generation techniques.

The solution for a PIP problem is the lexicographic minimum of the integer points of the feasible region, expressed in terms of the parameters. As the problem to be solved only involves non-negative variables and parameters, the problem will always be either unfeasible or optimizable.

As the feasibility and the solution value of a PIP problem depend on the values of the parameters, the solution is a binary decision tree, dividing the context parameter set into subsets. The tree nodes are of two kinds:

- *Decision* nodes. These are internal tree nodes encoding one or more linear tests on the parameters; if all the tests are satisfied, then the solution is the node's *true* child; otherwise, the solution is the node's *false* child;
- *Solution* nodes. These are leaf nodes in the tree, encoding the solution of the problem in the current context subset, where each variable is defined in terms of a linear expression of the parameters. Solution nodes also optionally embed a set of parameter constraints: if all these constraints are satisfied, the solution is described by the node, otherwise the problem has no solution.

It may happen that a decision node has no *false* child. This means that there is no solution if at least one of the corresponding constraints is not satisfied. Decision nodes having two or more linear tests on the parameters cannot have a *false* child. Decision nodes always have a *true* child.

Both kinds of tree nodes may also contain the definition of extra parameters which are artificially introduced by the solver to enforce an integral solution. Such artificial parameters are defined by the integer division of a linear expression on the parameters by an integer coefficient.

By exploiting the incremental nature of the solver, it is possible to reuse part of the computational work already done when solving variants of a given PIP_Problem: currently, incremental resolution supports the addition of space dimensions, the addition of parameters and the addition of constraints.

Definition at line 97 of file PIP_Problem.java.

11.67.2 Constructor & Destructor Documentation

11.67.2.1 parma_polyhedra_library::PIP_Problem::PIP_Problem (long *dim*) [inline]

Builds a trivial PIP problem.

A trivial PIP problem requires to compute the lexicographic minimum on a vector space under no constraints and with no parameters: due to the implicit non-negativity constraints, the origin of the vector space is an optimal solution.

Parameters

dim The dimension of the vector space enclosing `*this` (optional argument with default value 0).

Exceptions

std::length_error Thrown if `dim` exceeds `max_space_dimension()`.

Definition at line 113 of file PIP_Problem.java.

References build_cpp_object().

11.67.2.2 parma_polyhedra_library::PIP_Problem::PIP_Problem (long *dim*, Constraint_System *cs*, Variables_Set *params*) [inline]

Builds a PIP problem from a sequence of constraints.

Builds a PIP problem having space dimension `dim` from the constraint system cs; the dimensions `vars` are interpreted as parameters.

Definition at line 123 of file PIP_Problem.java.

References build_cpp_object().

11.67.2.3 parma_polyhedra_library::PIP_Problem::PIP_Problem (PIP_Problem *y*) [inline]

Builds a copy of `y`.

Definition at line 128 of file PIP_Problem.java.

References build_cpp_object().

11.67.3 Member Function Documentation

11.67.3.1 native void parma_polyhedra_library::PIP_Problem::add_constraint (Constraint *c*)

Adds a copy of constraint `c` to the PIP problem.

Exceptions

std::invalid_argument Thrown if the constraint `c` is a strict inequality or if its space dimension is strictly greater than the space dimension of `this`.

11.67.3.2 native void parma_polyhedra_library::PIP_Problem::add_constraints (Constraint_System *cs*)

Adds a copy of the constraints in `cs` to the PIP problem.

Exceptions

std::invalid_argument Thrown if the constraint system `cs` contains any strict inequality or if its space dimension is strictly greater than the space dimension of `*this`.

11.67.3.3 native void parma_polyhedra_library::PIP_Problem::add_space_dimensions_and_embed (long *pip_vars*, long *pip_params*)

Adds `pip_vars + pip_params` new space dimensions and embeds the PIP problem in the new vector space.

Parameters

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.

11.67.3.4 native void parma_polyhedra_library::PIP_Problem::add_to_parameter_space_dimensions (Variables_Set *vars*)

Sets the space dimensions in `vars` to be parameter dimensions of the PIP problem.

11.67.3.5 native String parma_polyhedra_library::PIP_Problem::ascii_dump ()

Returns an ascii formatted internal representation of `this`.

11.67.3.6 native void parma_polyhedra_library::PIP_Problem::build_cpp_object (PIP_Problem *y*) [private]

Builds the underlying C++ object.

11.67.3.7 native void parma_polyhedra_library::PIP_Problem::build_cpp_object (long *dim*, Constraint_System *cs*, Variables_Set *vars*) [private]

Builds the underlying C++ object.

11.67.3.8 native void parma_polyhedra_library::PIP_Problem::build_cpp_object (long *dim*) [private]

Builds the underlying C++ object.

Referenced by PIP_Problem().

11.67.3.9 native void parma_polyhedra_library::PIP_Problem::clear ()

Resets `this` to be equal to the trivial PIP problem.

The space dimension is reset to 0.

11.67.3.10 native Constraint parma_polyhedra_library::PIP_Problem::constraint_at_index (long *dim*)

Returns the `i-th` constraint defining the feasible region of the PIP problem `pip`.

11.67.3.11 native Constraint_System parma_polyhedra_library::PIP_Problem::constraints ()

Returns the constraints .

11.67.3.12 native long parma_polyhedra_library::PIP_Problem::external_memory_in_bytes ()

Returns the size in bytes of the memory managed by the underlying C++ object.

11.67.3.13 native void parma_polyhedra_library::PIP_Problem::finalize () [protected]

Releases all resources managed by `this`.

11.67.3.14 native void parma_polyhedra_library::PIP_Problem::free ()

Releases all resources managed by `this`, also resetting it to a null reference.

11.67.3.15 native long parma_polyhedra_library::PIP_Problem::get_big_parameter_dimension ()

Returns the big parameter dimension of PIP problem `pip`.

11.67.3.16 native PIP_Problem_Control_Parameter_Value parma_polyhedra_library::PIP_Problem::get_pip_problem_control_parameter (PIP_Problem_Control_Parameter_Name *name*)

Returns the value of control parameter `name`.

11.67.3.17 native boolean parma_polyhedra_library::PIP_Problem::is_satisfiable ()

Checks satisfiability of `*this`.

Returns

`true` if and only if the PIP problem is satisfiable.

11.67.3.18 native long parma_polyhedra_library::PIP_Problem::max_space_dimension ()

Returns the maximum space dimension an PIP_Problem can handle.

11.67.3.19 native long parma_polyhedra_library::PIP_Problem::number_of_constraints ()

Returns the number of constraints defining the feasible region of `pip`.

11.67.3.20 native long parma_polyhedra_library::PIP_Problem::number_of_parameter_space_dimensions ()

Returns the number of parameter space dimensions of the PIP problem.

11.67.3.21 native boolean parma_polyhedra_library::PIP_Problem::OK ()

Returns true if the pip problem is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if broken. Useful for debugging purposes.

11.67.3.22 native PIP_Tree_Node parma_polyhedra_library::PIP_Problem::optimizing_solution ()

Returns an optimizing solution for the PIP problem, if it exists.

11.67.3.23 native Variables_Set parma_polyhedra_library::PIP_Problem::parameter_space_dimensions ()

Returns all the parameter space dimensions of problem `pip`.

11.67.3.24 native void parma_polyhedra_library::PIP_Problem::set_big_parameter_dimension (long *d*)

Sets the big parameter dimension of PIP problem to `d`.

11.67.3.25 native void parma_polyhedra_library::PIP_Problem::set_pip_problem_control_parameter (PIP_Problem_Control_Parameter_Value *value*)

Sets control parameter `value`.

11.67.3.26 native PIP_Tree_Node parma_polyhedra_library::PIP_Problem::solution ()

Returns a solution for the PIP problem, if it exists.

11.67.3.27 native PIP_Problem_Status parma_polyhedra_library::PIP_Problem::solve ()

Optimizes the PIP problem.

Solves the PIP problem, returning an exit status.

Returns

`UNFEASIBLE_PIP_PROBLEM` if the PIP problem is not satisfiable; `OPTIMIZED_PIP_PROBLEM` if the PIP problem admits an optimal solution.

11.67.3.28 native long parma_polyhedra_library::PIP_Problem::space_dimension ()

Returns the space dimension of the PIP problem.

11.67.3.29 native String parma_polyhedra_library::PIP_Problem::toString ()

Returns a string representation of `this`.

11.67.3.30 native long parma_polyhedra_library::PIP_Problem::total_memory_in_bytes ()

Returns the size in bytes of the memory occupied by the underlying C++ object.

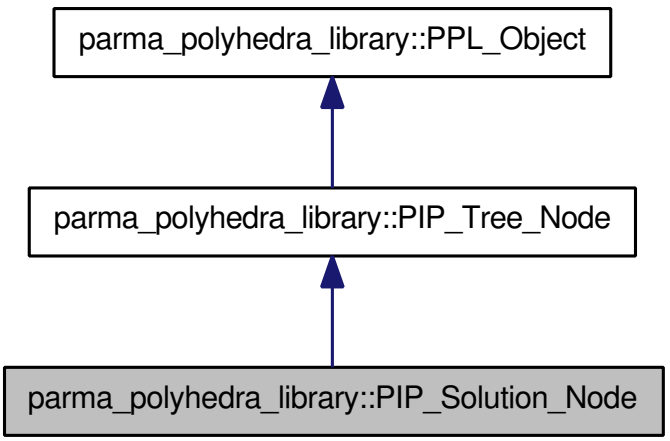
The documentation for this class was generated from the following file:

- PIP_Problem.java

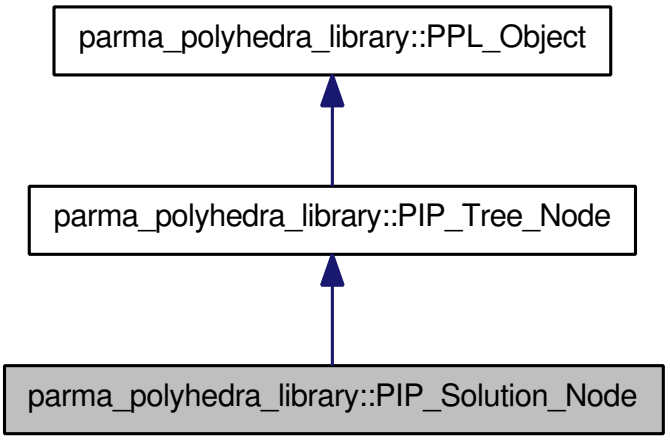
11.68 parma_polyhedra_library::PIP_Solution_Node Class Reference

A leaf node of the PIP solution tree.

Inheritance diagram for parma_polyhedra_library::PIP_Solution_Node:



Collaboration diagram for parma_polyhedra_library::PIP_Solution_Node:



Public Member Functions

- native Linear_Expression parametric_values (Variable var)

  Returns the parametric expression of the values of variable `var` *in solution node* `this`.

11.68.1 Detailed Description

A leaf node of the PIP solution tree.

Definition at line 31 of file PIP_Solution_Node.java.

11.68.2 Member Function Documentation

11.68.2.1 native Linear_Expression parma_polyhedra_library::PIP_Solution_Node::parametric_values (Variable *var*)

Returns the parametric expression of the values of variable `var` in solution node `this`.

The returned parametric expression will only refer to (problem or artificial) parameters.

Parameters

var The variable being queried.

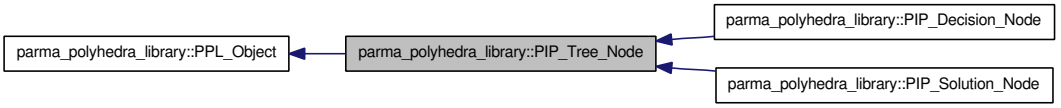
The documentation for this class was generated from the following file:

- PIP_Solution_Node.java

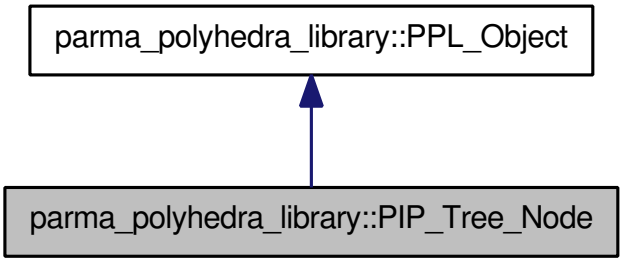
11.69 parma_polyhedra_library::PIP_Tree_Node Class Reference

A node of the PIP solution tree.

Inheritance diagram for parma_polyhedra_library::PIP_Tree_Node:



Collaboration diagram for parma_polyhedra_library::PIP_Tree_Node:



Public Member Functions

- native PIP_Solution_Node as_solution ()

  Returns the solution node if `this` *is a solution node, and 0 otherwise.*

- native PIP_Decision_Node as_decision ()

  Returns the decision node if `this` *is a decision node, and 0 otherwise.*

- native boolean OK ()

  Returns true if the pip tree is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if broken. Useful for debugging purposes.

- native long number_of_artificials ()

  Returns the number of artificial parameters in the PIP_Tree_Node.

- native Artificial_Parameter_Sequence artificials ()

  Returns the sequence of (Java) artificial parameters in the PIP_Tree_Node.

- native Constraint_System constraints ()

  Returns the system of parameter constraints controlling the PIP_Tree_Node.

- native String toString ()

  Returns a string representation of `this`.

11.69.1 Detailed Description

A node of the PIP solution tree. This is the base class for the nodes of the binary trees representing the solutions of PIP problems. From this one, two classes are derived:

- PIP_Decision_Node, for the internal nodes of the tree;
- PIP_Solution_Node, for the leaves of the tree.

Definition at line 37 of file PIP_Tree_Node.java.

11.69.2 Member Function Documentation

11.69.2.1 native Artificial_Parameter_Sequence parma_polyhedra_library::PIP_Tree_Node::artificials ()

Returns the sequence of (Java) artificial parameters in the PIP_Tree_Node.

11.69.2.2 native PIP_Decision_Node parma_polyhedra_library::PIP_Tree_Node::as_decision ()

Returns the decision node if `this` is a decision node, and 0 otherwise.

11.69.2.3 native PIP_Solution_Node parma_polyhedra_library::PIP_Tree_Node::as_solution ()

Returns the solution node if `this` is a solution node, and 0 otherwise.

11.69.2.4 native Constraint_System parma_polyhedra_library::PIP_Tree_Node::constraints ()

Returns the system of parameter constraints controlling the PIP_Tree_Node.

The indices in the constraints are the same as the original variables and parameters. Coefficients in indices corresponding to variables always are zero.

11.69.2.5 native long parma_polyhedra_library::PIP_Tree_Node::number_of_artificials ()

Returns the number of artificial parameters in the PIP_Tree_Node.

11.69.2.6 native boolean parma_polyhedra_library::PIP_Tree_Node::OK ()

Returns true if the pip tree is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if broken. Useful for debugging purposes.

11.69.2.7 native String parma_polyhedra_library::PIP_Tree_Node::toString ()

Returns a string representation of `this`.

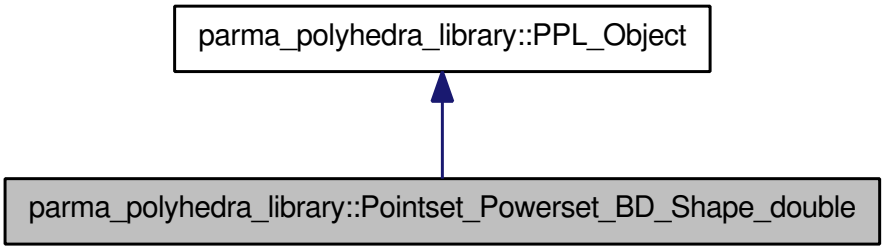
The documentation for this class was generated from the following file:

- PIP_Tree_Node.java

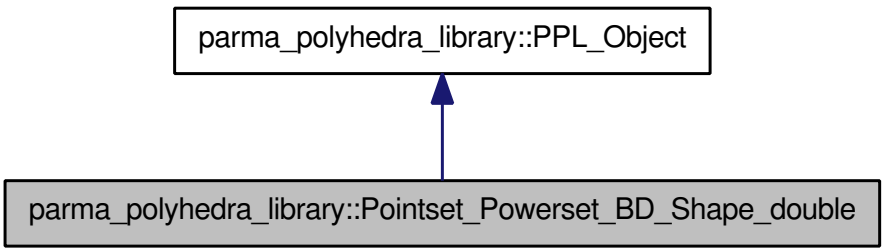
11.70 parma_polyhedra_library::Pointset_Powerset_BD_Shape_double Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<double> >

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_double:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_double:



Public Member Functions

- Pointset_Powerset_BD_Shape_double (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_BD_Shape_double (Pointset_Powerset_BD_Shape_double y)
- Pointset_Powerset_BD_Shape_double (BD_Shape_double y)
- Pointset_Powerset_BD_Shape_double (Pointset_Powerset_BD_Shape_double y, Complexity_Class complexity)
- Pointset_Powerset_BD_Shape_double (BD_Shape_double y, Complexity_Class complexity)
- Pointset_Powerset_BD_Shape_double (Constraint_System cs)
- Pointset_Powerset_BD_Shape_double (Congruence_System cs)
- native void swap (Pointset_Powerset_BD_Shape_double y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)

- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_BD_Shape_double y)
- native boolean strictly_contains (Pointset_Powerset_BD_Shape_double y)
- native boolean is_disjoint_from (Pointset_Powerset_BD_Shape_double y)
- native boolean geometrically_covers (Pointset_Powerset_BD_Shape_double y)
- native boolean geometrically_equals (Pointset_Powerset_BD_Shape_double y)
- native boolean equals (Pointset_Powerset_BD_Shape_double p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_BD_Shape_double p)
- native void upper_bound_assign (Pointset_Powerset_BD_Shape_double p)
- native void difference_assign (Pointset_Powerset_BD_Shape_double p)
- native void concatenate_assign (Pointset_Powerset_BD_Shape_double p)
- native void time_elapse_assign (Pointset_Powerset_BD_Shape_double p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_BD_Shape_double y)
- native boolean simplify_using_context_assign (Pointset_Powerset_BD_Shape_double p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)

- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_BD_Shape_double_Iterator begin_iterator ()
- native Pointset_Powerset_BD_Shape_double_Iterator end_iterator ()
- native void add_disjunct (BD_Shape_double j_disj)
- native void drop_disjunct (Pointset_Powerset_BD_Shape_double_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_BD_Shape_double_Iterator itr1, Pointset_Powerset_BD_Shape_double_Iterator itr2)
- native void BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_BD_Shape_double y)
- native void BHZ03_H79_H79_widening_assign (Pointset_Powerset_BD_Shape_double y)
- native void BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_BD_Shape_double y, Integer d)
- native void BGP99_H79_extrapolation_assign (Pointset_Powerset_BD_Shape_double y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_BD_Shape_double ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_double y)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)

11.70.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<double> >

Definition at line 33 of file Pointset_Powerset_BD_Shape_double.java.

11.70.2 Constructor & Destructor Documentation

11.70.2.1 parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::Pointset_Powerset_BD_Shape_double (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_BD_Shape_double.java.

References build_cpp_object().

11.70.2.2 parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::Pointset_Powerset_BD_Shape_double () [inline, private]

Definition at line 45 of file Pointset_Powerset_BD_Shape_double.java.

11.70.2.3 parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::Pointset_Powerset_BD_Shape_double (Pointset_Powerset_BD_Shape_double *y*) [inline]

Definition at line 52 of file Pointset_Powerset_BD_Shape_double.java.

References build_cpp_object().

11.70.2.4 parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::Pointset_Powerset_BD_Shape_double (BD_Shape_double *y*) [inline]

Definition at line 56 of file Pointset_Powerset_BD_Shape_double.java.

References build_cpp_object().

11.70.2.5 parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::Pointset_Powerset_BD_Shape_double (Pointset_Powerset_BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_BD_Shape_double.java.

References build_cpp_object().

11.70.2.6 parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::Pointset_Powerset_BD_Shape_double (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_BD_Shape_double.java.

References build_cpp_object().

11.70.2.7 parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::Pointset_Powerset_BD_Shape_double (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_BD_Shape_double.java.

References build_cpp_object().

11.70.2.8 parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::Pointset_Powerset_BD_Shape_double (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_BD_Shape_double.java.

References build_cpp_object().

11.70.3 Member Function Documentation

11.70.3.1 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::add_congruence (Congruence *c*)

11.70.3.2 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::add_congruences (Congruence_System *c*)

11.70.3.3 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::add_constraint (Constraint *c*)

11.70.3.4 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::add_constraints (Constraint_System *c*)

11.70.3.5 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::add_disjunct (BD_Shape_double *j_disj*)

11.70.3.6 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::add_space_dimensions_and_embed (long *m*)

11.70.3.7 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::add_space_dimensions_and_project (long *m*)

11.70.3.8 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::affine_dimension ()

11.70.3.9 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.70.3.10 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.70.3.11 native String parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::ascii_dump ()

11.70.3.12 native Pointset_Powerset_BD_Shape_double_Iterator parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::begin_iterator ()

11.70.3.13 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_BD_Shape_double *y*, Integer *d*)

11.70.3.14 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::BGP99_H79_extrapolation_assign (Pointset_Powerset_BD_Shape_double *y*, Integer *d*)

11.70.3.15 native void parma_polyhedra_library::Pointset_Powerset_-BD_Shape_double::BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_BD_Shape_double *y*)

11.70.3.16 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::BHZ03_H79_H79_widening_assign (Pointset_Powerset_BD_Shape_double *y*)

11.70.3.17 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.70.3.18 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.70.3.19 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::bounds_from_above (Linear_Expression *expr*)

11.70.3.20 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::bounds_from_below (Linear_Expression *expr*)

11.70.3.21 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) `[private]`

11.70.3.22 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::build_cpp_object (BD_Shape_double *y*) [private]

11.70.3.23 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::build_cpp_object (Pointset_Powerset_BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.70.3.24 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::build_cpp_object (Pointset_Powerset_BD_Shape_double *y*) [private]

11.70.3.25 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.70.3.26 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::build_cpp_object (Congruence_System *cs*) [private]

11.70.3.27 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_BD_Shape_double().

11.70.3.28 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::concatenate_assign (Pointset_Powerset_BD_Shape_double *p*)

11.70.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::constrains (Variable *var*)

11.70.3.30 native boolean parma_polyhedra_library::Pointset_Powerset_BD_-Shape_double::contains (Pointset_Powerset_BD_Shape_double *y*)

11.70.3.31 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::contains_integer_point ()

11.70.3.32 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::difference_assign (Pointset_Powerset_BD_Shape_double *p*)

11.70.3.33 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::drop_disjunct (Pointset_Powerset_BD_Shape_double_Iterator *itr*)

11.70.3.34 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::drop_disjuncts (Pointset_Powerset_BD_Shape_double_Iterator *itr1*, Pointset_Powerset_BD_Shape_double_Iterator *itr2*)

11.70.3.35 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::drop_-some_non_integer_points (Integer *complexity_threshold*)

11.70.3.36 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.70.3.37 native Pointset_Powerset_BD_Shape_double_Iterator parma_-polyhedra_library::Pointset_Powerset_BD_Shape_double::end_iterator ()

11.70.3.38 boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::equals (Object *y*) [inline]

Definition at line 190 of file Pointset_Powerset_BD_Shape_double.java.

References equals().

11.70.3.39 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::equals (Pointset_Powerset_BD_Shape_double *p*)

Referenced by equals().

11.70.3.40 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::expand_space_dimension (Variable *var*, long *m*)

11.70.3.41 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::external_memory_in_bytes ()

11.70.3.42 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::finalize () [protected]

11.70.3.43 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.70.3.44 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::free ()

11.70.3.45 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.70.3.46 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.70.3.47 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.70.3.48 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.70.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::geometrically_covers (Pointset_Powerset_BD_Shape_double *y*)

11.70.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::geometrically_equals (Pointset_Powerset_BD_Shape_double *y*)

11.70.3.51 native int parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::hashCode ()

11.70.3.52 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::intersection_assign (Pointset_Powerset_BD_Shape_double *p*)

11.70.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::is_-bounded ()

11.70.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::is_discrete ()

11.70.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::is_disjoint_from (Pointset_Powerset_BD_Shape_double *y*)

11.70.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::is_empty ()

11.70.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::is_topologically_closed ()

11.70.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::is_universe ()

11.70.3.59 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::map_space_dimensions (Partial_Function *pfunc*)

11.70.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.70.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.70.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.70.3.63 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.70.3.64 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::OK ()

11.70.3.65 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::omega_-reduce ()

11.70.3.66 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::pairwise_reduce ()

11.70.3.67 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::refine_-with_congruence (Congruence *c*)

11.70.3.68 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_double::refine_with_congruences (Congruence_System *c*)

11.70.3.69 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::refine_-with_constraint (Constraint *c*)

11.70.3.70 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::refine_-with_constraints (Constraint_System *c*)

11.70.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::relation_with (Congruence *c*)

11.70.3.72 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::relation_with (Generator *c*)

11.70.3.73 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::relation_with (Constraint *c*)

11.70.3.74 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::remove_higher_space_dimensions (long *new_dimension*)

11.70.3.75 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::remove_space_dimensions (Variables_Set *vars*)

11.70.3.76 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::simplify_using_context_assign (Pointset_Powerset_BD_Shape_double *p*)

11.70.3.77 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::size ()

11.70.3.78 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::space_-dimension ()

11.70.3.79 native boolean parma_polyhedra_library::Pointset_Powerset_BD_-Shape_double::strictly_contains (Pointset_Powerset_BD_Shape_double *y*)

11.70.3.80 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::swap (Pointset_Powerset_BD_Shape_double *y*)

11.70.3.81 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::time_elapse_assign (Pointset_Powerset_BD_Shape_double *p*)

11.70.3.82 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::topological_closure_assign ()

11.70.3.83 native String parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::toString ()

11.70.3.84 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_double::total_-memory_in_bytes ()

11.70.3.85 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::unconstrain_space_dimension (Variable *var*)

11.70.3.86 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_double::unconstrain_space_dimensions (Variables_Set *vars*)

11.70.3.87 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::upper_bound_assign (Pointset_Powerset_BD_Shape_double *p*)

11.70.3.88 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double::upper_bound_assign_if_exact (Pointset_Powerset_BD_Shape_double *y*)

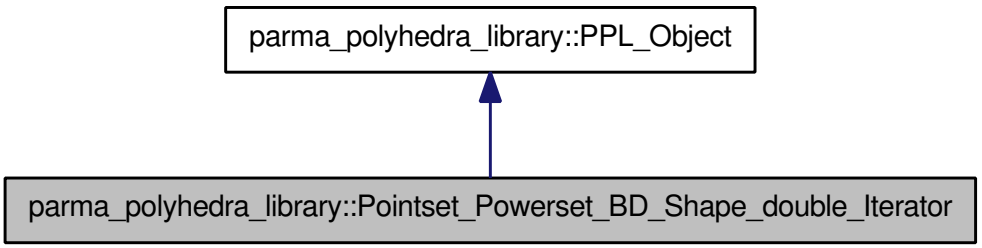
The documentation for this class was generated from the following file:

- Pointset_Powerset_BD_Shape_double.java

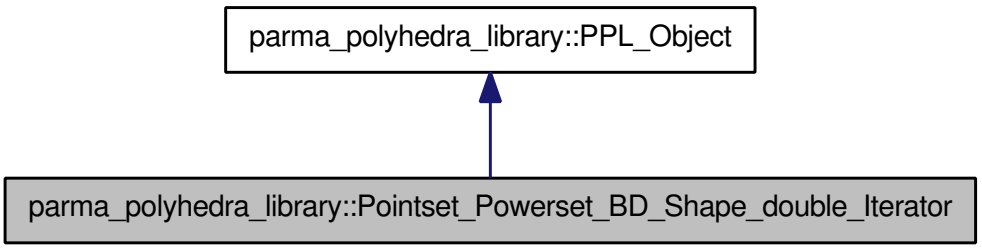
11.71 parma_polyhedra_library::Pointset_Powerset_BD_Shape_double_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<double> >:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_double_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_double_Iterator:



Public Member Functions

- Pointset_Powerset_BD_Shape_double_Iterator (Pointset_Powerset_BD_Shape_double_Iterator y)
- native boolean equals (Pointset_Powerset_BD_Shape_double_Iterator itr)
- native void next ()
- native void prev ()
- native BD_Shape_double get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_BD_Shape_double_Iterator ()
- native void build_ppl_object (Pointset_Powerset_BD_Shape_double obj)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_double_Iterator y)

11.71.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<double> >:: iterator.

Definition at line 30 of file Pointset_Powerset_BD_Shape_double_Iterator.java.

11.71.2 Constructor & Destructor Documentation

11.71.2.1 parma_polyhedra_library::Pointset_Powerset_BD_Shape_double_Iterator::Pointset_Powerset_BD_Shape_double_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_BD_Shape_double_Iterator.java.

11.71.2.2 parma_polyhedra_library::Pointset_Powerset_BD_Shape_double_Iterator::Pointset_Powerset_BD_Shape_double_Iterator (Pointset_Powerset_BD_Shape_double_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_BD_Shape_double_Iterator.java.

References build_cpp_object().

11.71.3 Member Function Documentation

11.71.3.1 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double_Iterator::build_cpp_object (Pointset_Powerset_BD_Shape_double_Iterator *y*) [private]

Referenced by Pointset_Powerset_BD_Shape_double_Iterator().

11.71.3.2 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double_Iterator::build_ppl_object (Pointset_Powerset_BD_Shape_double *obj*) [private]

11.71.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_double_Iterator::equals (Pointset_Powerset_BD_Shape_double_Iterator *itr*)

11.71.3.4 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double_-Iterator::finalize () [protected]

11.71.3.5 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double_-Iterator::free ()

11.71.3.6 native BD_Shape_double parma_polyhedra_library::Pointset_Powerset_BD_Shape_-double_Iterator::get_disjunct ()

11.71.3.7 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double_-Iterator::next ()

11.71.3.8 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_double_-Iterator::prev ()

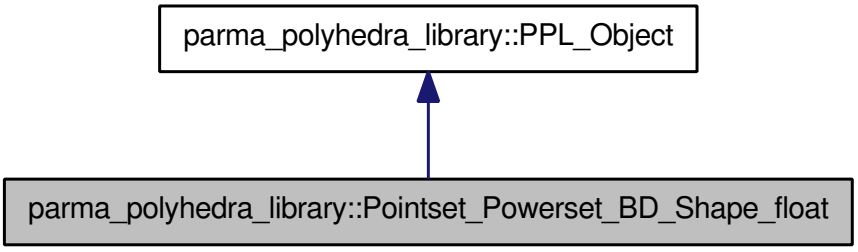
The documentation for this class was generated from the following file:

- Pointset_Powerset_BD_Shape_double_Iterator.java

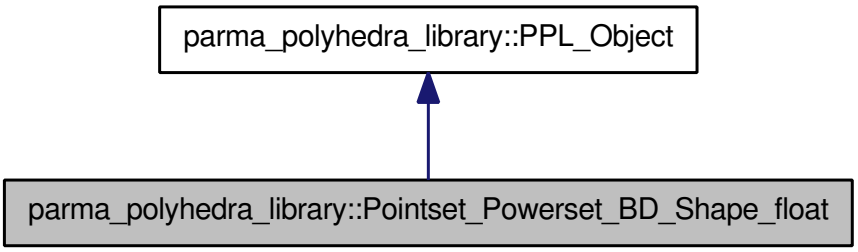
11.72 parma_polyhedra_library::Pointset_Powerset_BD_Shape_float Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<float> >

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_float:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_float:



Public Member Functions

- Pointset_Powerset_BD_Shape_float (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_BD_Shape_float (Pointset_Powerset_BD_Shape_float y)
- Pointset_Powerset_BD_Shape_float (BD_Shape_float y)
- Pointset_Powerset_BD_Shape_float (Pointset_Powerset_BD_Shape_float y, Complexity_Class complexity)
- Pointset_Powerset_BD_Shape_float (BD_Shape_float y, Complexity_Class complexity)
- Pointset_Powerset_BD_Shape_float (Constraint_System cs)
- Pointset_Powerset_BD_Shape_float (Congruence_System cs)
- native void swap (Pointset_Powerset_BD_Shape_float y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_BD_Shape_float y)
- native boolean strictly_contains (Pointset_Powerset_BD_Shape_float y)
- native boolean is_disjoint_from (Pointset_Powerset_BD_Shape_float y)

- native boolean geometrically_covers (Pointset_Powerset_BD_Shape_float y)
- native boolean geometrically_equals (Pointset_Powerset_BD_Shape_float y)
- native boolean equals (Pointset_Powerset_BD_Shape_float p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_BD_Shape_float p)
- native void upper_bound_assign (Pointset_Powerset_BD_Shape_float p)
- native void difference_assign (Pointset_Powerset_BD_Shape_float p)
- native void concatenate_assign (Pointset_Powerset_BD_Shape_float p)
- native void time_elapse_assign (Pointset_Powerset_BD_Shape_float p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_BD_Shape_float y)
- native boolean simplify_using_context_assign (Pointset_Powerset_BD_Shape_float p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()

- native Pointset_Powerset_BD_Shape_float_Iterator begin_iterator ()
- native Pointset_Powerset_BD_Shape_float_Iterator end_iterator ()
- native void add_disjunct (BD_Shape_float j_disj)
- native void drop_disjunct (Pointset_Powerset_BD_Shape_float_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_BD_Shape_float_Iterator itr1, Pointset_Powerset_-BD_Shape_float_Iterator itr2)
- native void BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_BD_Shape_float y)
- native void BHZ03_H79_H79_widening_assign (Pointset_Powerset_BD_Shape_float y)
- native void BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_BD_Shape_float y, Integer d)
- native void BGP99_H79_extrapolation_assign (Pointset_Powerset_BD_Shape_float y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_BD_Shape_float ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_float y)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)

11.72.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<float> >

Definition at line 33 of file Pointset_Powerset_BD_Shape_float.java.

11.72.2 Constructor & Destructor Documentation

11.72.2.1 parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::Pointset_-Powerset_BD_Shape_float (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_BD_Shape_float.java.

References build_cpp_object().

11.72.2.2 parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::Pointset_Powerset_BD_Shape_float () [inline, private]

Definition at line 45 of file Pointset_Powerset_BD_Shape_float.java.

11.72.2.3 parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::Pointset_Powerset_BD_Shape_float (Pointset_Powerset_BD_Shape_float *y*) [inline]

Definition at line 52 of file Pointset_Powerset_BD_Shape_float.java.

References build_cpp_object().

11.72.2.4 parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::Pointset_Powerset_BD_Shape_float (BD_Shape_float *y*) [inline]

Definition at line 56 of file Pointset_Powerset_BD_Shape_float.java.

References build_cpp_object().

11.72.2.5 parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::Pointset_Powerset_BD_Shape_float (Pointset_Powerset_BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_BD_Shape_float.java.

References build_cpp_object().

11.72.2.6 parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::Pointset_Powerset_BD_Shape_float (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_BD_Shape_float.java.

References build_cpp_object().

11.72.2.7 parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::Pointset_Powerset_BD_Shape_float (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_BD_Shape_float.java.

References build_cpp_object().

11.72.2.8 parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::Pointset_Powerset_BD_Shape_float (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_BD_Shape_float.java.

References build_cpp_object().

11.72.3 Member Function Documentation

11.72.3.1 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::add_congruence (Congruence *c*)

11.72.3.2 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::add_congruences (Congruence_System *c*)

11.72.3.3 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::add_constraint (Constraint *c*)

11.72.3.4 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::add_constraints (Constraint_System *c*)

11.72.3.5 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::add_disjunct (BD_Shape_float *j_disj*)

11.72.3.6 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::add_space_dimensions_and_embed (long *m*)

11.72.3.7 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::add_space_dimensions_and_project (long *m*)

11.72.3.8 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::affine_dimension ()

11.72.3.9 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.72.3.10 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.72.3.11 native String parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::ascii_dump ()

11.72.3.12 native Pointset_Powerset_BD_Shape_float_Iterator parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::begin_iterator ()

11.72.3.13 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_BD_Shape_float *y*, Integer *d*)

11.72.3.14 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::BGP99_H79_extrapolation_assign (Pointset_Powerset_BD_Shape_float *y*, Integer *d*)

11.72.3.15 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_BD_Shape_float *y*)

11.72.3.16 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-float::BHZ03_H79_H79_widening_assign (Pointset_Powerset_BD_Shape_float *y*)

11.72.3.17 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::bounded_-affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.72.3.18 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::bounded_-affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.72.3.19 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-float::bounds_from_above (Linear_Expression *expr*)

11.72.3.20 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-float::bounds_from_below (Linear_Expression *expr*)

11.72.3.21 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-float::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) `[private]`

11.72.3.22 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::build_-cpp_object (BD_Shape_float *y*) `[private]`

11.72.3.23 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::build_-cpp_object (Pointset_Powerset_BD_Shape_float *y*, Complexity_Class *complexity*) `[private]`

11.72.3.24 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::build_cpp_object (Pointset_Powerset_BD_Shape_float *y*) [private]

11.72.3.25 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.72.3.26 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::build_cpp_object (Congruence_System *cs*) [private]

11.72.3.27 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_BD_Shape_float().

11.72.3.28 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::concatenate_assign (Pointset_Powerset_BD_Shape_float *p*)

11.72.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::constrains (Variable *var*)

11.72.3.30 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::contains (Pointset_Powerset_BD_Shape_float *y*)

11.72.3.31 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::contains_integer_point ()

11.72.3.32 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::difference_assign (Pointset_Powerset_BD_Shape_float *p*)

11.72.3.33 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::drop_disjunct (Pointset_Powerset_BD_Shape_float_Iterator *itr*)

11.72.3.34 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::drop_disjuncts (Pointset_Powerset_BD_Shape_float_Iterator *itr1*, Pointset_Powerset_BD_Shape_float_Iterator *itr2*)

11.72.3.35 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::drop_some_non_integer_points (Integer *complexity_threshold*)

11.72.3.36 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.72.3.37 native Pointset_Powerset_BD_Shape_float_Iterator parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::end_iterator ()

11.72.3.38 boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_BD_Shape_float.java.

References equals().

11.72.3.39 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::equals (Pointset_Powerset_BD_Shape_float *p*)

Referenced by equals().

11.72.3.40 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::expand_space_dimension (Variable *var*, long *m*)

11.72.3.41 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::external_memory_in_bytes ()

11.72.3.42 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::finalize () [protected]

11.72.3.43 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.72.3.44 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::free ()

11.72.3.45 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.72.3.46 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.72.3.47 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.72.3.48 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.72.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::geometrically_covers (Pointset_Powerset_BD_Shape_float *y*)

11.72.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::geometrically_equals (Pointset_Powerset_BD_Shape_float *y*)

11.72.3.51 native int parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::hashCode ()

11.72.3.52 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::intersection_assign (Pointset_Powerset_BD_Shape_float *p*)

11.72.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::is_bounded ()

11.72.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::is_discrete ()

11.72.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::is_disjoint_from (Pointset_Powerset_BD_Shape_float *y*)

11.72.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::is_empty ()

11.72.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::is_topologically_closed ()

11.72.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::is_universe ()

11.72.3.59 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::map_space_dimensions (Partial_Function *pfunc*)

11.72.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.72.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.72.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.72.3.63 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.72.3.64 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::OK ()

11.72.3.65 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::omega_reduce ()

11.72.3.66 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::pairwise_reduce ()

11.72.3.67 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::refine_with_congruence (Congruence *c*)

11.72.3.68 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::refine_with_congruences (Congruence_System *c*)

11.72.3.69 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::refine_with_constraint (Constraint *c*)

11.72.3.70 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::refine_with_constraints (Constraint_System *c*)

11.72.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::relation_with (Congruence *c*)

11.72.3.72 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::relation_with (Generator *c*)

11.72.3.73 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::relation_with (Constraint *c*)

11.72.3.74 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::remove_higher_space_dimensions (long *new_dimension*)

11.72.3.75 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::remove_space_dimensions (Variables_Set *vars*)

11.72.3.76 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::simplify_using_context_assign (Pointset_Powerset_BD_Shape_float *p*)

11.72.3.77 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::size ()

11.72.3.78 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::space_dimension ()

11.72.3.79 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::strictly_contains (Pointset_Powerset_BD_Shape_float *y*)

11.72.3.80 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::swap (Pointset_Powerset_BD_Shape_float *y*)

11.72.3.81 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::time_elapse_assign (Pointset_Powerset_BD_Shape_float *p*)

11.72.3.82 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::topological_closure_assign ()

11.72.3.83 native String parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::toString ()

11.72.3.84 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_float::total_memory_in_bytes ()

11.72.3.85 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-float::unconstrain_space_dimension (Variable *var*)

11.72.3.86 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-float::unconstrain_space_dimensions (Variables_Set *vars*)

11.72.3.87 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_float::upper_bound_assign (Pointset_Powerset_BD_Shape_float *p*)

11.72.3.88 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-float::upper_bound_assign_if_exact (Pointset_Powerset_BD_Shape_float *y*)

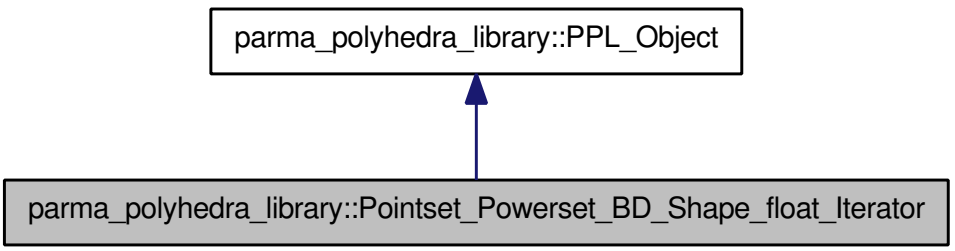
The documentation for this class was generated from the following file:

- Pointset_Powerset_BD_Shape_float.java

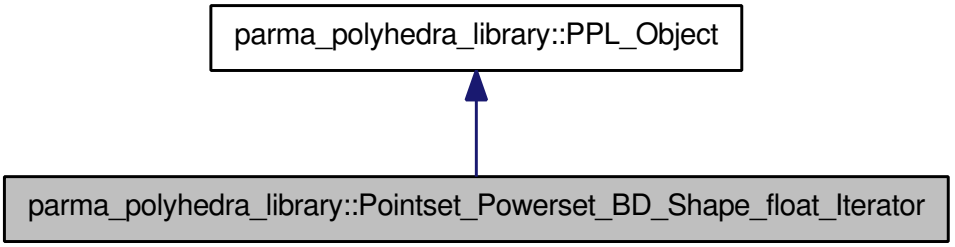
11.73 parma_polyhedra_library::Pointset_Powerset_BD_Shape_float_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<float> >:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_float_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_float_Iterator:



Public Member Functions

- Pointset_Powerset_BD_Shape_float_Iterator (Pointset_Powerset_BD_Shape_float_Iterator y)
- native boolean equals (Pointset_Powerset_BD_Shape_float_Iterator itr)
- native void next ()
- native void prev ()
- native BD_Shape_float get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_BD_Shape_float_Iterator ()
- native void build_ppl_object (Pointset_Powerset_BD_Shape_float obj)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_float_Iterator y)

11.73.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<float> >:: iterator.

Definition at line 30 of file Pointset_Powerset_BD_Shape_float_Iterator.java.

11.73.2 Constructor & Destructor Documentation

11.73.2.1 parma_polyhedra_library::Pointset_Powerset_BD_Shape_float_-Iterator::Pointset_Powerset_BD_Shape_float_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_BD_Shape_float_Iterator.java.

11.73.2.2 parma_polyhedra_library::Pointset_Powerset_BD_Shape_float_Iterator::Pointset_Powerset_BD_Shape_float_Iterator (Pointset_Powerset_BD_Shape_float_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_BD_Shape_float_Iterator.java.

References build_cpp_object().

11.73.3 Member Function Documentation

11.73.3.1 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float_Iterator::build_cpp_object (Pointset_Powerset_BD_Shape_float_Iterator *y*) [private]

Referenced by Pointset_Powerset_BD_Shape_float_Iterator().

11.73.3.2 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float_Iterator::build_ppl_object (Pointset_Powerset_BD_Shape_float *obj*) [private]

11.73.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_float_Iterator::equals (Pointset_Powerset_BD_Shape_float_Iterator *itr*)

11.73.3.4 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float_Iterator::finalize () [protected]

11.73.3.5 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float_Iterator::free ()

11.73.3.6 native BD_Shape_float parma_polyhedra_library::Pointset_Powerset_BD_Shape_float_Iterator::get_disjunct ()

11.73.3.7 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float_-Iterator::next ()

11.73.3.8 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_float_-Iterator::prev ()

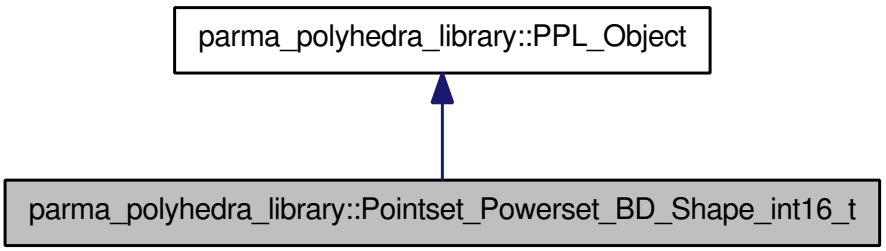
The documentation for this class was generated from the following file:

- Pointset_Powerset_BD_Shape_float_Iterator.java

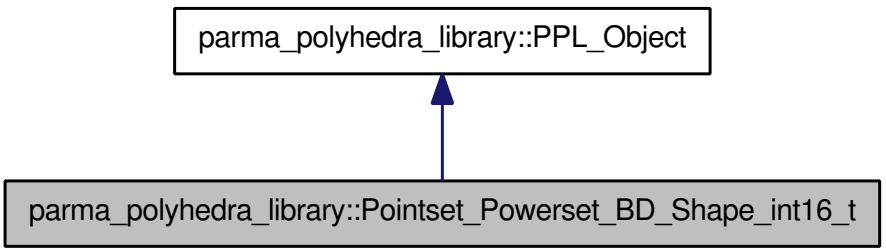
11.74 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int16_t> >

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t:



Public Member Functions

- Pointset_Powerset_BD_Shape_int16_t (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_BD_Shape_int16_t (Pointset_Powerset_BD_Shape_int16_t y)
- Pointset_Powerset_BD_Shape_int16_t (BD_Shape_int16_t y)
- Pointset_Powerset_BD_Shape_int16_t (Pointset_Powerset_BD_Shape_int16_t y, Complexity_-Class complexity)
- Pointset_Powerset_BD_Shape_int16_t (BD_Shape_int16_t y, Complexity_Class complexity)

- Pointset_Powerset_BD_Shape_int16_t (Constraint_System cs)
- Pointset_Powerset_BD_Shape_int16_t (Congruence_System cs)
- native void swap (Pointset_Powerset_BD_Shape_int16_t y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_BD_Shape_int16_t y)
- native boolean strictly_contains (Pointset_Powerset_BD_Shape_int16_t y)
- native boolean is_disjoint_from (Pointset_Powerset_BD_Shape_int16_t y)
- native boolean geometrically_covers (Pointset_Powerset_BD_Shape_int16_t y)
- native boolean geometrically_equals (Pointset_Powerset_BD_Shape_int16_t y)
- native boolean equals (Pointset_Powerset_BD_Shape_int16_t p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_BD_Shape_int16_t p)
- native void upper_bound_assign (Pointset_Powerset_BD_Shape_int16_t p)
- native void difference_assign (Pointset_Powerset_BD_Shape_int16_t p)
- native void concatenate_assign (Pointset_Powerset_BD_Shape_int16_t p)
- native void time_elapse_assign (Pointset_Powerset_BD_Shape_int16_t p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_BD_Shape_int16_t y)
- native boolean simplify_using_context_assign (Pointset_Powerset_BD_Shape_int16_t p)

- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_BD_Shape_int16_t_Iterator begin_iterator ()
- native Pointset_Powerset_BD_Shape_int16_t_Iterator end_iterator ()
- native void add_disjunct (BD_Shape_int16_t j_disj)
- native void drop_disjunct (Pointset_Powerset_BD_Shape_int16_t_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_BD_Shape_int16_t_Iterator itr1, Pointset_Powerset_BD_Shape_int16_t_Iterator itr2)
- native void BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_BD_Shape_int16_t y)
- native void BHZ03_H79_H79_widening_assign (Pointset_Powerset_BD_Shape_int16_t y)
- native void BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_BD_Shape_int16_t y, Integer d)
- native void BGP99_H79_extrapolation_assign (Pointset_Powerset_BD_Shape_int16_t y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_BD_Shape_int16_t ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_int16_t y)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)

11.74.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int16_t> >

Definition at line 33 of file Pointset_Powerset_BD_Shape_int16_t.java.

11.74.2 Constructor & Destructor Documentation

11.74.2.1 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::Pointset_Powerset_BD_Shape_int16_t (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_BD_Shape_int16_t.java.

References build_cpp_object().

11.74.2.2 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::Pointset_Powerset_BD_Shape_int16_t () [inline, private]

Definition at line 45 of file Pointset_Powerset_BD_Shape_int16_t.java.

11.74.2.3 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::Pointset_Powerset_BD_Shape_int16_t (Pointset_Powerset_BD_Shape_int16_t *y*) [inline]

Definition at line 52 of file Pointset_Powerset_BD_Shape_int16_t.java.

References build_cpp_object().

11.74.2.4 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::Pointset_Powerset_BD_Shape_int16_t (BD_Shape_int16_t *y*) [inline]

Definition at line 56 of file Pointset_Powerset_BD_Shape_int16_t.java.

References build_cpp_object().

11.74.2.5 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::Pointset_Powerset_BD_Shape_int16_t (Pointset_Powerset_BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_BD_Shape_int16_t.java.

References build_cpp_object().

11.74.2.6 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::Pointset_Powerset_BD_Shape_int16_t (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_BD_Shape_int16_t.java.

References build_cpp_object().

11.74.2.7 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::Pointset_Powerset_BD_Shape_int16_t (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_BD_Shape_int16_t.java.

References build_cpp_object().

11.74.2.8 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::Pointset_Powerset_BD_Shape_int16_t (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_BD_Shape_int16_t.java.

References build_cpp_object().

11.74.3 Member Function Documentation

11.74.3.1 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::add_congruence (Congruence *c*)

11.74.3.2 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::add_congruences (Congruence_System *c*)

11.74.3.3 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::add_constraint (Constraint *c*)

11.74.3.4 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::add_constraints (Constraint_System *c*)

11.74.3.5 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::add_disjunct (BD_Shape_int16_t *j_disj*)

11.74.3.6 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::add_space_dimensions_and_embed (long *m*)

11.74.3.7 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::add_space_dimensions_and_project (long *m*)

11.74.3.8 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::affine_dimension ()

11.74.3.9 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.74.3.10 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.74.3.11 native String parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::ascii_dump ()

11.74.3.12 native Pointset_Powerset_BD_Shape_int16_t_Iterator parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::begin_iterator ()

11.74.3.13 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_BD_Shape_int16_t *y*, Integer *d*)

11.74.3.14 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::BGP99_H79_extrapolation_assign (Pointset_Powerset_BD_Shape_int16_t *y*, Integer *d*)

11.74.3.15 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_BD_Shape_int16_t *y*)

11.74.3.16 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::BHZ03_H79_H79_widening_assign (Pointset_Powerset_BD_Shape_int16_t *y*)

11.74.3.17 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.74.3.18 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.74.3.19 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_-t::bounds_from_above (Linear_Expression *expr*)

11.74.3.20 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_-t::bounds_from_below (Linear_Expression *expr*)

11.74.3.21 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_-t::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.74.3.22 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::build_-cpp_object (BD_Shape_int16_t *y*) [private]

11.74.3.23 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::build_-cpp_object (Pointset_Powerset_BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.74.3.24 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-int16_t::build_cpp_object (Pointset_Powerset_BD_Shape_int16_t *y*) [private]

11.74.3.25 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_-t::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.74.3.26 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::build_-cpp_object (Congruence_System *cs*) [private]

11.74.3.27 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::build_-cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_BD_Shape_int16_t().

11.74.3.28 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::concatenate_assign (Pointset_Powerset_BD_Shape_int16_t *p*)

11.74.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::constrains (Variable *var*)

11.74.3.30 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::contains (Pointset_Powerset_BD_Shape_int16_t *y*)

11.74.3.31 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::contains_integer_point ()

11.74.3.32 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::difference_assign (Pointset_Powerset_BD_Shape_int16_t *p*)

11.74.3.33 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::drop_disjunct (Pointset_Powerset_BD_Shape_int16_t_Iterator *itr*)

11.74.3.34 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::drop_disjuncts (Pointset_Powerset_BD_Shape_int16_t_Iterator *itr1*, Pointset_Powerset_BD_Shape_int16_t_Iterator *itr2*)

11.74.3.35 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::drop_some_non_integer_points (Integer *complexity_threshold*)

11.74.3.36 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-int16_t::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.74.3.37 native Pointset_Powerset_BD_Shape_int16_t_Iterator parma_-polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::end_iterator ()

11.74.3.38 boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_BD_Shape_int16_t.java.

References equals().

11.74.3.39 native boolean parma_polyhedra_library::Pointset_Powerset_-BD_Shape_int16_t::equals (Pointset_Powerset_BD_Shape_int16_t *p*)

Referenced by equals().

11.74.3.40 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_int16_t::expand_space_dimension (Variable *var*, long *m*)

11.74.3.41 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_-t::external_memory_in_bytes ()

11.74.3.42 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::finalize () `[protected]`

11.74.3.43 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_int16_t::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.74.3.44 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::free ()

11.74.3.45 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.74.3.46 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.74.3.47 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.74.3.48 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.74.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::geometrically_covers (Pointset_Powerset_BD_Shape_int16_t *y*)

11.74.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::geometrically_equals (Pointset_Powerset_BD_Shape_int16_t *y*)

11.74.3.51 native int parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::hashCode ()

11.74.3.52 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::intersection_assign (Pointset_Powerset_BD_Shape_int16_t *p*)

11.74.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::is_bounded ()

11.74.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::is_discrete ()

11.74.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::is_disjoint_from (Pointset_Powerset_BD_Shape_int16_t *y*)

11.74.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::is_empty ()

11.74.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::is_topologically_closed ()

11.74.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::is_universe ()

11.74.3.59 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::map_space_dimensions (Partial_Function *pfunc*)

11.74.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.74.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.74.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.74.3.63 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.74.3.64 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::OK ()

11.74.3.65 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::omega_reduce ()

11.74.3.66 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::pairwise_reduce ()

11.74.3.67 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::refine_with_congruence (Congruence *c*)

11.74.3.68 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::refine_with_congruences (Congruence_System *c*)

11.74.3.69 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::refine_with_constraint (Constraint *c*)

11.74.3.70 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::refine_with_constraints (Constraint_System *c*)

11.74.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::relation_with (Congruence *c*)

11.74.3.72 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::relation_with (Generator *c*)

11.74.3.73 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::relation_with (Constraint *c*)

11.74.3.74 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::remove_higher_space_dimensions (long *new_dimension*)

11.74.3.75 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::remove_space_dimensions (Variables_Set *vars*)

11.74.3.76 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::simplify_using_context_assign (Pointset_Powerset_BD_Shape_int16_t *p*)

11.74.3.77 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::size ()

11.74.3.78 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::space_dimension ()

11.74.3.79 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::strictly_contains (Pointset_Powerset_BD_Shape_int16_t *y*)

11.74.3.80 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::swap (Pointset_Powerset_BD_Shape_int16_t *y*)

11.74.3.81 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::time_elapse_assign (Pointset_Powerset_BD_Shape_int16_t *p*)

11.74.3.82 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::topological_closure_assign ()

11.74.3.83 native String parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::toString ()

11.74.3.84 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::total_memory_in_bytes ()

11.74.3.85 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::unconstrain_space_dimension (Variable *var*)

11.74.3.86 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::unconstrain_space_dimensions (Variables_Set *vars*)

11.74.3.87 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::upper_bound_assign (Pointset_Powerset_BD_Shape_int16_t *p*)

11.74.3.88 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t::upper_bound_assign_if_exact (Pointset_Powerset_BD_Shape_int16_t *y*)

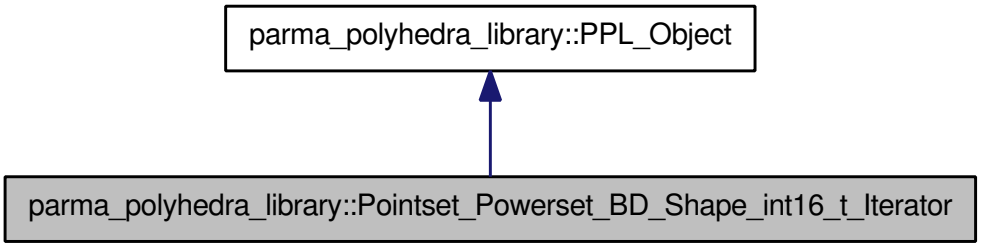
The documentation for this class was generated from the following file:

- Pointset_Powerset_BD_Shape_int16_t.java

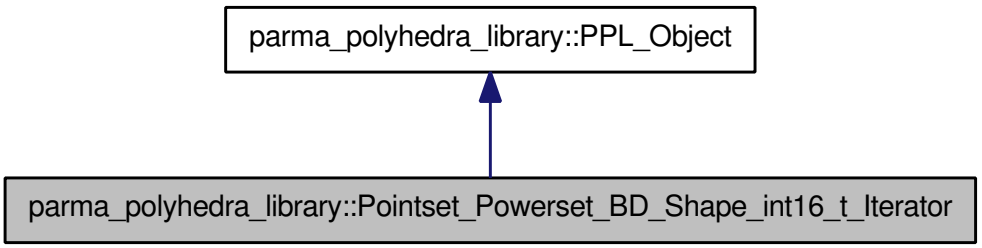
11.75 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int16_t> >:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t_Iterator:



Public Member Functions

- Pointset_Powerset_BD_Shape_int16_t_Iterator (Pointset_Powerset_BD_Shape_int16_t_Iterator y)
- native boolean equals (Pointset_Powerset_BD_Shape_int16_t_Iterator itr)
- native void next ()
- native void prev ()
- native BD_Shape_int16_t get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_BD_Shape_int16_t_Iterator ()
- native void build_ppl_object (Pointset_Powerset_BD_Shape_int16_t obj)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_int16_t_Iterator y)

11.75.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int16_t> >:: iterator.

Definition at line 30 of file Pointset_Powerset_BD_Shape_int16_t_Iterator.java.

11.75.2 Constructor & Destructor Documentation

11.75.2.1 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t_Iterator::Pointset_Powerset_BD_Shape_int16_t_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_BD_Shape_int16_t_Iterator.java.

11.75.2.2 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t_Iterator::Pointset_Powerset_BD_Shape_int16_t_Iterator (Pointset_Powerset_BD_Shape_int16_t_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_BD_Shape_int16_t_Iterator.java.

References build_cpp_object().

11.75.3 Member Function Documentation

11.75.3.1 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t_Iterator::build_cpp_object (Pointset_Powerset_BD_Shape_int16_t_Iterator *y*) [private]

Referenced by Pointset_Powerset_BD_Shape_int16_t_Iterator().

11.75.3.2 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t_Iterator::build_ppl_object (Pointset_Powerset_BD_Shape_int16_t *obj*) [private]

11.75.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t_Iterator::equals (Pointset_Powerset_BD_Shape_int16_t_Iterator *itr*)

11.75.3.4 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t_Iterator::finalize () [protected]

11.75.3.5 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t_Iterator::free ()

11.75.3.6 native BD_Shape_int16_t parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t_Iterator::get_disjunct ()

11.75.3.7 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t_Iterator::next ()

11.75.3.8 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t_Iterator::prev ()

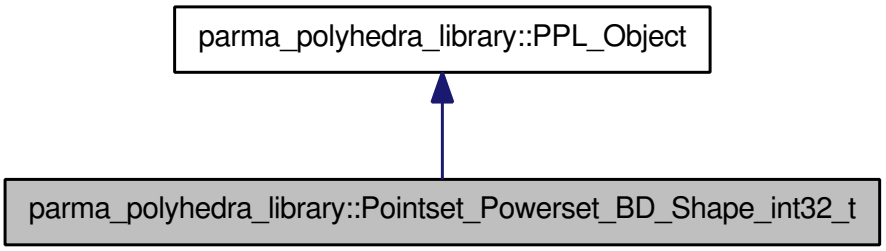
The documentation for this class was generated from the following file:

- Pointset_Powerset_BD_Shape_int16_t_Iterator.java

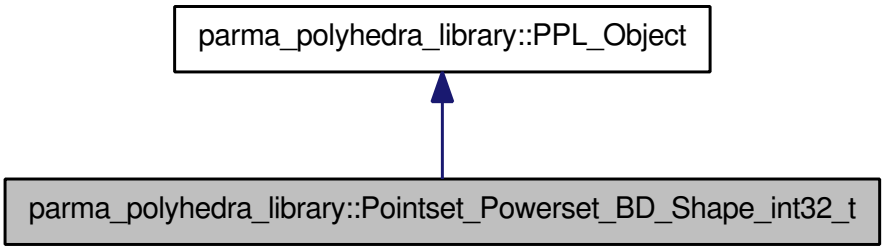
11.76 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int32_t> >

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t:



Public Member Functions

- Pointset_Powerset_BD_Shape_int32_t (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_BD_Shape_int32_t (Pointset_Powerset_BD_Shape_int32_t y)
- Pointset_Powerset_BD_Shape_int32_t (BD_Shape_int32_t y)
- Pointset_Powerset_BD_Shape_int32_t (Pointset_Powerset_BD_Shape_int32_t y, Complexity_Class complexity)
- Pointset_Powerset_BD_Shape_int32_t (BD_Shape_int32_t y, Complexity_Class complexity)
- Pointset_Powerset_BD_Shape_int32_t (Constraint_System cs)
- Pointset_Powerset_BD_Shape_int32_t (Congruence_System cs)
- native void swap (Pointset_Powerset_BD_Shape_int32_t y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)

- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_BD_Shape_int32_t y)
- native boolean strictly_contains (Pointset_Powerset_BD_Shape_int32_t y)
- native boolean is_disjoint_from (Pointset_Powerset_BD_Shape_int32_t y)
- native boolean geometrically_covers (Pointset_Powerset_BD_Shape_int32_t y)
- native boolean geometrically_equals (Pointset_Powerset_BD_Shape_int32_t y)
- native boolean equals (Pointset_Powerset_BD_Shape_int32_t p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_BD_Shape_int32_t p)
- native void upper_bound_assign (Pointset_Powerset_BD_Shape_int32_t p)
- native void difference_assign (Pointset_Powerset_BD_Shape_int32_t p)
- native void concatenate_assign (Pointset_Powerset_BD_Shape_int32_t p)
- native void time_elapse_assign (Pointset_Powerset_BD_Shape_int32_t p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_BD_Shape_int32_t y)
- native boolean simplify_using_context_assign (Pointset_Powerset_BD_Shape_int32_t p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)

- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_BD_Shape_int32_t_Iterator begin_iterator ()
- native Pointset_Powerset_BD_Shape_int32_t_Iterator end_iterator ()
- native void add_disjunct (BD_Shape_int32_t j_disj)
- native void drop_disjunct (Pointset_Powerset_BD_Shape_int32_t_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_BD_Shape_int32_t_Iterator itr1, Pointset_Powerset_BD_Shape_int32_t_Iterator itr2)
- native void BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_BD_Shape_int32_t y)
- native void BHZ03_H79_H79_widening_assign (Pointset_Powerset_BD_Shape_int32_t y)
- native void BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_BD_Shape_int32_t y, Integer d)
- native void BGP99_H79_extrapolation_assign (Pointset_Powerset_BD_Shape_int32_t y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_BD_Shape_int32_t ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_int32_t y)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)

11.76.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int32_t> >

Definition at line 33 of file Pointset_Powerset_BD_Shape_int32_t.java.

11.76.2 Constructor & Destructor Documentation

11.76.2.1 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::Pointset_Powerset_BD_Shape_int32_t (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_BD_Shape_int32_t.java.

References build_cpp_object().

11.76.2.2 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::Pointset_Powerset_BD_Shape_int32_t () [inline, private]

Definition at line 45 of file Pointset_Powerset_BD_Shape_int32_t.java.

11.76.2.3 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::Pointset_Powerset_BD_Shape_int32_t (Pointset_Powerset_BD_Shape_int32_t *y*) [inline]

Definition at line 52 of file Pointset_Powerset_BD_Shape_int32_t.java.

References build_cpp_object().

11.76.2.4 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::Pointset_Powerset_BD_Shape_int32_t (BD_Shape_int32_t *y*) [inline]

Definition at line 56 of file Pointset_Powerset_BD_Shape_int32_t.java.

References build_cpp_object().

11.76.2.5 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::Pointset_Powerset_BD_Shape_int32_t (Pointset_Powerset_BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_BD_Shape_int32_t.java.

References build_cpp_object().

11.76.2.6 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::Pointset_Powerset_BD_Shape_int32_t (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_BD_Shape_int32_t.java.

References build_cpp_object().

11.76.2.7 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::Pointset_Powerset_BD_Shape_int32_t (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_BD_Shape_int32_t.java.

References build_cpp_object().

11.76.2.8 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::Pointset_Powerset_BD_Shape_int32_t (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_BD_Shape_int32_t.java.

References build_cpp_object().

11.76.3 Member Function Documentation

11.76.3.1 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::add_congruence (Congruence *c*)

11.76.3.2 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::add_congruences (Congruence_System *c*)

11.76.3.3 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::add_constraint (Constraint *c*)

11.76.3.4 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::add_constraints (Constraint_System *c*)

11.76.3.5 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::add_disjunct (BD_Shape_int32_t *j_disj*)

11.76.3.6 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::add_space_dimensions_and_embed (long *m*)

11.76.3.7 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::add_space_dimensions_and_project (long *m*)

11.76.3.8 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::affine_dimension ()

11.76.3.9 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.76.3.10 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.76.3.11 native String parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::ascii_dump ()

11.76.3.12 native Pointset_Powerset_BD_Shape_int32_t_Iterator parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::begin_iterator ()

11.76.3.13 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_BD_Shape_int32_t *y*, Integer *d*)

11.76.3.14 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::BGP99_H79_extrapolation_assign (Pointset_Powerset_BD_Shape_int32_t *y*, Integer *d*)

11.76.3.15 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_BD_Shape_int32_t *y*)

11.76.3.16 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::BHZ03_H79_H79_widening_assign (Pointset_Powerset_BD_Shape_int32_t *y*)

11.76.3.17 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.76.3.18 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.76.3.19 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::bounds_from_above (Linear_Expression *expr*)

11.76.3.20 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::bounds_from_below (Linear_Expression *expr*)

11.76.3.21 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.76.3.22 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.76.3.23 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::build_cpp_object (Pointset_Powerset_BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.76.3.24 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::build_cpp_object (Pointset_Powerset_BD_Shape_int32_t *y*) [private]

11.76.3.25 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.76.3.26 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::build_cpp_object (Congruence_System *cs*) [private]

11.76.3.27 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_BD_Shape_int32_t().

11.76.3.28 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::concatenate_assign (Pointset_Powerset_BD_Shape_int32_t *p*)

11.76.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::constrains (Variable *var*)

11.76.3.30 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::contains (Pointset_Powerset_BD_Shape_int32_t *y*)

11.76.3.31 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::contains_integer_point ()

11.76.3.32 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::difference_assign (Pointset_Powerset_BD_Shape_int32_t *p*)

11.76.3.33 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::drop_disjunct (Pointset_Powerset_BD_Shape_int32_t_Iterator *itr*)

11.76.3.34 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::drop_disjuncts (Pointset_Powerset_BD_Shape_int32_t_Iterator *itr1*, Pointset_Powerset_BD_Shape_int32_t_Iterator *itr2*)

11.76.3.35 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::drop_some_non_integer_points (Integer *complexity_threshold*)

11.76.3.36 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.76.3.37 native Pointset_Powerset_BD_Shape_int32_t_Iterator parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::end_iterator ()

11.76.3.38 boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::equals (Object *y*) [inline]

Definition at line 190 of file Pointset_Powerset_BD_Shape_int32_t.java.

References equals().

11.76.3.39 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::equals (Pointset_Powerset_BD_Shape_int32_t *p*)

Referenced by equals().

11.76.3.40 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::expand_space_dimension (Variable *var*, long *m*)

11.76.3.41 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::external_memory_in_bytes ()

11.76.3.42 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::finalize () [protected]

11.76.3.43 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.76.3.44 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::free ()

11.76.3.45 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.76.3.46 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.76.3.47 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.76.3.48 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.76.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::geometrically_covers (Pointset_Powerset_BD_Shape_int32_t *y*)

11.76.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::geometrically_equals (Pointset_Powerset_BD_Shape_int32_t *y*)

11.76.3.51 native int parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::hashCode ()

11.76.3.52 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::intersection_assign (Pointset_Powerset_BD_Shape_int32_t *p*)

11.76.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::is_bounded ()

11.76.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::is_discrete ()

11.76.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::is_disjoint_from (Pointset_Powerset_BD_Shape_int32_t *y*)

11.76.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::is_empty ()

11.76.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::is_topologically_closed ()

11.76.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::is_universe ()

11.76.3.59 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::map_space_dimensions (Partial_Function *pfunc*)

11.76.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.76.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.76.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.76.3.63 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.76.3.64 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::OK ()

11.76.3.65 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::omega_reduce ()

11.76.3.66 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::pairwise_reduce ()

11.76.3.67 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::refine_with_congruence (Congruence *c*)

11.76.3.68 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::refine_with_congruences (Congruence_System *c*)

11.76.3.69 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::refine_with_constraint (Constraint *c*)

11.76.3.70 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::refine_with_constraints (Constraint_System *c*)

11.76.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::relation_with (Congruence *c*)

11.76.3.72 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_-int32_t::relation_with (Generator *c*)

11.76.3.73 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_-int32_t::relation_with (Constraint *c*)

11.76.3.74 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_-t::remove_higher_space_dimensions (long *new_dimension*)

11.76.3.75 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_-t::remove_space_dimensions (Variables_Set *vars*)

11.76.3.76 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-int32_t::simplify_using_context_assign (Pointset_Powerset_BD_Shape_int32_t *p*)

11.76.3.77 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::size ()

11.76.3.78 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::space_-dimension ()

11.76.3.79 native boolean parma_polyhedra_library::Pointset_Powerset_BD_-Shape_int32_t::strictly_contains (Pointset_Powerset_BD_Shape_int32_t *y*)

11.76.3.80 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::swap (Pointset_Powerset_BD_Shape_int32_t *y*)

11.76.3.81 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::time_elapse_assign (Pointset_Powerset_BD_Shape_int32_t *p*)

11.76.3.82 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::topological_closure_assign ()

11.76.3.83 native String parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::toString ()

11.76.3.84 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::total_memory_in_bytes ()

11.76.3.85 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::unconstrain_space_dimension (Variable *var*)

11.76.3.86 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::unconstrain_space_dimensions (Variables_Set *vars*)

11.76.3.87 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::upper_bound_assign (Pointset_Powerset_BD_Shape_int32_t *p*)

11.76.3.88 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t::upper_bound_assign_if_exact (Pointset_Powerset_BD_Shape_int32_t *y*)

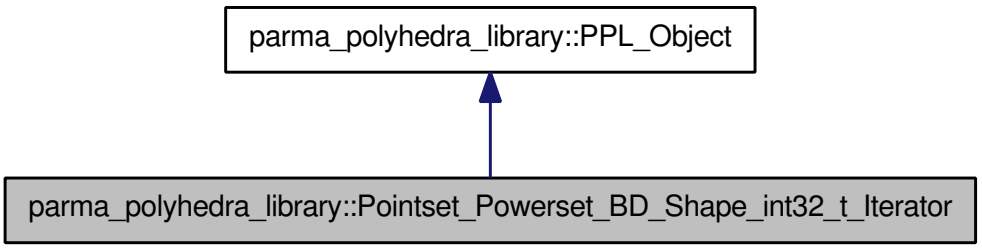
The documentation for this class was generated from the following file:

- Pointset_Powerset_BD_Shape_int32_t.java

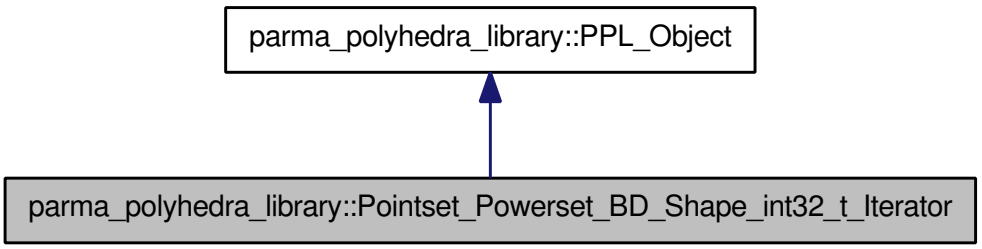
11.77 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int32_t> >:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t_Iterator:



Public Member Functions

- Pointset_Powerset_BD_Shape_int32_t_Iterator (Pointset_Powerset_BD_Shape_int32_t_Iterator y)
- native boolean equals (Pointset_Powerset_BD_Shape_int32_t_Iterator itr)
- native void next ()
- native void prev ()
- native BD_Shape_int32_t get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_BD_Shape_int32_t_Iterator ()
- native void build_ppl_object (Pointset_Powerset_BD_Shape_int32_t obj)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_int32_t_Iterator y)

11.77.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int32_t> >:: iterator.

Definition at line 30 of file Pointset_Powerset_BD_Shape_int32_t_Iterator.java.

11.77.2 Constructor & Destructor Documentation

11.77.2.1 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t_Iterator::Pointset_Powerset_BD_Shape_int32_t_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_BD_Shape_int32_t_Iterator.java.

11.77.2.2 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t_Iterator::Pointset_Powerset_BD_Shape_int32_t_Iterator (Pointset_Powerset_BD_Shape_int32_t_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_BD_Shape_int32_t_Iterator.java.

References build_cpp_object().

11.77.3 Member Function Documentation

11.77.3.1 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t_Iterator::build_cpp_object (Pointset_Powerset_BD_Shape_int32_t_Iterator *y*) [private]

Referenced by Pointset_Powerset_BD_Shape_int32_t_Iterator().

11.77.3.2 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t_Iterator::build_ppl_object (Pointset_Powerset_BD_Shape_int32_t *obj*) [private]

11.77.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t_Iterator::equals (Pointset_Powerset_BD_Shape_int32_t_Iterator *itr*)

11.77.3.4 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t_Iterator::finalize () [protected]

11.77.3.5 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t_Iterator::free ()

11.77.3.6 native BD_Shape_int32_t parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t_Iterator::get_disjunct ()

11.77.3.7 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t_Iterator::next ()

11.77.3.8 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t_Iterator::prev ()

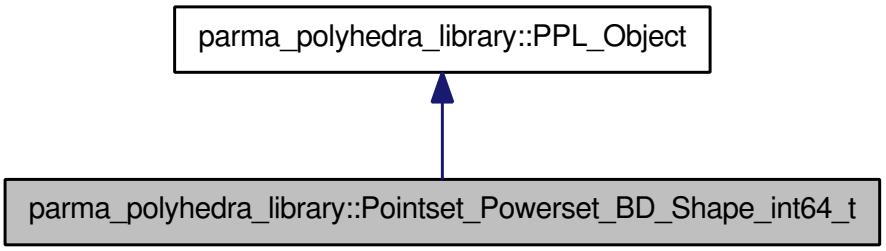
The documentation for this class was generated from the following file:

- Pointset_Powerset_BD_Shape_int32_t_Iterator.java

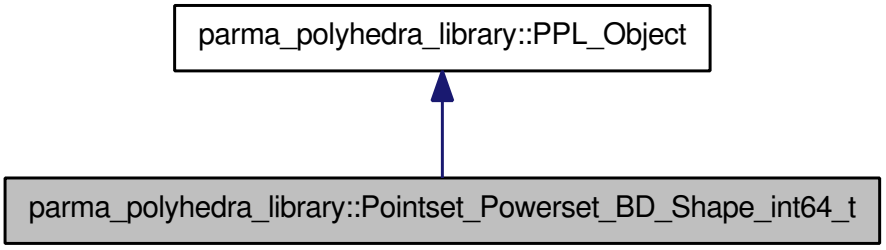
11.78 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int64_t> >

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t:



Public Member Functions

- Pointset_Powerset_BD_Shape_int64_t (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_BD_Shape_int64_t (Pointset_Powerset_BD_Shape_int64_t y)
- Pointset_Powerset_BD_Shape_int64_t (BD_Shape_int64_t y)
- Pointset_Powerset_BD_Shape_int64_t (Pointset_Powerset_BD_Shape_int64_t y, Complexity_Class complexity)
- Pointset_Powerset_BD_Shape_int64_t (BD_Shape_int64_t y, Complexity_Class complexity)
- Pointset_Powerset_BD_Shape_int64_t (Constraint_System cs)
- Pointset_Powerset_BD_Shape_int64_t (Congruence_System cs)
- native void swap (Pointset_Powerset_BD_Shape_int64_t y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_BD_Shape_int64_t y)
- native boolean strictly_contains (Pointset_Powerset_BD_Shape_int64_t y)
- native boolean is_disjoint_from (Pointset_Powerset_BD_Shape_int64_t y)
- native boolean geometrically_covers (Pointset_Powerset_BD_Shape_int64_t y)

- native boolean geometrically_equals (Pointset_Powerset_BD_Shape_int64_t y)
- native boolean equals (Pointset_Powerset_BD_Shape_int64_t p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_BD_Shape_int64_t p)
- native void upper_bound_assign (Pointset_Powerset_BD_Shape_int64_t p)
- native void difference_assign (Pointset_Powerset_BD_Shape_int64_t p)
- native void concatenate_assign (Pointset_Powerset_BD_Shape_int64_t p)
- native void time_elapse_assign (Pointset_Powerset_BD_Shape_int64_t p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_BD_Shape_int64_t y)
- native boolean simplify_using_context_assign (Pointset_Powerset_BD_Shape_int64_t p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_BD_Shape_int64_t_Iterator begin_iterator ()

- native Pointset_Powerset_BD_Shape_int64_t_Iterator end_iterator ()
- native void add_disjunct (BD_Shape_int64_t j_disj)
- native void drop_disjunct (Pointset_Powerset_BD_Shape_int64_t_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_BD_Shape_int64_t_Iterator itr1, Pointset_Powerset_BD_Shape_int64_t_Iterator itr2)
- native void BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_BD_Shape_int64_t y)
- native void BHZ03_H79_H79_widening_assign (Pointset_Powerset_BD_Shape_int64_t y)
- native void BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_BD_Shape_int64_t y, Integer d)
- native void BGP99_H79_extrapolation_assign (Pointset_Powerset_BD_Shape_int64_t y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_BD_Shape_int64_t ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_int64_t y)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)

11.78.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int64_t> >

Definition at line 33 of file Pointset_Powerset_BD_Shape_int64_t.java.

11.78.2 Constructor & Destructor Documentation

11.78.2.1 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::Pointset_Powerset_BD_Shape_int64_t (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_BD_Shape_int64_t.java.

References build_cpp_object().

11.78.2.2 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::Pointset_Powerset_BD_Shape_int64_t () [inline, private]

Definition at line 45 of file Pointset_Powerset_BD_Shape_int64_t.java.

11.78.2.3 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::Pointset_Powerset_BD_Shape_int64_t (Pointset_Powerset_BD_Shape_int64_t *y*) [inline]

Definition at line 52 of file Pointset_Powerset_BD_Shape_int64_t.java.

References build_cpp_object().

11.78.2.4 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::Pointset_Powerset_BD_Shape_int64_t (BD_Shape_int64_t *y*) [inline]

Definition at line 56 of file Pointset_Powerset_BD_Shape_int64_t.java.

References build_cpp_object().

11.78.2.5 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::Pointset_Powerset_BD_Shape_int64_t (Pointset_Powerset_BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_BD_Shape_int64_t.java.

References build_cpp_object().

11.78.2.6 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::Pointset_Powerset_BD_Shape_int64_t (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_BD_Shape_int64_t.java.

References build_cpp_object().

11.78.2.7 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::Pointset_Powerset_BD_Shape_int64_t (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_BD_Shape_int64_t.java.

References build_cpp_object().

11.78.2.8 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::Pointset_Powerset_BD_Shape_int64_t (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_BD_Shape_int64_t.java.

References build_cpp_object().

11.78.3 Member Function Documentation

11.78.3.1 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::add_congruence (Congruence *c*)

11.78.3.2 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::add_congruences (Congruence_System *c*)

11.78.3.3 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::add_constraint (Constraint *c*)

11.78.3.4 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::add_constraints (Constraint_System *c*)

11.78.3.5 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::add_disjunct (BD_Shape_int64_t *j_disj*)

11.78.3.6 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::add_space_dimensions_and_embed (long *m*)

11.78.3.7 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::add_space_dimensions_and_project (long *m*)

11.78.3.8 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::affine_dimension ()

11.78.3.9 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.78.3.10 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.78.3.11 native String parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::ascii_dump ()

11.78.3.12 native Pointset_Powerset_BD_Shape_int64_t_Iterator parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::begin_iterator ()

11.78.3.13 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_BD_Shape_int64_t *y*, Integer *d*)

11.78.3.14 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::BGP99_H79_extrapolation_assign (Pointset_Powerset_BD_Shape_int64_t *y*, Integer *d*)

11.78.3.15 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_BD_Shape_int64_t *y*)

11.78.3.16 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::BHZ03_H79_H79_widening_assign (Pointset_Powerset_BD_Shape_int64_t *y*)

11.78.3.17 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.78.3.18 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.78.3.19 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::bounds_from_above (Linear_Expression *expr*)

11.78.3.20 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::bounds_from_below (Linear_Expression *expr*)

11.78.3.21 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) `[private]`

11.78.3.22 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::build_cpp_object (BD_Shape_int64_t *y*) `[private]`

11.78.3.23 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::build_cpp_object (Pointset_Powerset_BD_Shape_int64_t *y*, Complexity_Class *complexity*) `[private]`

11.78.3.24 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-int64_t::build_cpp_object (Pointset_Powerset_BD_Shape_int64_t *y*) [private]

11.78.3.25 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_-t::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.78.3.26 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::build_-cpp_object (Congruence_System *cs*) [private]

11.78.3.27 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::build_-cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_BD_Shape_int64_t().

11.78.3.28 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-int64_t::concatenate_assign (Pointset_Powerset_BD_Shape_int64_t *p*)

11.78.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_-t::constrains (Variable *var*)

11.78.3.30 native boolean parma_polyhedra_library::Pointset_Powerset_BD_-Shape_int64_t::contains (Pointset_Powerset_BD_Shape_int64_t *y*)

11.78.3.31 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_-t::contains_integer_point ()

11.78.3.32 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::difference_assign (Pointset_Powerset_BD_Shape_int64_t *p*)

11.78.3.33 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::drop_disjunct (Pointset_Powerset_BD_Shape_int64_t_Iterator *itr*)

11.78.3.34 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::drop_disjuncts (Pointset_Powerset_BD_Shape_int64_t_Iterator *itr1*, Pointset_Powerset_BD_Shape_int64_t_Iterator *itr2*)

11.78.3.35 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::drop_some_non_integer_points (Integer *complexity_threshold*)

11.78.3.36 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.78.3.37 native Pointset_Powerset_BD_Shape_int64_t_Iterator parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::end_iterator ()

11.78.3.38 boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_BD_Shape_int64_t.java.

References equals().

11.78.3.39 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::equals (Pointset_Powerset_BD_Shape_int64_t *p*)

Referenced by equals().

11.78.3.40 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::expand_space_dimension (Variable *var*, long *m*)

11.78.3.41 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::external_memory_in_bytes ()

11.78.3.42 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::finalize () `[protected]`

11.78.3.43 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.78.3.44 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::free ()

11.78.3.45 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.78.3.46 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.78.3.47 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.78.3.48 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.78.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::geometrically_covers (Pointset_Powerset_BD_Shape_int64_t *y*)

11.78.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::geometrically_equals (Pointset_Powerset_BD_Shape_int64_t *y*)

11.78.3.51 native int parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::hashCode ()

11.78.3.52 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::intersection_assign (Pointset_Powerset_BD_Shape_int64_t *p*)

11.78.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::is_bounded ()

11.78.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::is_discrete ()

11.78.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::is_disjoint_from (Pointset_Powerset_BD_Shape_int64_t *y*)

11.78.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::is_empty ()

11.78.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::is_topologically_closed ()

11.78.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::is_universe ()

11.78.3.59 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::map_space_dimensions (Partial_Function *pfunc*)

11.78.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.78.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.78.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.78.3.63 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.78.3.64 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::OK ()

11.78.3.65 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::omega_reduce ()

11.78.3.66 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::pairwise_reduce ()

11.78.3.67 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::refine_with_congruence (Congruence *c*)

11.78.3.68 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::refine_with_congruences (Congruence_System *c*)

11.78.3.69 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::refine_with_constraint (Constraint *c*)

11.78.3.70 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::refine_with_constraints (Constraint_System *c*)

11.78.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::relation_with (Congruence *c*)

11.78.3.72 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::relation_with (Generator *c*)

11.78.3.73 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::relation_with (Constraint *c*)

11.78.3.74 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_-t::remove_higher_space_dimensions (long *new_dimension*)

11.78.3.75 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_-t::remove_space_dimensions (Variables_Set *vars*)

11.78.3.76 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-int64_t::simplify_using_context_assign (Pointset_Powerset_BD_Shape_int64_t *p*)

11.78.3.77 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::size ()

11.78.3.78 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::space_-dimension ()

11.78.3.79 native boolean parma_polyhedra_library::Pointset_Powerset_BD_-Shape_int64_t::strictly_contains (Pointset_Powerset_BD_Shape_int64_t *y*)

11.78.3.80 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::swap (Pointset_Powerset_BD_Shape_int64_t *y*)

11.78.3.81 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-int64_t::time_elapse_assign (Pointset_Powerset_BD_Shape_int64_t *p*)

11.78.3.82 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_-t::topological_closure_assign ()

11.78.3.83 native String parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::toString ()

11.78.3.84 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::total_memory_in_bytes ()

11.78.3.85 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::unconstrain_space_dimension (Variable *var*)

11.78.3.86 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::unconstrain_space_dimensions (Variables_Set *vars*)

11.78.3.87 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::upper_bound_assign (Pointset_Powerset_BD_Shape_int64_t *p*)

11.78.3.88 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t::upper_bound_assign_if_exact (Pointset_Powerset_BD_Shape_int64_t *y*)

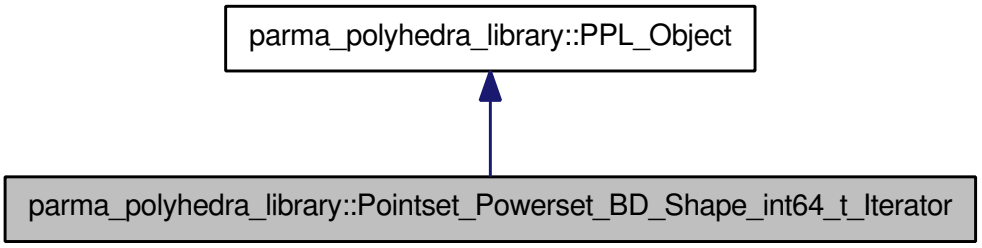
The documentation for this class was generated from the following file:

- Pointset_Powerset_BD_Shape_int64_t.java

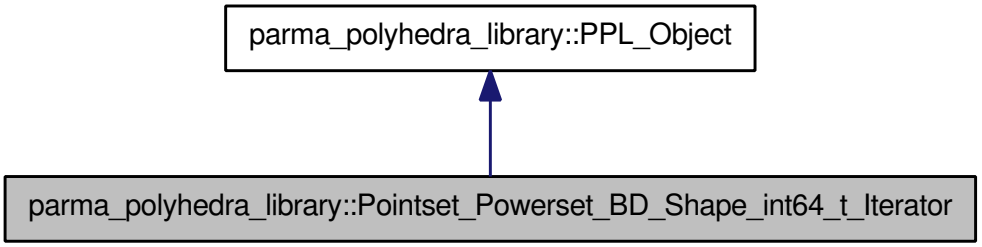
11.79 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int64_t> >:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t_Iterator:



Public Member Functions

- Pointset_Powerset_BD_Shape_int64_t_Iterator (Pointset_Powerset_BD_Shape_int64_t_Iterator y)
- native boolean equals (Pointset_Powerset_BD_Shape_int64_t_Iterator itr)
- native void next ()
- native void prev ()
- native BD_Shape_int64_t get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_BD_Shape_int64_t_Iterator ()
- native void build_ppl_object (Pointset_Powerset_BD_Shape_int64_t obj)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_int64_t_Iterator y)

11.79.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int64_t> >:: iterator.

Definition at line 30 of file Pointset_Powerset_BD_Shape_int64_t_Iterator.java.

11.79.2 Constructor & Destructor Documentation

11.79.2.1 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t_Iterator::Pointset_Powerset_BD_Shape_int64_t_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_BD_Shape_int64_t_Iterator.java.

11.79.2.2 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t_Iterator::Pointset_Powerset_BD_Shape_int64_t_Iterator (Pointset_Powerset_BD_Shape_int64_t_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_BD_Shape_int64_t_Iterator.java.

References build_cpp_object().

11.79.3 Member Function Documentation

11.79.3.1 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t_Iterator::build_cpp_object (Pointset_Powerset_BD_Shape_int64_t_Iterator *y*) [private]

Referenced by Pointset_Powerset_BD_Shape_int64_t_Iterator().

11.79.3.2 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t_Iterator::build_ppl_object (Pointset_Powerset_BD_Shape_int64_t *obj*) [private]

11.79.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t_Iterator::equals (Pointset_Powerset_BD_Shape_int64_t_Iterator *itr*)

11.79.3.4 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t_Iterator::finalize () [protected]

11.79.3.5 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t_Iterator::free ()

11.79.3.6 native BD_Shape_int64_t parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t_Iterator::get_disjunct ()

11.79.3.7 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t_Iterator::next ()

11.79.3.8 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t_Iterator::prev ()

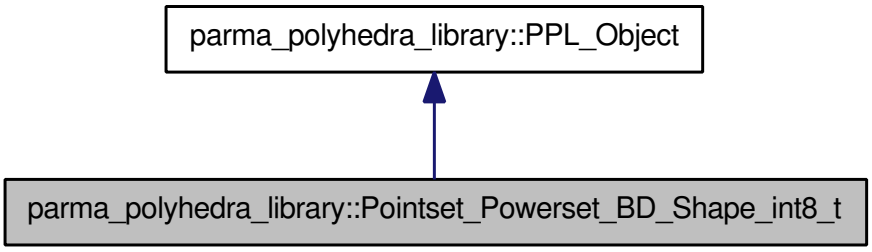
The documentation for this class was generated from the following file:

- Pointset_Powerset_BD_Shape_int64_t_Iterator.java

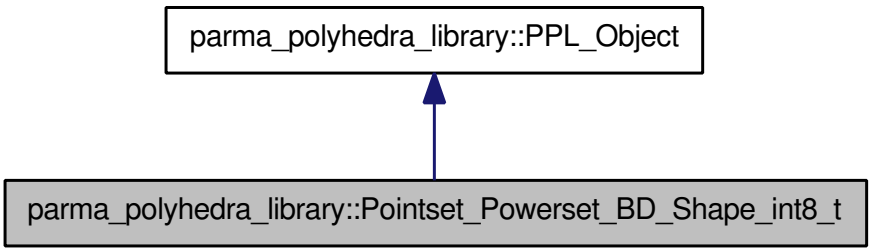
11.80 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int8_t> >

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t:



Public Member Functions

- Pointset_Powerset_BD_Shape_int8_t (long num_dimensions, Degenerate_Element kind)

- Pointset_Powerset_BD_Shape_int8_t (Pointset_Powerset_BD_Shape_int8_t y)
- Pointset_Powerset_BD_Shape_int8_t (BD_Shape_int8_t y)
- Pointset_Powerset_BD_Shape_int8_t (Pointset_Powerset_BD_Shape_int8_t y, Complexity_Class complexity)
- Pointset_Powerset_BD_Shape_int8_t (BD_Shape_int8_t y, Complexity_Class complexity)
- Pointset_Powerset_BD_Shape_int8_t (Constraint_System cs)
- Pointset_Powerset_BD_Shape_int8_t (Congruence_System cs)
- native void swap (Pointset_Powerset_BD_Shape_int8_t y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_BD_Shape_int8_t y)
- native boolean strictly_contains (Pointset_Powerset_BD_Shape_int8_t y)
- native boolean is_disjoint_from (Pointset_Powerset_BD_Shape_int8_t y)
- native boolean geometrically_covers (Pointset_Powerset_BD_Shape_int8_t y)
- native boolean geometrically_equals (Pointset_Powerset_BD_Shape_int8_t y)
- native boolean equals (Pointset_Powerset_BD_Shape_int8_t p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_BD_Shape_int8_t p)
- native void upper_bound_assign (Pointset_Powerset_BD_Shape_int8_t p)

- native void difference_assign (Pointset_Powerset_BD_Shape_int8_t p)
- native void concatenate_assign (Pointset_Powerset_BD_Shape_int8_t p)
- native void time_elapse_assign (Pointset_Powerset_BD_Shape_int8_t p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_BD_Shape_int8_t y)
- native boolean simplify_using_context_assign (Pointset_Powerset_BD_Shape_int8_t p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_BD_Shape_int8_t_Iterator begin_iterator ()
- native Pointset_Powerset_BD_Shape_int8_t_Iterator end_iterator ()
- native void add_disjunct (BD_Shape_int8_t j_disj)
- native void drop_disjunct (Pointset_Powerset_BD_Shape_int8_t_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_BD_Shape_int8_t_Iterator itr1, Pointset_Powerset_BD_Shape_int8_t_Iterator itr2)
- native void BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_BD_Shape_int8_t y)
- native void BHZ03_H79_H79_widening_assign (Pointset_Powerset_BD_Shape_int8_t y)
- native void BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_BD_Shape_int8_t y, Integer d)
- native void BGP99_H79_extrapolation_assign (Pointset_Powerset_BD_Shape_int8_t y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_BD_Shape_int8_t ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_int8_t y)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)

11.80.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int8_t> >

Definition at line 33 of file Pointset_Powerset_BD_Shape_int8_t.java.

11.80.2 Constructor & Destructor Documentation

11.80.2.1 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::Pointset_Powerset_BD_Shape_int8_t (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_BD_Shape_int8_t.java.

References build_cpp_object().

11.80.2.2 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::Pointset_Powerset_BD_Shape_int8_t () [inline, private]

Definition at line 45 of file Pointset_Powerset_BD_Shape_int8_t.java.

11.80.2.3 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::Pointset_Powerset_BD_Shape_int8_t (Pointset_Powerset_BD_Shape_int8_t *y*) [inline]

Definition at line 52 of file Pointset_Powerset_BD_Shape_int8_t.java.

References build_cpp_object().

11.80.2.4 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::Pointset_Powerset_BD_Shape_int8_t (BD_Shape_int8_t *y*) [inline]

Definition at line 56 of file Pointset_Powerset_BD_Shape_int8_t.java.

References build_cpp_object().

11.80.2.5 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::Pointset_Powerset_BD_Shape_int8_t (Pointset_Powerset_BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_BD_Shape_int8_t.java.

References build_cpp_object().

11.80.2.6 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::Pointset_Powerset_BD_Shape_int8_t (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_BD_Shape_int8_t.java.

References build_cpp_object().

11.80.2.7 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::Pointset_Powerset_BD_Shape_int8_t (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_BD_Shape_int8_t.java.

References build_cpp_object().

11.80.2.8 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::Pointset_Powerset_BD_Shape_int8_t (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_BD_Shape_int8_t.java.

References build_cpp_object().

11.80.3 Member Function Documentation

11.80.3.1 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::add_congruence (Congruence *c*)

11.80.3.2 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::add_congruences (Congruence_System *c*)

11.80.3.3 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::add_constraint (Constraint *c*)

11.80.3.4 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::add_constraints (Constraint_System *c*)

11.80.3.5 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::add_disjunct (BD_Shape_int8_t *j_disj*)

11.80.3.6 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::add_space_dimensions_and_embed (long *m*)

11.80.3.7 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::add_space_dimensions_and_project (long *m*)

11.80.3.8 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::affine_dimension ()

11.80.3.9 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.80.3.10 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.80.3.11 native String parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::ascii_dump ()

11.80.3.12 native Pointset_Powerset_BD_Shape_int8_t_Iterator parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::begin_iterator ()

11.80.3.13 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_BD_Shape_int8_t *y*, Integer *d*)

11.80.3.14 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::BGP99_H79_extrapolation_assign (Pointset_Powerset_BD_Shape_int8_t *y*, Integer *d*)

11.80.3.15 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_BD_Shape_int8_t *y*)

11.80.3.16 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::BHZ03_H79_H79_widening_assign (Pointset_Powerset_BD_Shape_int8_t *y*)

11.80.3.17 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.80.3.18 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.80.3.19 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::bounds_from_above (Linear_Expression *expr*)

11.80.3.20 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::bounds_from_below (Linear_Expression *expr*)

11.80.3.21 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.80.3.22 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.80.3.23 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::build_cpp_object (Pointset_Powerset_BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.80.3.24 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::build_cpp_object (Pointset_Powerset_BD_Shape_int8_t *y*) [private]

11.80.3.25 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.80.3.26 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::build_cpp_object (Congruence_System *cs*) [private]

11.80.3.27 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_BD_Shape_int8_t().

11.80.3.28 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::concatenate_assign (Pointset_Powerset_BD_Shape_int8_t *p*)

11.80.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::constrains (Variable *var*)

11.80.3.30 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::contains (Pointset_Powerset_BD_Shape_int8_t *y*)

11.80.3.31 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::contains_integer_point ()

11.80.3.32 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::difference_assign (Pointset_Powerset_BD_Shape_int8_t *p*)

11.80.3.33 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::drop_disjunct (Pointset_Powerset_BD_Shape_int8_t_Iterator *itr*)

11.80.3.34 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::drop_disjuncts (Pointset_Powerset_BD_Shape_int8_t_Iterator *itr1*, Pointset_Powerset_BD_Shape_int8_t_Iterator *itr2*)

11.80.3.35 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::drop_some_non_integer_points (Integer *complexity_threshold*)

11.80.3.36 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.80.3.37 native Pointset_Powerset_BD_Shape_int8_t_Iterator parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::end_iterator ()

11.80.3.38 boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_BD_Shape_int8_t.java.

References equals().

11.80.3.39 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::equals (Pointset_Powerset_BD_Shape_int8_t *p*)

Referenced by equals().

11.80.3.40 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::expand_space_dimension (Variable *var*, long *m*)

11.80.3.41 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::external_memory_in_bytes ()

11.80.3.42 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::finalize () `[protected]`

11.80.3.43 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.80.3.44 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::free ()

11.80.3.45 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.80.3.46 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.80.3.47 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.80.3.48 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.80.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::geometrically_covers (Pointset_Powerset_BD_Shape_int8_t *y*)

11.80.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::geometrically_equals (Pointset_Powerset_BD_Shape_int8_t *y*)

11.80.3.51 native int parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::hashCode ()

11.80.3.52 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::intersection_assign (Pointset_Powerset_BD_Shape_int8_t *p*)

11.80.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::is_bounded ()

11.80.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::is_discrete ()

11.80.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::is_disjoint_from (Pointset_Powerset_BD_Shape_int8_t *y*)

11.80.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::is_empty ()

11.80.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::is_topologically_closed ()

11.80.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::is_universe ()

11.80.3.59 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::map_space_dimensions (Partial_Function *pfunc*)

11.80.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.80.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.80.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.80.3.63 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.80.3.64 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::OK ()

11.80.3.65 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::omega_reduce ()

11.80.3.66 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::pairwise_reduce ()

11.80.3.67 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::refine_with_congruence (Congruence *c*)

11.80.3.68 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::refine_with_congruences (Congruence_System *c*)

11.80.3.69 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::refine_with_constraint (Constraint *c*)

11.80.3.70 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::refine_with_constraints (Constraint_System *c*)

11.80.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::relation_with (Congruence *c*)

11.80.3.72 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::relation_with (Generator *c*)

11.80.3.73 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::relation_with (Constraint *c*)

11.80.3.74 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::remove_higher_space_dimensions (long *new_dimension*)

11.80.3.75 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::remove_space_dimensions (Variables_Set *vars*)

11.80.3.76 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::simplify_using_context_assign (Pointset_Powerset_BD_Shape_int8_t *p*)

11.80.3.77 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::size ()

11.80.3.78 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::space_dimension ()

11.80.3.79 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::strictly_contains (Pointset_Powerset_BD_Shape_int8_t *y*)

11.80.3.80 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::swap (Pointset_Powerset_BD_Shape_int8_t *y*)

11.80.3.81 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::time_elapse_assign (Pointset_Powerset_BD_Shape_int8_t *p*)

11.80.3.82 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::topological_closure_assign ()

11.80.3.83 native String parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::toString ()

11.80.3.84 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::total_memory_in_bytes ()

11.80.3.85 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::unconstrain_space_dimension (Variable *var*)

11.80.3.86 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::unconstrain_space_dimensions (Variables_Set *vars*)

11.80.3.87 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::upper_bound_assign (Pointset_Powerset_BD_Shape_int8_t *p*)

11.80.3.88 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t::upper_bound_assign_if_exact (Pointset_Powerset_BD_Shape_int8_t *y*)

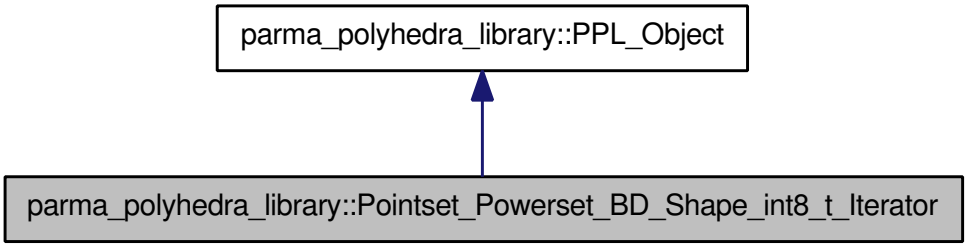
The documentation for this class was generated from the following file:

- Pointset_Powerset_BD_Shape_int8_t.java

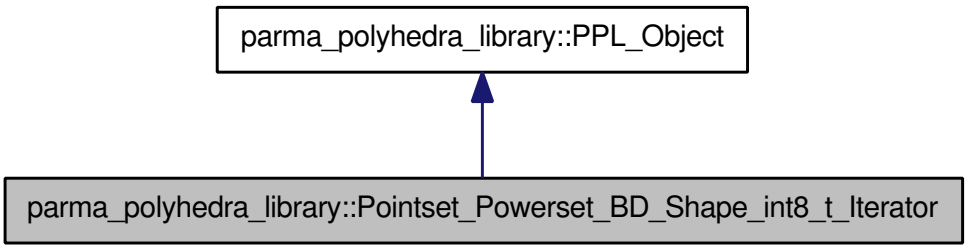
11.81 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int8_t> >:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t_Iterator:



Public Member Functions

- Pointset_Powerset_BD_Shape_int8_t_Iterator (Pointset_Powerset_BD_Shape_int8_t_Iterator y)
- native boolean equals (Pointset_Powerset_BD_Shape_int8_t_Iterator itr)
- native void next ()
- native void prev ()
- native BD_Shape_int8_t get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_BD_Shape_int8_t_Iterator ()
- native void build_ppl_object (Pointset_Powerset_BD_Shape_int8_t obj)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_int8_t_Iterator y)

11.81.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int8_t> >:: iterator.

Definition at line 30 of file Pointset_Powerset_BD_Shape_int8_t_Iterator.java.

11.81.2 Constructor & Destructor Documentation

11.81.2.1 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t_Iterator::Pointset_Powerset_BD_Shape_int8_t_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_BD_Shape_int8_t_Iterator.java.

11.81.2.2 parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t_Iterator::Pointset_Powerset_BD_Shape_int8_t_Iterator (Pointset_Powerset_BD_Shape_int8_t_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_BD_Shape_int8_t_Iterator.java.

References build_cpp_object().

11.81.3 Member Function Documentation

11.81.3.1 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t_Iterator::build_cpp_object (Pointset_Powerset_BD_Shape_int8_t_Iterator *y*) [private]

Referenced by Pointset_Powerset_BD_Shape_int8_t_Iterator().

11.81.3.2 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t_Iterator::build_ppl_object (Pointset_Powerset_BD_Shape_int8_t *obj*) [private]

11.81.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-int8_t_Iterator::equals (Pointset_Powerset_BD_Shape_int8_t_Iterator *itr*)

11.81.3.4 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t_-Iterator::finalize () [protected]

11.81.3.5 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t_-Iterator::free ()

11.81.3.6 native BD_Shape_int8_t parma_polyhedra_library::Pointset_Powerset_BD_Shape_-int8_t_Iterator::get_disjunct ()

11.81.3.7 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t_-Iterator::next ()

11.81.3.8 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t_-Iterator::prev ()

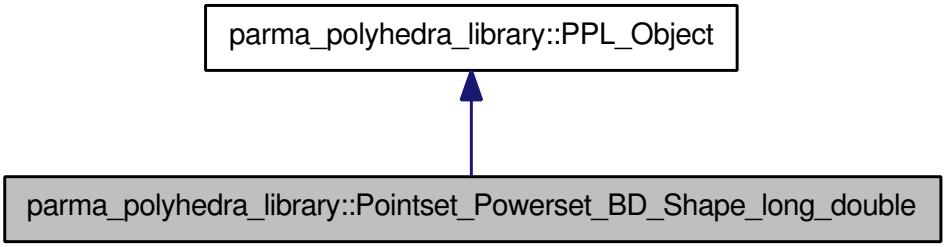
The documentation for this class was generated from the following file:

- Pointset_Powerset_BD_Shape_int8_t_Iterator.java

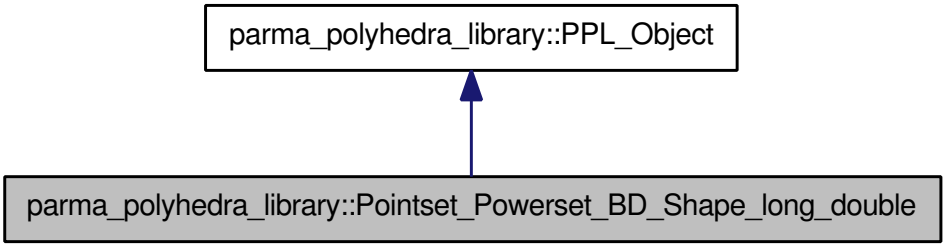
11.82 parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<long double> >

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double:



Public Member Functions

- Pointset_Powerset_BD_Shape_long_double (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_BD_Shape_long_double (Pointset_Powerset_BD_Shape_long_double y)
- Pointset_Powerset_BD_Shape_long_double (BD_Shape_long_double y)
- Pointset_Powerset_BD_Shape_long_double (Pointset_Powerset_BD_Shape_long_double y, Complexity_Class complexity)
- Pointset_Powerset_BD_Shape_long_double (BD_Shape_long_double y, Complexity_Class complexity)
- Pointset_Powerset_BD_Shape_long_double (Constraint_System cs)
- Pointset_Powerset_BD_Shape_long_double (Congruence_System cs)
- native void swap (Pointset_Powerset_BD_Shape_long_double y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)

- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_BD_Shape_long_double y)
- native boolean strictly_contains (Pointset_Powerset_BD_Shape_long_double y)
- native boolean is_disjoint_from (Pointset_Powerset_BD_Shape_long_double y)
- native boolean geometrically_covers (Pointset_Powerset_BD_Shape_long_double y)
- native boolean geometrically_equals (Pointset_Powerset_BD_Shape_long_double y)
- native boolean equals (Pointset_Powerset_BD_Shape_long_double p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_BD_Shape_long_double p)
- native void upper_bound_assign (Pointset_Powerset_BD_Shape_long_double p)
- native void difference_assign (Pointset_Powerset_BD_Shape_long_double p)
- native void concatenate_assign (Pointset_Powerset_BD_Shape_long_double p)
- native void time_elapse_assign (Pointset_Powerset_BD_Shape_long_double p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_BD_Shape_long_double y)
- native boolean simplify_using_context_assign (Pointset_Powerset_BD_Shape_long_double p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)

- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_BD_Shape_long_double_Iterator begin_iterator ()
- native Pointset_Powerset_BD_Shape_long_double_Iterator end_iterator ()
- native void add_disjunct (BD_Shape_long_double j_disj)
- native void drop_disjunct (Pointset_Powerset_BD_Shape_long_double_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_BD_Shape_long_double_Iterator itr1, Pointset_Powerset_BD_Shape_long_double_Iterator itr2)
- native void BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_BD_Shape_long_double y)
- native void BHZ03_H79_H79_widening_assign (Pointset_Powerset_BD_Shape_long_double y)
- native void BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_BD_Shape_long_double y, Integer d)
- native void BGP99_H79_extrapolation_assign (Pointset_Powerset_BD_Shape_long_double y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_BD_Shape_long_double ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_long_double y)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)

11.82.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<long double> >

Definition at line 33 of file Pointset_Powerset_BD_Shape_long_double.java.

11.82.2 Constructor & Destructor Documentation

11.82.2.1 parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::Pointset_Powerset_BD_Shape_long_double (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_BD_Shape_long_double.java.

References build_cpp_object().

11.82.2.2 parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::Pointset_Powerset_BD_Shape_long_double () [inline, private]

Definition at line 45 of file Pointset_Powerset_BD_Shape_long_double.java.

11.82.2.3 parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::Pointset_Powerset_BD_Shape_long_double (Pointset_Powerset_BD_Shape_long_double *y*) [inline]

Definition at line 52 of file Pointset_Powerset_BD_Shape_long_double.java.

References build_cpp_object().

11.82.2.4 parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::Pointset_Powerset_BD_Shape_long_double (BD_Shape_long_double *y*) [inline]

Definition at line 56 of file Pointset_Powerset_BD_Shape_long_double.java.

References build_cpp_object().

11.82.2.5 parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::Pointset_Powerset_BD_Shape_long_double (Pointset_Powerset_BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_BD_Shape_long_double.java.

References build_cpp_object().

11.82.2.6 parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::Pointset_Powerset_BD_Shape_long_double (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_BD_Shape_long_double.java.

References build_cpp_object().

11.82.2.7 parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::Pointset_Powerset_BD_Shape_long_double (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_BD_Shape_long_double.java.

References build_cpp_object().

11.82.2.8 parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::Pointset_Powerset_BD_Shape_long_double (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_BD_Shape_long_double.java.

References build_cpp_object().

11.82.3 Member Function Documentation

11.82.3.1 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::add_congruence (Congruence *c*)

11.82.3.2 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::add_congruences (Congruence_System *c*)

11.82.3.3 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::add_constraint (Constraint *c*)

11.82.3.4 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::add_constraints (Constraint_System *c*)

11.82.3.5 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::add_disjunct (BD_Shape_long_double *j_disj*)

11.82.3.6 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::add_space_dimensions_and_embed (long *m*)

11.82.3.7 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::add_space_dimensions_and_project (long *m*)

11.82.3.8 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::affine_dimension ()

11.82.3.9 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.82.3.10 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.82.3.11 native String parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::ascii_dump ()

11.82.3.12 native Pointset_Powerset_BD_Shape_long_double_Iterator parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::begin_iterator ()

11.82.3.13 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_BD_Shape_long_double *y*, Integer *d*)

11.82.3.14 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::BGP99_H79_extrapolation_assign (Pointset_Powerset_BD_Shape_long_double *y*, Integer *d*)

11.82.3.15 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_BD_Shape_long_double *y*)

11.82.3.16 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::BHZ03_H79_H79_widening_assign (Pointset_Powerset_BD_Shape_long_double *y*)

11.82.3.17 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.82.3.18 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.82.3.19 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::bounds_from_above (Linear_Expression *expr*)

11.82.3.20 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::bounds_from_below (Linear_Expression *expr*)

11.82.3.21 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.82.3.22 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_long_double::build_cpp_object (BD_Shape_long_double *y*) [private]

11.82.3.23 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::build_cpp_object (Pointset_Powerset_BD_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.82.3.24 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::build_cpp_object (Pointset_Powerset_BD_Shape_long_double *y*) [private]

11.82.3.25 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.82.3.26 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_long_double::build_cpp_object (Congruence_System *cs*) [private]

11.82.3.27 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_long_double::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_BD_Shape_long_double().

11.82.3.28 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::concatenate_assign (Pointset_Powerset_BD_Shape_long_double *p*)

11.82.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::constrains (Variable *var*)

11.82.3.30 native boolean parma_polyhedra_library::Pointset_Powerset_BD_-Shape_long_double::contains (Pointset_Powerset_BD_Shape_long_double *y*)

11.82.3.31 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::contains_integer_point ()

11.82.3.32 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-long_double::difference_assign (Pointset_Powerset_BD_Shape_long_double *p*)

11.82.3.33 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::drop_disjunct (Pointset_Powerset_BD_Shape_long_double_Iterator *itr*)

11.82.3.34 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::drop_disjuncts (Pointset_Powerset_BD_Shape_long_double_Iterator *itr1*, Pointset_Powerset_BD_Shape_long_double_Iterator *itr2*)

11.82.3.35 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_long_double::drop_some_non_integer_points (Integer *complexity_threshold*)

11.82.3.36 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.82.3.37 native Pointset_Powerset_BD_Shape_long_double_Iterator parma_-polyhedra_library::Pointset_Powerset_BD_Shape_long_double::end_iterator ()

11.82.3.38 boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::equals (Object *y*) [inline]

Definition at line 190 of file Pointset_Powerset_BD_Shape_long_double.java.

References equals().

11.82.3.39 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::equals (Pointset_Powerset_BD_Shape_long_double *p*)

Referenced by equals().

11.82.3.40 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::expand_space_dimension (Variable *var*, long *m*)

11.82.3.41 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::external_memory_in_bytes ()

11.82.3.42 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::finalize () [protected]

11.82.3.43 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.82.3.44 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::free ()

11.82.3.45 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.82.3.46 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.82.3.47 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.82.3.48 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.82.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-long_double::geometrically_covers (Pointset_Powerset_BD_Shape_long_double *y*)

11.82.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-long_double::geometrically_equals (Pointset_Powerset_BD_Shape_long_double *y*)

11.82.3.51 native int parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::hashCode ()

11.82.3.52 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::intersection_assign (Pointset_Powerset_BD_Shape_long_double *p*)

11.82.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::is_bounded ()

11.82.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::is_discrete ()

11.82.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::is_disjoint_from (Pointset_Powerset_BD_Shape_long_double *y*)

11.82.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::is_empty ()

11.82.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::is_topologically_closed ()

11.82.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::is_universe ()

11.82.3.59 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::map_space_dimensions (Partial_Function *pfunc*)

11.82.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.82.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.82.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.82.3.63 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.82.3.64 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::OK ()

11.82.3.65 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::omega_reduce ()

11.82.3.66 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::pairwise_reduce ()

11.82.3.67 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::refine_with_congruence (Congruence *c*)

11.82.3.68 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_long_double::refine_with_congruences (Congruence_System *c*)

11.82.3.69 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::refine_with_constraint (Constraint *c*)

11.82.3.70 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_long_double::refine_with_constraints (Constraint_System *c*)

11.82.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::relation_with (Congruence *c*)

11.82.3.72 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::relation_with (Generator *c*)

11.82.3.73 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::relation_with (Constraint *c*)

11.82.3.74 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::remove_higher_space_dimensions (long *new_dimension*)

11.82.3.75 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::remove_space_dimensions (Variables_Set *vars*)

11.82.3.76 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::simplify_using_context_assign (Pointset_Powerset_BD_Shape_long_double *p*)

11.82.3.77 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::size ()

11.82.3.78 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::space_dimension ()

11.82.3.79 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-long_double::strictly_contains (Pointset_Powerset_BD_Shape_long_double *y*)

11.82.3.80 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_long_double::swap (Pointset_Powerset_BD_Shape_long_double *y*)

11.82.3.81 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::time_elapse_assign (Pointset_Powerset_BD_Shape_long_double *p*)

11.82.3.82 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::topological_closure_assign ()

11.82.3.83 native String parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::toString ()

11.82.3.84 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double::total_memory_in_bytes ()

11.82.3.85 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_long_double::unconstrain_space_dimension (Variable *var*)

11.82.3.86 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_long_double::unconstrain_space_dimensions (Variables_Set *vars*)

11.82.3.87 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::upper_bound_assign (Pointset_Powerset_BD_Shape_long_double *p*)

11.82.3.88 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double::upper_bound_assign_if_exact (Pointset_Powerset_BD_Shape_long_double *y*)

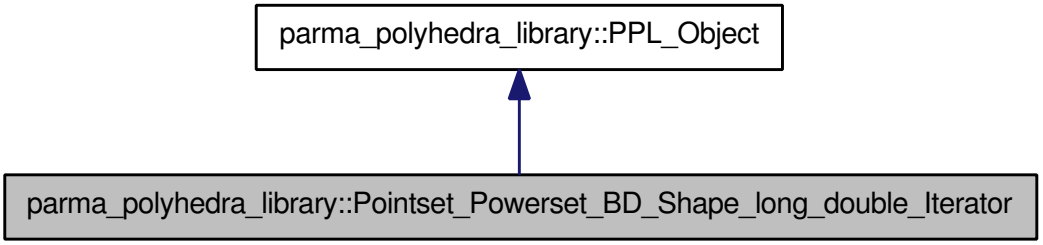
The documentation for this class was generated from the following file:

- Pointset_Powerset_BD_Shape_long_double.java

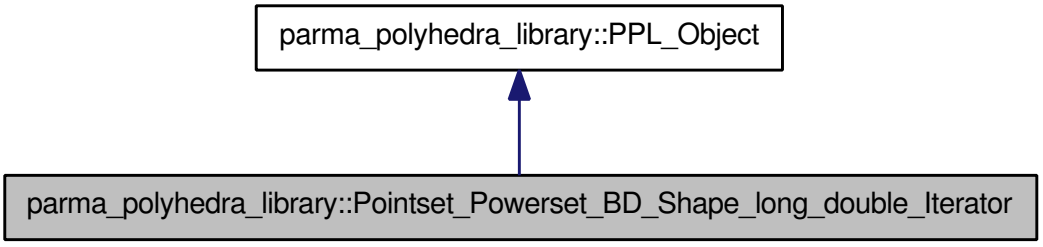
11.83 parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<long double> >::iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double_Iterator:



Public Member Functions

- Pointset_Powerset_BD_Shape_long_double_Iterator (Pointset_Powerset_BD_Shape_long_double_Iterator y)
- native boolean equals (Pointset_Powerset_BD_Shape_long_double_Iterator itr)

- native void next ()
- native void prev ()
- native BD_Shape_long_double get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_BD_Shape_long_double_Iterator ()
- native void build_ppl_object (Pointset_Powerset_BD_Shape_long_double obj)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_long_double_Iterator y)

11.83.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<long double> >:: iterator.

Definition at line 30 of file Pointset_Powerset_BD_Shape_long_double_Iterator.java.

11.83.2 Constructor & Destructor Documentation

11.83.2.1 parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double_-Iterator::Pointset_Powerset_BD_Shape_long_double_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_BD_Shape_long_double_Iterator.java.

11.83.2.2 parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_-double_Iterator::Pointset_Powerset_BD_Shape_long_double_Iterator (Pointset_Powerset_BD_Shape_long_double_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_BD_Shape_long_double_Iterator.java.

References build_cpp_object().

11.83.3 Member Function Documentation

11.83.3.1 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double_-Iterator::build_cpp_object (Pointset_Powerset_BD_Shape_long_double_Iterator *y*) [private]

Referenced by Pointset_Powerset_BD_Shape_long_double_Iterator().

11.83.3.2 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double_Iterator::build_ppl_object (Pointset_Powerset_BD_Shape_long_double *obj*) [private]

11.83.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double_Iterator::equals (Pointset_Powerset_BD_Shape_long_double_Iterator *itr*)

11.83.3.4 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double_Iterator::finalize () [protected]

11.83.3.5 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double_Iterator::free ()

11.83.3.6 native BD_Shape_long_double parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double_Iterator::get_disjunct ()

11.83.3.7 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double_Iterator::next ()

11.83.3.8 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double_Iterator::prev ()

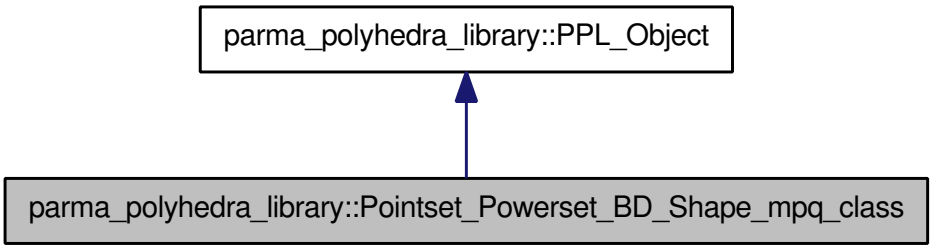
The documentation for this class was generated from the following file:

- Pointset_Powerset_BD_Shape_long_double_Iterator.java

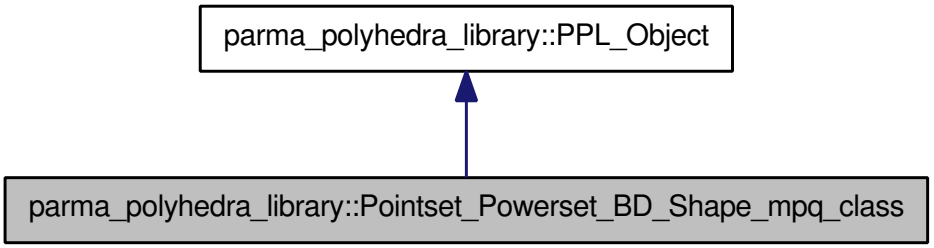
11.84 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<mpq_class> >

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class:



Public Member Functions

- Pointset_Powerset_BD_Shape_mpq_class (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_BD_Shape_mpq_class (Pointset_Powerset_BD_Shape_mpq_class y)
- Pointset_Powerset_BD_Shape_mpq_class (BD_Shape_mpq_class y)
- Pointset_Powerset_BD_Shape_mpq_class (Pointset_Powerset_BD_Shape_mpq_class y, Complexity_Class complexity)
- Pointset_Powerset_BD_Shape_mpq_class (BD_Shape_mpq_class y, Complexity_Class complexity)
- Pointset_Powerset_BD_Shape_mpq_class (Constraint_System cs)
- Pointset_Powerset_BD_Shape_mpq_class (Congruence_System cs)
- native void swap (Pointset_Powerset_BD_Shape_mpq_class y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)

- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_BD_Shape_mpq_class y)
- native boolean strictly_contains (Pointset_Powerset_BD_Shape_mpq_class y)
- native boolean is_disjoint_from (Pointset_Powerset_BD_Shape_mpq_class y)
- native boolean geometrically_covers (Pointset_Powerset_BD_Shape_mpq_class y)
- native boolean geometrically_equals (Pointset_Powerset_BD_Shape_mpq_class y)
- native boolean equals (Pointset_Powerset_BD_Shape_mpq_class p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_BD_Shape_mpq_class p)
- native void upper_bound_assign (Pointset_Powerset_BD_Shape_mpq_class p)
- native void difference_assign (Pointset_Powerset_BD_Shape_mpq_class p)
- native void concatenate_assign (Pointset_Powerset_BD_Shape_mpq_class p)
- native void time_elapse_assign (Pointset_Powerset_BD_Shape_mpq_class p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_BD_Shape_mpq_class y)
- native boolean simplify_using_context_assign (Pointset_Powerset_BD_Shape_mpq_class p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)

- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_BD_Shape_mpq_class_Iterator begin_iterator ()
- native Pointset_Powerset_BD_Shape_mpq_class_Iterator end_iterator ()
- native void add_disjunct (BD_Shape_mpq_class j_disj)
- native void drop_disjunct (Pointset_Powerset_BD_Shape_mpq_class_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_BD_Shape_mpq_class_Iterator itr1, Pointset_Powerset_BD_Shape_mpq_class_Iterator itr2)
- native void BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_BD_Shape_mpq_class y)
- native void BHZ03_H79_H79_widening_assign (Pointset_Powerset_BD_Shape_mpq_class y)
- native void BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_BD_Shape_mpq_class y, Integer d)
- native void BGP99_H79_extrapolation_assign (Pointset_Powerset_BD_Shape_mpq_class y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_BD_Shape_mpq_class ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_mpq_class y)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)

11.84.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<mpq_class> >

Definition at line 33 of file Pointset_Powerset_BD_Shape_mpq_class.java.

11.84.2 Constructor & Destructor Documentation

11.84.2.1 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::Pointset_Powerset_BD_Shape_mpq_class (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_BD_Shape_mpq_class.java.

References build_cpp_object().

11.84.2.2 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::Pointset_Powerset_BD_Shape_mpq_class () [inline, private]

Definition at line 45 of file Pointset_Powerset_BD_Shape_mpq_class.java.

11.84.2.3 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::Pointset_Powerset_BD_Shape_mpq_class (Pointset_Powerset_BD_Shape_mpq_class *y*) [inline]

Definition at line 52 of file Pointset_Powerset_BD_Shape_mpq_class.java.

References build_cpp_object().

11.84.2.4 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::Pointset_Powerset_BD_Shape_mpq_class (BD_Shape_mpq_class *y*) [inline]

Definition at line 56 of file Pointset_Powerset_BD_Shape_mpq_class.java.

References build_cpp_object().

11.84.2.5 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::Pointset_Powerset_BD_Shape_mpq_class (Pointset_Powerset_BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_BD_Shape_mpq_class.java.

References build_cpp_object().

11.84.2.6 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::Pointset_Powerset_BD_Shape_mpq_class (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_BD_Shape_mpq_class.java.

References build_cpp_object().

11.84.2.7 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::Pointset_Powerset_BD_Shape_mpq_class (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_BD_Shape_mpq_class.java.

References build_cpp_object().

11.84.2.8 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::Pointset_Powerset_BD_Shape_mpq_class (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_BD_Shape_mpq_class.java.

References build_cpp_object().

11.84.3 Member Function Documentation

11.84.3.1 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::add_congruence (Congruence *c*)

11.84.3.2 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::add_congruences (Congruence_System *c*)

11.84.3.3 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::add_constraint (Constraint *c*)

11.84.3.4 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::add_constraints (Constraint_System *c*)

11.84.3.5 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::add_disjunct (BD_Shape_mpq_class *j_disj*)

11.84.3.6 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::add_space_dimensions_and_embed (long *m*)

11.84.3.7 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::add_space_dimensions_and_project (long *m*)

11.84.3.8 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::affine_dimension ()

11.84.3.9 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.84.3.10 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.84.3.11 native String parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::ascii_dump ()

11.84.3.12 native Pointset_Powerset_BD_Shape_mpq_class_Iterator parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::begin_iterator ()

11.84.3.13 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_BD_Shape_mpq_class *y*, Integer *d*)

11.84.3.14 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::BGP99_H79_extrapolation_assign (Pointset_Powerset_BD_Shape_mpq_class *y*, Integer *d*)

11.84.3.15 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_mpq_class::BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_BD_Shape_mpq_class *y*)

11.84.3.16 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::BHZ03_H79_H79_widening_assign (Pointset_Powerset_BD_Shape_mpq_class *y*)

11.84.3.17 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.84.3.18 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.84.3.19 native boolean parma_polyhedra_library::Pointset_Powerset_-BD_Shape_mpq_class::bounds_from_above (Linear_Expression *expr*)

11.84.3.20 native boolean parma_polyhedra_library::Pointset_Powerset_-BD_Shape_mpq_class::bounds_from_below (Linear_Expression *expr*)

11.84.3.21 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) `[private]`

11.84.3.22 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.84.3.23 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::build_cpp_object (Pointset_Powerset_BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.84.3.24 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::build_cpp_object (Pointset_Powerset_BD_Shape_mpq_class *y*) [private]

11.84.3.25 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.84.3.26 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::build_cpp_object (Congruence_System *cs*) [private]

11.84.3.27 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_BD_Shape_mpq_class().

11.84.3.28 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::concatenate_assign (Pointset_Powerset_BD_Shape_mpq_class *p*)

11.84.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::constrains (Variable *var*)

11.84.3.30 native boolean parma_polyhedra_library::Pointset_Powerset_BD_-Shape_mpq_class::contains (Pointset_Powerset_BD_Shape_mpq_class *y*)

11.84.3.31 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::contains_integer_point ()

11.84.3.32 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-mpq_class::difference_assign (Pointset_Powerset_BD_Shape_mpq_class *p*)

11.84.3.33 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::drop_disjunct (Pointset_Powerset_BD_Shape_mpq_class_Iterator *itr*)

11.84.3.34 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::drop_disjuncts (Pointset_Powerset_BD_Shape_mpq_class_Iterator *itr1*, Pointset_Powerset_BD_Shape_mpq_class_Iterator *itr2*)

11.84.3.35 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::drop_some_non_integer_points (Integer *complexity_threshold*)

11.84.3.36 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-mpq_class::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.84.3.37 native Pointset_Powerset_BD_Shape_mpq_class_Iterator parma_-polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::end_iterator ()

11.84.3.38 boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::equals (Object *y*) [inline]

Definition at line 190 of file Pointset_Powerset_BD_Shape_mpq_class.java.

References equals().

11.84.3.39 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::equals (Pointset_Powerset_BD_Shape_mpq_class *p*)

Referenced by equals().

11.84.3.40 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::expand_space_dimension (Variable *var*, long *m*)

11.84.3.41 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::external_memory_in_bytes ()

11.84.3.42 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::finalize () [protected]

11.84.3.43 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.84.3.44 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::free ()

11.84.3.45 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.84.3.46 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.84.3.47 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.84.3.48 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.84.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::geometrically_covers (Pointset_Powerset_BD_Shape_mpq_class *y*)

11.84.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::geometrically_equals (Pointset_Powerset_BD_Shape_mpq_class *y*)

11.84.3.51 native int parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::hashCode ()

11.84.3.52 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::intersection_assign (Pointset_Powerset_BD_Shape_mpq_class *p*)

11.84.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::is_bounded ()

11.84.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::is_discrete ()

11.84.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::is_disjoint_from (Pointset_Powerset_BD_Shape_mpq_class *y*)

11.84.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::is_empty ()

11.84.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::is_topologically_closed ()

11.84.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::is_universe ()

11.84.3.59 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::map_space_dimensions (Partial_Function *pfunc*)

11.84.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.84.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.84.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.84.3.63 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.84.3.64 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::OK ()

11.84.3.65 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::omega_reduce ()

11.84.3.66 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::pairwise_reduce ()

11.84.3.67 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::refine_with_congruence (Congruence *c*)

11.84.3.68 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_mpq_class::refine_with_congruences (Congruence_System *c*)

11.84.3.69 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::refine_with_constraint (Constraint *c*)

11.84.3.70 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_mpq_class::refine_with_constraints (Constraint_System *c*)

11.84.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::relation_with (Congruence *c*)

11.84.3.72 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::relation_with (Generator *c*)

11.84.3.73 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::relation_with (Constraint *c*)

11.84.3.74 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::remove_higher_space_dimensions (long *new_dimension*)

11.84.3.75 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::remove_space_dimensions (Variables_Set *vars*)

11.84.3.76 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::simplify_using_context_assign (Pointset_Powerset_BD_Shape_mpq_class *p*)

11.84.3.77 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::size ()

11.84.3.78 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::space_dimension ()

11.84.3.79 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::strictly_contains (Pointset_Powerset_BD_Shape_mpq_class *y*)

11.84.3.80 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class::swap (Pointset_Powerset_BD_Shape_mpq_class *y*)

11.84.3.81 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-mpq_class::time_elapse_assign (Pointset_Powerset_BD_Shape_mpq_class *p*)

11.84.3.82 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::topological_closure_assign ()

11.84.3.83 native String parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::toString ()

11.84.3.84 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::total_memory_in_bytes ()

11.84.3.85 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::unconstrain_space_dimension (Variable *var*)

11.84.3.86 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_mpq_class::unconstrain_space_dimensions (Variables_Set *vars*)

11.84.3.87 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-mpq_class::upper_bound_assign (Pointset_Powerset_BD_Shape_mpq_class *p*)

11.84.3.88 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class::upper_bound_assign_if_exact (Pointset_Powerset_BD_Shape_mpq_class *y*)

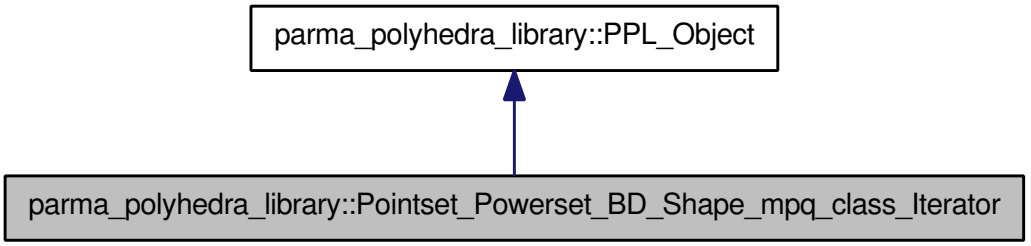
The documentation for this class was generated from the following file:

- Pointset_Powerset_BD_Shape_mpq_class.java

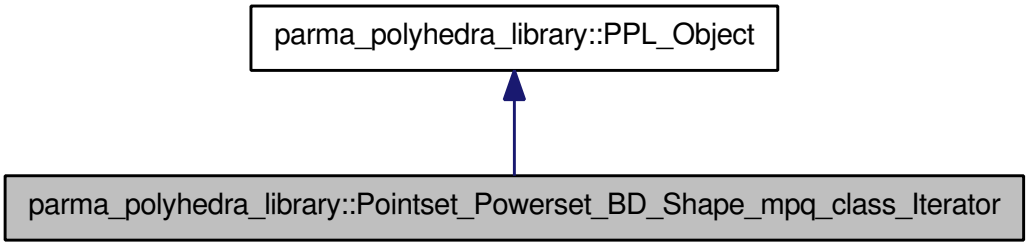
11.85 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class_-Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<mpq_class> >:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class_Iterator:



Public Member Functions

- Pointset_Powerset_BD_Shape_mpq_class_Iterator (Pointset_Powerset_BD_Shape_mpq_class_-Iterator y)
- native boolean equals (Pointset_Powerset_BD_Shape_mpq_class_Iterator itr)
- native void next ()
- native void prev ()
- native BD_Shape_mpq_class get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_BD_Shape_mpq_class_Iterator ()
- native void build_ppl_object (Pointset_Powerset_BD_Shape_mpq_class obj)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_mpq_class_Iterator y)

11.85.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<mpq_class> >:: iterator.

Definition at line 30 of file Pointset_Powerset_BD_Shape_mpq_class_Iterator.java.

11.85.2 Constructor & Destructor Documentation

11.85.2.1 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class_-Iterator::Pointset_Powerset_BD_Shape_mpq_class_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_BD_Shape_mpq_class_Iterator.java.

11.85.2.2 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class_Iterator::Pointset_Powerset_BD_Shape_mpq_class_Iterator (Pointset_Powerset_BD_Shape_mpq_class_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_BD_Shape_mpq_class_Iterator.java.

References build_cpp_object().

11.85.3 Member Function Documentation

11.85.3.1 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class_-Iterator::build_cpp_object (Pointset_Powerset_BD_Shape_mpq_class_Iterator *y*) [private]

Referenced by Pointset_Powerset_BD_Shape_mpq_class_Iterator().

11.85.3.2 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_-class_Iterator::build_ppl_object (Pointset_Powerset_BD_Shape_mpq_class *obj*) [private]

11.85.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-mpq_class_Iterator::equals (Pointset_Powerset_BD_Shape_mpq_class_Iterator *itr*)

11.85.3.4 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class_-Iterator::finalize () [protected]

11.85.3.5 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class_-Iterator::free ()

11.85.3.6 native BD_Shape_mpq_class parma_polyhedra_library::Pointset_Powerset_BD_-Shape_mpq_class_Iterator::get_disjunct ()

11.85.3.7 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class_-Iterator::next ()

11.85.3.8 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class_-Iterator::prev ()

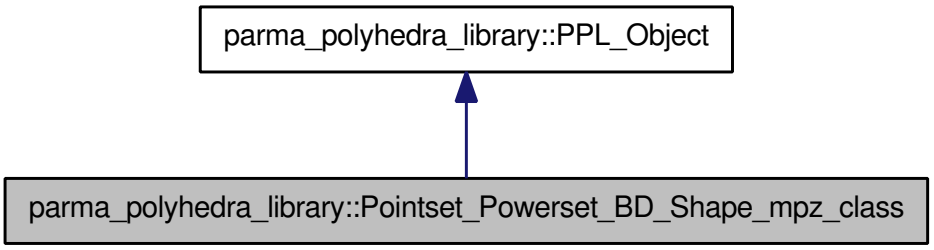
The documentation for this class was generated from the following file:

- Pointset_Powerset_BD_Shape_mpq_class_Iterator.java

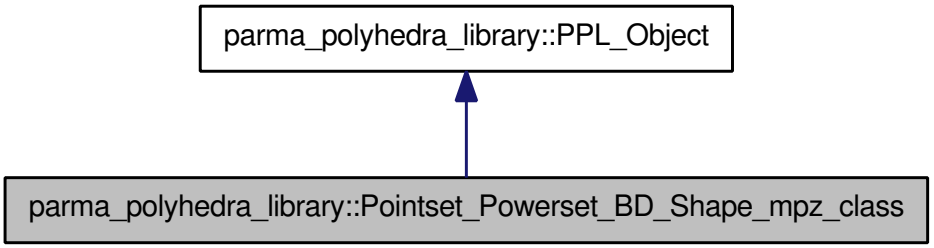
11.86 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<mpz_class> >

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class:



Public Member Functions

- Pointset_Powerset_BD_Shape_mpz_class (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_BD_Shape_mpz_class (Pointset_Powerset_BD_Shape_mpz_class y)
- Pointset_Powerset_BD_Shape_mpz_class (BD_Shape_mpz_class y)
- Pointset_Powerset_BD_Shape_mpz_class (Pointset_Powerset_BD_Shape_mpz_class y, Complexity_Class complexity)
- Pointset_Powerset_BD_Shape_mpz_class (BD_Shape_mpz_class y, Complexity_Class complexity)
- Pointset_Powerset_BD_Shape_mpz_class (Constraint_System cs)
- Pointset_Powerset_BD_Shape_mpz_class (Congruence_System cs)
- native void swap (Pointset_Powerset_BD_Shape_mpz_class y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)

- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_BD_Shape_mpz_class y)
- native boolean strictly_contains (Pointset_Powerset_BD_Shape_mpz_class y)
- native boolean is_disjoint_from (Pointset_Powerset_BD_Shape_mpz_class y)
- native boolean geometrically_covers (Pointset_Powerset_BD_Shape_mpz_class y)
- native boolean geometrically_equals (Pointset_Powerset_BD_Shape_mpz_class y)
- native boolean equals (Pointset_Powerset_BD_Shape_mpz_class p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_BD_Shape_mpz_class p)
- native void upper_bound_assign (Pointset_Powerset_BD_Shape_mpz_class p)
- native void difference_assign (Pointset_Powerset_BD_Shape_mpz_class p)
- native void concatenate_assign (Pointset_Powerset_BD_Shape_mpz_class p)
- native void time_elapse_assign (Pointset_Powerset_BD_Shape_mpz_class p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_BD_Shape_mpz_class y)
- native boolean simplify_using_context_assign (Pointset_Powerset_BD_Shape_mpz_class p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)

- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_BD_Shape_mpz_class_Iterator begin_iterator ()
- native Pointset_Powerset_BD_Shape_mpz_class_Iterator end_iterator ()
- native void add_disjunct (BD_Shape_mpz_class j_disj)
- native void drop_disjunct (Pointset_Powerset_BD_Shape_mpz_class_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_BD_Shape_mpz_class_Iterator itr1, Pointset_Powerset_BD_Shape_mpz_class_Iterator itr2)
- native void BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_BD_Shape_mpz_class y)
- native void BHZ03_H79_H79_widening_assign (Pointset_Powerset_BD_Shape_mpz_class y)
- native void BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_BD_Shape_mpz_class y, Integer d)
- native void BGP99_H79_extrapolation_assign (Pointset_Powerset_BD_Shape_mpz_class y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_BD_Shape_mpz_class ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_mpz_class y)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)

11.86.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<mpz_class> >

Definition at line 33 of file Pointset_Powerset_BD_Shape_mpz_class.java.

11.86.2 Constructor & Destructor Documentation

11.86.2.1 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::Pointset_Powerset_BD_Shape_mpz_class (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_BD_Shape_mpz_class.java.

References build_cpp_object().

11.86.2.2 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::Pointset_Powerset_BD_Shape_mpz_class () [inline, private]

Definition at line 45 of file Pointset_Powerset_BD_Shape_mpz_class.java.

11.86.2.3 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::Pointset_Powerset_BD_Shape_mpz_class (Pointset_Powerset_BD_Shape_mpz_class *y*) [inline]

Definition at line 52 of file Pointset_Powerset_BD_Shape_mpz_class.java.

References build_cpp_object().

11.86.2.4 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::Pointset_Powerset_BD_Shape_mpz_class (BD_Shape_mpz_class *y*) [inline]

Definition at line 56 of file Pointset_Powerset_BD_Shape_mpz_class.java.

References build_cpp_object().

11.86.2.5 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::Pointset_Powerset_BD_Shape_mpz_class (Pointset_Powerset_BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_BD_Shape_mpz_class.java.

References build_cpp_object().

11.86.2.6 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::Pointset_Powerset_BD_Shape_mpz_class (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_BD_Shape_mpz_class.java.

References build_cpp_object().

11.86.2.7 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::Pointset_Powerset_BD_Shape_mpz_class (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_BD_Shape_mpz_class.java.

References build_cpp_object().

11.86.2.8 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::Pointset_Powerset_BD_Shape_mpz_class (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_BD_Shape_mpz_class.java.

References build_cpp_object().

11.86.3 Member Function Documentation

11.86.3.1 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::add_congruence (Congruence *c*)

11.86.3.2 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::add_congruences (Congruence_System *c*)

11.86.3.3 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::add_constraint (Constraint *c*)

11.86.3.4 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::add_constraints (Constraint_System *c*)

11.86.3.5 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::add_disjunct (BD_Shape_mpz_class *j_disj*)

11.86.3.6 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::add_space_dimensions_and_embed (long *m*)

11.86.3.7 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::add_space_dimensions_and_project (long *m*)

11.86.3.8 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::affine_dimension ()

11.86.3.9 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.86.3.10 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.86.3.11 native String parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::ascii_dump ()

11.86.3.12 native Pointset_Powerset_BD_Shape_mpz_class_Iterator parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::begin_iterator ()

11.86.3.13 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_BD_Shape_mpz_class *y*, Integer *d*)

11.86.3.14 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::BGP99_H79_extrapolation_assign (Pointset_Powerset_BD_Shape_mpz_class *y*, Integer *d*)

11.86.3.15 native void parma_polyhedra_library::Pointset_Powerset_-BD_Shape_mpz_class::BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_BD_Shape_mpz_class *y*)

11.86.3.16 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::BHZ03_H79_H79_widening_assign (Pointset_Powerset_BD_Shape_mpz_class *y*)

11.86.3.17 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.86.3.18 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.86.3.19 native boolean parma_polyhedra_library::Pointset_Powerset_-BD_Shape_mpz_class::bounds_from_above (Linear_Expression *expr*)

11.86.3.20 native boolean parma_polyhedra_library::Pointset_Powerset_-BD_Shape_mpz_class::bounds_from_below (Linear_Expression *expr*)

11.86.3.21 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) `[private]`

11.86.3.22 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.86.3.23 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::build_cpp_object (Pointset_Powerset_BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.86.3.24 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::build_cpp_object (Pointset_Powerset_BD_Shape_mpz_class *y*) [private]

11.86.3.25 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.86.3.26 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::build_cpp_object (Congruence_System *cs*) [private]

11.86.3.27 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_BD_Shape_mpz_class().

11.86.3.28 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::concatenate_assign (Pointset_Powerset_BD_Shape_mpz_class *p*)

11.86.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::constrains (Variable *var*)

11.86.3.30 native boolean parma_polyhedra_library::Pointset_Powerset_BD_-Shape_mpz_class::contains (Pointset_Powerset_BD_Shape_mpz_class *y*)

11.86.3.31 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::contains_integer_point ()

11.86.3.32 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-mpz_class::difference_assign (Pointset_Powerset_BD_Shape_mpz_class *p*)

11.86.3.33 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::drop_disjunct (Pointset_Powerset_BD_Shape_mpz_class_Iterator *itr*)

11.86.3.34 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::drop_disjuncts (Pointset_Powerset_BD_Shape_mpz_class_Iterator *itr1*, Pointset_Powerset_BD_Shape_mpz_class_Iterator *itr2*)

11.86.3.35 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::drop_some_non_integer_points (Integer *complexity_threshold*)

11.86.3.36 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-mpz_class::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.86.3.37 native Pointset_Powerset_BD_Shape_mpz_class_Iterator parma_-polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::end_iterator ()

11.86.3.38 boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::equals (Object *y*) [inline]

Definition at line 190 of file Pointset_Powerset_BD_Shape_mpz_class.java.

References equals().

11.86.3.39 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::equals (Pointset_Powerset_BD_Shape_mpz_class *p*)

Referenced by equals().

11.86.3.40 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::expand_space_dimension (Variable *var*, long *m*)

11.86.3.41 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::external_memory_in_bytes ()

11.86.3.42 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::finalize () [protected]

11.86.3.43 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.86.3.44 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::free ()

11.86.3.45 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.86.3.46 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.86.3.47 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.86.3.48 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.86.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-mpz_class::geometrically_covers (Pointset_Powerset_BD_Shape_mpz_class *y*)

11.86.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-mpz_class::geometrically_equals (Pointset_Powerset_BD_Shape_mpz_class *y*)

11.86.3.51 native int parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::hashCode ()

11.86.3.52 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-mpz_class::intersection_assign (Pointset_Powerset_BD_Shape_mpz_class *p*)

11.86.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::is_bounded ()

11.86.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::is_discrete ()

11.86.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::is_disjoint_from (Pointset_Powerset_BD_Shape_mpz_class *y*)

11.86.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::is_empty ()

11.86.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::is_topologically_closed ()

11.86.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::is_universe ()

11.86.3.59 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::map_space_dimensions (Partial_Function *pfunc*)

11.86.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.86.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.86.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.86.3.63 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.86.3.64 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::OK ()

11.86.3.65 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::omega_reduce ()

11.86.3.66 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::pairwise_reduce ()

11.86.3.67 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::refine_with_congruence (Congruence *c*)

11.86.3.68 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_mpz_class::refine_with_congruences (Congruence_System *c*)

11.86.3.69 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::refine_with_constraint (Constraint *c*)

11.86.3.70 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_mpz_class::refine_with_constraints (Constraint_System *c*)

11.86.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_-mpz_class::relation_with (Congruence *c*)

11.86.3.72 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_-mpz_class::relation_with (Generator *c*)

11.86.3.73 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_BD_Shape_-mpz_class::relation_with (Constraint *c*)

11.86.3.74 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::remove_higher_space_dimensions (long *new_dimension*)

11.86.3.75 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::remove_space_dimensions (Variables_Set *vars*)

11.86.3.76 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::simplify_using_context_assign (Pointset_Powerset_BD_Shape_mpz_class *p*)

11.86.3.77 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::size ()

11.86.3.78 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::space_dimension ()

11.86.3.79 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-mpz_class::strictly_contains (Pointset_Powerset_BD_Shape_mpz_class *y*)

11.86.3.80 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class::swap (Pointset_Powerset_BD_Shape_mpz_class *y*)

11.86.3.81 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-mpz_class::time_elapse_assign (Pointset_Powerset_BD_Shape_mpz_class *p*)

11.86.3.82 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::topological_closure_assign ()

11.86.3.83 native String parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::toString ()

11.86.3.84 native long parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::total_memory_in_bytes ()

11.86.3.85 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::unconstrain_space_dimension (Variable *var*)

11.86.3.86 native void parma_polyhedra_library::Pointset_Powerset_BD_-Shape_mpz_class::unconstrain_space_dimensions (Variables_Set *vars*)

11.86.3.87 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_-mpz_class::upper_bound_assign (Pointset_Powerset_BD_Shape_mpz_class *p*)

11.86.3.88 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class::upper_bound_assign_if_exact (Pointset_Powerset_BD_Shape_mpz_class *y*)

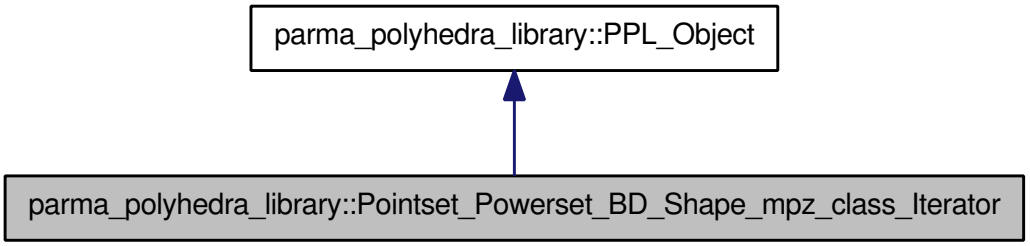
The documentation for this class was generated from the following file:

- Pointset_Powerset_BD_Shape_mpz_class.java

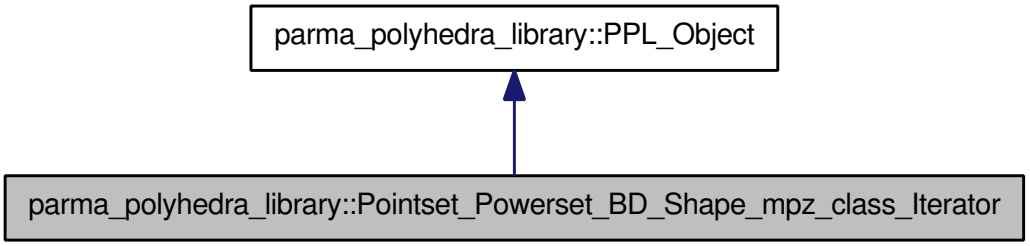
11.87 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class_-Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<mpz_class> >:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class_Iterator:



Public Member Functions

- Pointset_Powerset_BD_Shape_mpz_class_Iterator (Pointset_Powerset_BD_Shape_mpz_class_-Iterator y)
- native boolean equals (Pointset_Powerset_BD_Shape_mpz_class_Iterator itr)
- native void next ()
- native void prev ()
- native BD_Shape_mpz_class get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_BD_Shape_mpz_class_Iterator ()
- native void build_ppl_object (Pointset_Powerset_BD_Shape_mpz_class obj)
- native void build_cpp_object (Pointset_Powerset_BD_Shape_mpz_class_Iterator y)

11.87.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<mpz_class> >:: iterator.

Definition at line 30 of file Pointset_Powerset_BD_Shape_mpz_class_Iterator.java.

11.87.2 Constructor & Destructor Documentation

11.87.2.1 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class_-Iterator::Pointset_Powerset_BD_Shape_mpz_class_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_BD_Shape_mpz_class_Iterator.java.

11.87.2.2 parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class_Iterator::Pointset_Powerset_BD_Shape_mpz_class_Iterator (Pointset_Powerset_BD_Shape_mpz_class_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_BD_Shape_mpz_class_Iterator.java.

References build_cpp_object().

11.87.3 Member Function Documentation

11.87.3.1 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class_-Iterator::build_cpp_object (Pointset_Powerset_BD_Shape_mpz_class_Iterator *y*) [private]

Referenced by Pointset_Powerset_BD_Shape_mpz_class_Iterator().

11.87.3.2 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_-class_Iterator::build_ppl_object (Pointset_Powerset_BD_Shape_mpz_class *obj*) [private]

11.87.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_BD_Shape_-mpz_class_Iterator::equals (Pointset_Powerset_BD_Shape_mpz_class_Iterator *itr*)

11.87.3.4 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class_-Iterator::finalize () `[protected]`

11.87.3.5 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class_-Iterator::free ()

11.87.3.6 native BD_Shape_mpz_class parma_polyhedra_library::Pointset_Powerset_BD_-Shape_mpz_class_Iterator::get_disjunct ()

11.87.3.7 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class_-Iterator::next ()

11.87.3.8 native void parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class_-Iterator::prev ()

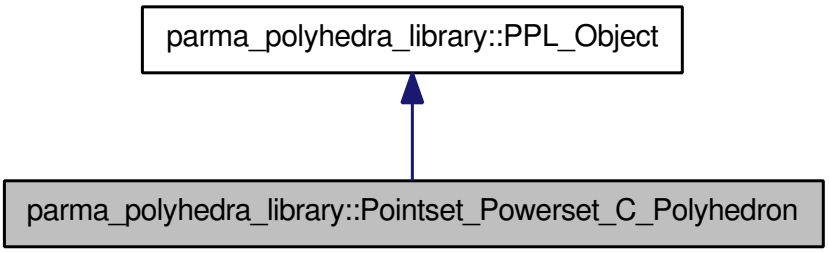
The documentation for this class was generated from the following file:

- Pointset_Powerset_BD_Shape_mpz_class_Iterator.java

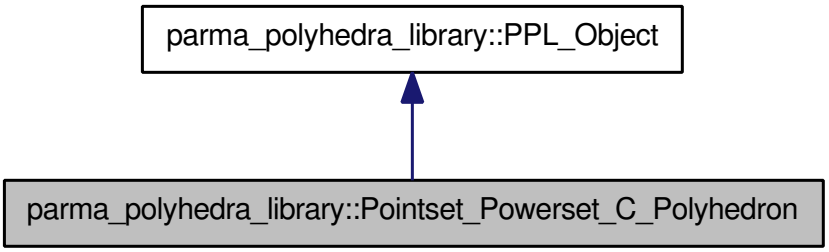
11.88 parma_polyhedra_library::Pointset_Powerset_C_Polyhedron Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<C_Polyhedron>

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_C_Polyhedron:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_C_Polyhedron:



Public Member Functions

- Pointset_Powerset_C_Polyhedron (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_C_Polyhedron (Pointset_Powerset_C_Polyhedron y)
- Pointset_Powerset_C_Polyhedron (C_Polyhedron y)
- Pointset_Powerset_C_Polyhedron (Pointset_Powerset_C_Polyhedron y, Complexity_Class complexity)
- Pointset_Powerset_C_Polyhedron (C_Polyhedron y, Complexity_Class complexity)
- Pointset_Powerset_C_Polyhedron (Constraint_System cs)
- Pointset_Powerset_C_Polyhedron (Congruence_System cs)
- native void swap (Pointset_Powerset_C_Polyhedron y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)

- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_C_Polyhedron y)
- native boolean strictly_contains (Pointset_Powerset_C_Polyhedron y)
- native boolean is_disjoint_from (Pointset_Powerset_C_Polyhedron y)
- native boolean geometrically_covers (Pointset_Powerset_C_Polyhedron y)
- native boolean geometrically_equals (Pointset_Powerset_C_Polyhedron y)
- native boolean equals (Pointset_Powerset_C_Polyhedron p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_C_Polyhedron p)
- native void upper_bound_assign (Pointset_Powerset_C_Polyhedron p)
- native void difference_assign (Pointset_Powerset_C_Polyhedron p)
- native void concatenate_assign (Pointset_Powerset_C_Polyhedron p)
- native void time_elapse_assign (Pointset_Powerset_C_Polyhedron p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_C_Polyhedron y)
- native boolean simplify_using_context_assign (Pointset_Powerset_C_Polyhedron p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)

- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_C_Polyhedron_Iterator begin_iterator ()
- native Pointset_Powerset_C_Polyhedron_Iterator end_iterator ()
- native void add_disjunct (C_Polyhedron j_disj)
- native void drop_disjunct (Pointset_Powerset_C_Polyhedron_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_C_Polyhedron_Iterator itr1, Pointset_Powerset_C_-Polyhedron_Iterator itr2)
- native void BHZ03_BHRZ03_BHRZ03_widening_assign (Pointset_Powerset_C_Polyhedron y)
- native void BHZ03_H79_H79_widening_assign (Pointset_Powerset_C_Polyhedron y)
- native void BGP99_BHRZ03_extrapolation_assign (Pointset_Powerset_C_Polyhedron y, Integer d)
- native void BGP99_H79_extrapolation_assign (Pointset_Powerset_C_Polyhedron y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_C_Polyhedron ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_C_Polyhedron y)
- native void build_cpp_object (Pointset_Powerset_C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)

11.88.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<C_Polyhedron>

Definition at line 33 of file Pointset_Powerset_C_Polyhedron.java.

11.88.2 Constructor & Destructor Documentation

11.88.2.1 parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::Pointset_Powerset_C_Polyhedron (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_C_Polyhedron.java.

References build_cpp_object().

11.88.2.2 parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::Pointset_Powerset_C_Polyhedron () [inline, private]

Definition at line 45 of file Pointset_Powerset_C_Polyhedron.java.

11.88.2.3 parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::Pointset_Powerset_C_Polyhedron (Pointset_Powerset_C_Polyhedron *y*) [inline]

Definition at line 52 of file Pointset_Powerset_C_Polyhedron.java.

References build_cpp_object().

11.88.2.4 parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::Pointset_Powerset_C_Polyhedron (C_Polyhedron *y*) [inline]

Definition at line 56 of file Pointset_Powerset_C_Polyhedron.java.

References build_cpp_object().

11.88.2.5 parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::Pointset_Powerset_C_Polyhedron (Pointset_Powerset_C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_C_Polyhedron.java.

References build_cpp_object().

11.88.2.6 parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::Pointset_Powerset_C_Polyhedron (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_C_Polyhedron.java.

References build_cpp_object().

11.88.2.7 parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::Pointset_Powerset_C_Polyhedron (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_C_Polyhedron.java.

References build_cpp_object().

11.88.2.8 parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::Pointset_Powerset_C_Polyhedron (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_C_Polyhedron.java.

References build_cpp_object().

11.88.3 Member Function Documentation

11.88.3.1 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::add_congruence (Congruence *c*)

11.88.3.2 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::add_congruences (Congruence_System *c*)

11.88.3.3 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::add_constraint (Constraint *c*)

11.88.3.4 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::add_constraints (Constraint_System *c*)

11.88.3.5 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::add_disjunct (C_Polyhedron *j_disj*)

11.88.3.6 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::add_space_dimensions_and_embed (long *m*)

11.88.3.7 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::add_space_dimensions_and_project (long *m*)

11.88.3.8 native long parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::affine_dimension ()

11.88.3.9 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.88.3.10 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.88.3.11 native String parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::ascii_dump ()

11.88.3.12 native Pointset_Powerset_C_Polyhedron_Iterator parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::begin_iterator ()

11.88.3.13 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::BGP99_BHRZ03_extrapolation_assign (Pointset_Powerset_C_Polyhedron *y*, Integer *d*)

11.88.3.14 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::BGP99_H79_extrapolation_assign (Pointset_Powerset_C_Polyhedron *y*, Integer *d*)

11.88.3.15 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::BHZ03_-BHRZ03_BHRZ03_widening_assign (Pointset_Powerset_C_Polyhedron *y*)

11.88.3.16 native void parma_polyhedra_library::Pointset_Powerset_C_-Polyhedron::BHZ03_H79_H79_widening_assign (Pointset_Powerset_C_Polyhedron *y*)

11.88.3.17 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::bounded_-affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.88.3.18 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::bounded_-affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.88.3.19 native boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::bounds_-from_above (Linear_Expression *expr*)

11.88.3.20 native boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::bounds_-from_below (Linear_Expression *expr*)

11.88.3.21 native void parma_polyhedra_library::Pointset_Powerset_C_-Polyhedron::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) `[private]`

11.88.3.22 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::build_cpp_-object (C_Polyhedron *y*) `[private]`

11.88.3.23 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::build_cpp_object (Pointset_Powerset_C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.88.3.24 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::build_cpp_object (Pointset_Powerset_C_Polyhedron *y*) [private]

11.88.3.25 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.88.3.26 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::build_cpp_object (Congruence_System *cs*) [private]

11.88.3.27 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_C_Polyhedron().

11.88.3.28 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::concatenate_assign (Pointset_Powerset_C_Polyhedron *p*)

11.88.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::constrains (Variable *var*)

11.88.3.30 native boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::contains (Pointset_Powerset_C_Polyhedron *y*)

11.88.3.31 native boolean parma_polyhedra_library::Pointset_Powerset_C_-Polyhedron::contains_integer_point ()

11.88.3.32 native void parma_polyhedra_library::Pointset_Powerset_C_-Polyhedron::difference_assign (Pointset_Powerset_C_Polyhedron *p*)

11.88.3.33 native void parma_polyhedra_library::Pointset_Powerset_C_-Polyhedron::drop_disjunct (Pointset_Powerset_C_Polyhedron_Iterator *itr*)

11.88.3.34 native void parma_polyhedra_library::Pointset_Powerset_C_-Polyhedron::drop_disjuncts (Pointset_Powerset_C_Polyhedron_Iterator *itr1*, Pointset_Powerset_C_Polyhedron_Iterator *itr2*)

11.88.3.35 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::drop_-some_non_integer_points (Integer *complexity_threshold*)

11.88.3.36 native void parma_polyhedra_library::Pointset_Powerset_C_-Polyhedron::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.88.3.37 native Pointset_Powerset_C_Polyhedron_Iterator parma_-polyhedra_library::Pointset_Powerset_C_Polyhedron::end_iterator ()

11.88.3.38 boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_C_Polyhedron.java.

References equals().

11.88.3.39 native boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::equals (Pointset_Powerset_C_Polyhedron *p*)

Referenced by equals().

11.88.3.40 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::expand_space_dimension (Variable *var*, long *m*)

11.88.3.41 native long parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::external_memory_in_bytes ()

11.88.3.42 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::finalize () `[protected]`

11.88.3.43 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.88.3.44 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::free ()

11.88.3.45 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.88.3.46 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.88.3.47 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.88.3.48 native void parma_polyhedra_library::Pointset_Powerset_C_-Polyhedron::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.88.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_C_-Polyhedron::geometrically_covers (Pointset_Powerset_C_Polyhedron *y*)

11.88.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_C_-Polyhedron::geometrically_equals (Pointset_Powerset_C_Polyhedron *y*)

11.88.3.51 native int parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::hashCode ()

11.88.3.52 native void parma_polyhedra_library::Pointset_Powerset_C_-Polyhedron::intersection_assign (Pointset_Powerset_C_Polyhedron *p*)

11.88.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::is_-bounded ()

11.88.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::is_-discrete ()

11.88.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_C_-Polyhedron::is_disjoint_from (Pointset_Powerset_C_Polyhedron *y*)

11.88.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::is_empty ()

11.88.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::is_topologically_closed ()

11.88.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::is_universe ()

11.88.3.59 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::map_space_dimensions (Partial_Function *pfunc*)

11.88.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.88.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.88.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.88.3.63 native boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.88.3.64 native boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::OK ()

11.88.3.65 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::omega_reduce ()

11.88.3.66 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::pairwise_reduce ()

11.88.3.67 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::refine_with_congruence (Congruence *c*)

11.88.3.68 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::refine_with_congruences (Congruence_System *c*)

11.88.3.69 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::refine_with_constraint (Constraint *c*)

11.88.3.70 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::refine_with_constraints (Constraint_System *c*)

11.88.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::relation_with (Congruence *c*)

11.88.3.72 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::relation_with (Generator *c*)

11.88.3.73 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::relation_with (Constraint *c*)

11.88.3.74 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::remove_higher_space_dimensions (long *new_dimension*)

11.88.3.75 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::remove_space_dimensions (Variables_Set *vars*)

11.88.3.76 native boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::simplify_using_context_assign (Pointset_Powerset_C_Polyhedron *p*)

11.88.3.77 native long parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::size ()

11.88.3.78 native long parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::space_dimension ()

11.88.3.79 native boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::strictly_contains (Pointset_Powerset_C_Polyhedron *y*)

11.88.3.80 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::swap (Pointset_Powerset_C_Polyhedron *y*)

11.88.3.81 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::time_elapse_assign (Pointset_Powerset_C_Polyhedron *p*)

11.88.3.82 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::topological_closure_assign ()

11.88.3.83 native String parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::toString ()

11.88.3.84 native long parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::total_memory_in_bytes ()

11.88.3.85 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::unconstrain_space_dimension (Variable *var*)

11.88.3.86 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::unconstrain_space_dimensions (Variables_Set *vars*)

11.88.3.87 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::upper_bound_assign (Pointset_Powerset_C_Polyhedron *p*)

11.88.3.88 native boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron::upper_bound_assign_if_exact (Pointset_Powerset_C_Polyhedron *y*)

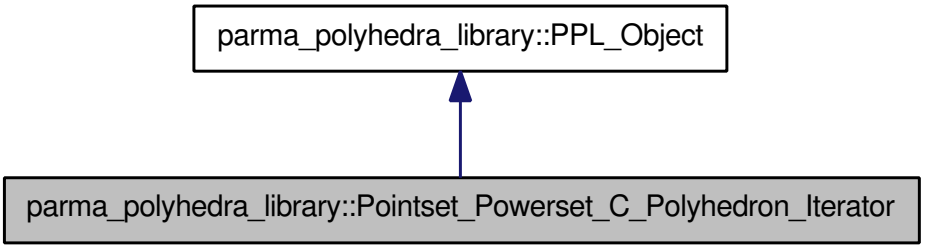
The documentation for this class was generated from the following file:

- Pointset_Powerset_C_Polyhedron.java

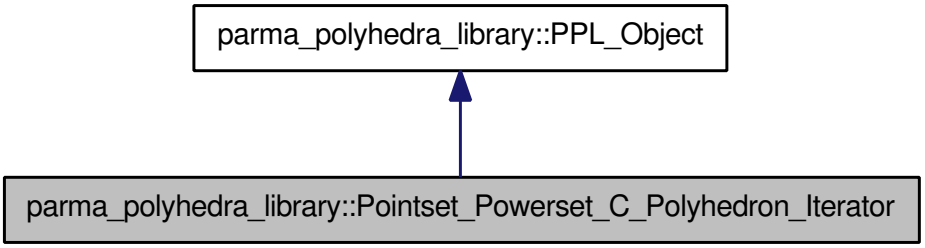
11.89 parma_polyhedra_library::Pointset_Powerset_C_Polyhedron_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<C_Polyhedron>:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_C_Polyhedron_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_C_Polyhedron_Iterator:



Public Member Functions

- Pointset_Powerset_C_Polyhedron_Iterator (Pointset_Powerset_C_Polyhedron_Iterator y)
- native boolean equals (Pointset_Powerset_C_Polyhedron_Iterator itr)
- native void next ()
- native void prev ()
- native C_Polyhedron get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_C_Polyhedron_Iterator ()
- native void build_ppl_object (Pointset_Powerset_C_Polyhedron obj)
- native void build_cpp_object (Pointset_Powerset_C_Polyhedron_Iterator y)

11.89.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<C_Polyhedron>:: iterator.

Definition at line 30 of file Pointset_Powerset_C_Polyhedron_Iterator.java.

11.89.2 Constructor & Destructor Documentation

11.89.2.1 parma_polyhedra_library::Pointset_Powerset_C_Polyhedron_-Iterator::Pointset_Powerset_C_Polyhedron_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_C_Polyhedron_Iterator.java.

11.89.2.2 parma_polyhedra_library::Pointset_Powerset_C_Polyhedron_Iterator::Pointset_Powerset_C_Polyhedron_Iterator (Pointset_Powerset_C_Polyhedron_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_C_Polyhedron_Iterator.java.

References build_cpp_object().

11.89.3 Member Function Documentation

11.89.3.1 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron_Iterator::build_cpp_object (Pointset_Powerset_C_Polyhedron_Iterator *y*) [private]

Referenced by Pointset_Powerset_C_Polyhedron_Iterator().

11.89.3.2 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron_Iterator::build_ppl_object (Pointset_Powerset_C_Polyhedron *obj*) [private]

11.89.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_C_Polyhedron_Iterator::equals (Pointset_Powerset_C_Polyhedron_Iterator *itr*)

11.89.3.4 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron_Iterator::finalize () [protected]

11.89.3.5 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron_Iterator::free ()

11.89.3.6 native C_Polyhedron parma_polyhedra_library::Pointset_Powerset_C_Polyhedron_Iterator::get_disjunct ()

11.89.3.7 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron_Iterator::next ()

11.89.3.8 native void parma_polyhedra_library::Pointset_Powerset_C_Polyhedron_Iterator::prev ()

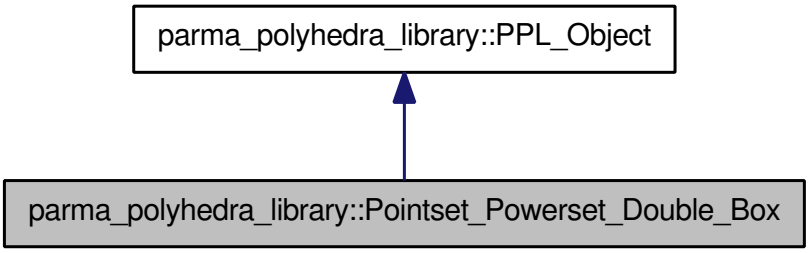
The documentation for this class was generated from the following file:

- Pointset_Powerset_C_Polyhedron_Iterator.java

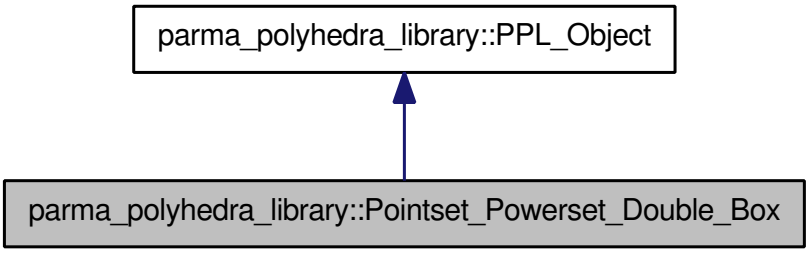
11.90 parma_polyhedra_library::Pointset_Powerset_Double_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Double_Box>

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Double_Box:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Double_Box:



Public Member Functions

- Pointset_Powerset_Double_Box (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Double_Box (Pointset_Powerset_Double_Box y)
- Pointset_Powerset_Double_Box (Double_Box y)
- Pointset_Powerset_Double_Box (Pointset_Powerset_Double_Box y, Complexity_Class complexity)
- Pointset_Powerset_Double_Box (Double_Box y, Complexity_Class complexity)
- Pointset_Powerset_Double_Box (Constraint_System cs)

- Pointset_Powerset_Double_Box (Congruence_System cs)
- native void swap (Pointset_Powerset_Double_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Double_Box y)
- native boolean strictly_contains (Pointset_Powerset_Double_Box y)
- native boolean is_disjoint_from (Pointset_Powerset_Double_Box y)
- native boolean geometrically_covers (Pointset_Powerset_Double_Box y)
- native boolean geometrically_equals (Pointset_Powerset_Double_Box y)
- native boolean equals (Pointset_Powerset_Double_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Double_Box p)
- native void upper_bound_assign (Pointset_Powerset_Double_Box p)
- native void difference_assign (Pointset_Powerset_Double_Box p)
- native void concatenate_assign (Pointset_Powerset_Double_Box p)
- native void time_elapse_assign (Pointset_Powerset_Double_Box p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Double_Box y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Double_Box p)
- native boolean constrains (Variable var)

- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Double_Box_Iterator begin_iterator ()
- native Pointset_Powerset_Double_Box_Iterator end_iterator ()
- native void add_disjunct (Double_Box j_disj)
- native void drop_disjunct (Pointset_Powerset_Double_Box_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Double_Box_Iterator itr1, Pointset_Powerset_Double_Box_Iterator itr2)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Double_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Double_Box y)

- native void build_cpp_object (Pointset_Powerset_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)

11.90.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Double_Box>

Definition at line 33 of file Pointset_Powerset_Double_Box.java.

11.90.2 Constructor & Destructor Documentation

11.90.2.1 parma_polyhedra_library::Pointset_Powerset_Double_Box::Pointset_Powerset_Double_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Double_Box.java.

References build_cpp_object().

11.90.2.2 parma_polyhedra_library::Pointset_Powerset_Double_Box::Pointset_Powerset_Double_Box () [inline, private]

Definition at line 45 of file Pointset_Powerset_Double_Box.java.

11.90.2.3 parma_polyhedra_library::Pointset_Powerset_Double_Box::Pointset_Powerset_Double_Box (Pointset_Powerset_Double_Box *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Double_Box.java.

References build_cpp_object().

11.90.2.4 parma_polyhedra_library::Pointset_Powerset_Double_Box::Pointset_Powerset_Double_Box (Double_Box *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Double_Box.java.

References build_cpp_object().

11.90.2.5 parma_polyhedra_library::Pointset_Powerset_Double_Box::Pointset_Powerset_Double_Box (Pointset_Powerset_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Double_Box.java.

References build_cpp_object().

11.90.2.6 parma_polyhedra_library::Pointset_Powerset_Double_Box::Pointset_Powerset_Double_Box (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Double_Box.java.

References build_cpp_object().

11.90.2.7 parma_polyhedra_library::Pointset_Powerset_Double_Box::Pointset_Powerset_Double_Box (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Double_Box.java.

References build_cpp_object().

11.90.2.8 parma_polyhedra_library::Pointset_Powerset_Double_Box::Pointset_Powerset_Double_Box (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Double_Box.java.

References build_cpp_object().

11.90.3 Member Function Documentation

11.90.3.1 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::add_congruence (Congruence *c*)

11.90.3.2 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::add_congruences (Congruence_System *c*)

11.90.3.3 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::add_constraint (Constraint *c*)

11.90.3.4 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::add_constraints (Constraint_System *c*)

11.90.3.5 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::add_disjunct (Double_Box *j_disj*)

11.90.3.6 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::add_space_dimensions_and_embed (long *m*)

11.90.3.7 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::add_space_dimensions_and_project (long *m*)

11.90.3.8 native long parma_polyhedra_library::Pointset_Powerset_Double_Box::affine_dimension ()

11.90.3.9 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.90.3.10 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.90.3.11 native String parma_polyhedra_library::Pointset_Powerset_Double_Box::ascii_dump ()

11.90.3.12 native Pointset_Powerset_Double_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Double_Box::begin_iterator ()

11.90.3.13 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.90.3.14 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.90.3.15 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::bounds_from_above (Linear_Expression *expr*)

11.90.3.16 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::bounds_from_below (Linear_Expression *expr*)

11.90.3.17 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) `[private]`

11.90.3.18 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::build_cpp_object (Double_Box *y*) `[private]`

11.90.3.19 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::build_cpp_object (Pointset_Powerset_Double_Box *y*, Complexity_Class *complexity*) `[private]`

11.90.3.20 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::build_cpp_object (Pointset_Powerset_Double_Box *y*) `[private]`

11.90.3.21 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) `[private]`

11.90.3.22 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::build_cpp_object (Congruence_System *cs*) `[private]`

11.90.3.23 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::build_cpp_-object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Double_Box().

11.90.3.24 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::concatenate_-assign (Pointset_Powerset_Double_Box *p*)

11.90.3.25 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::constrains (Variable *var*)

11.90.3.26 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::contains (Pointset_Powerset_Double_Box *y*)

11.90.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::contains_-integer_point ()

11.90.3.28 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::difference_-assign (Pointset_Powerset_Double_Box *p*)

11.90.3.29 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::drop_disjunct (Pointset_Powerset_Double_Box_Iterator *itr*)

11.90.3.30 native void parma_polyhedra_library::Pointset_Powerset_Double_-Box::drop_disjuncts (Pointset_Powerset_Double_Box_Iterator *itr1*, Pointset_Powerset_Double_Box_Iterator *itr2*)

11.90.3.31 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::drop_some_-non_integer_points (Integer *complexity_threshold*)

11.90.3.32 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.90.3.33 native Pointset_Powerset_Double_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Double_Box::end_iterator ()

11.90.3.34 boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::equals (Object *y*) [inline]

Definition at line 190 of file Pointset_Powerset_Double_Box.java.

References equals().

11.90.3.35 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::equals (Pointset_Powerset_Double_Box *p*)

Referenced by equals().

11.90.3.36 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::expand_space_dimension (Variable *var*, long *m*)

11.90.3.37 native long parma_polyhedra_library::Pointset_Powerset_Double_Box::external_memory_in_bytes ()

11.90.3.38 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::finalize () [protected]

11.90.3.39 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.90.3.40 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::free ()

11.90.3.41 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.90.3.42 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.90.3.43 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.90.3.44 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.90.3.45 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::geometrically_covers (Pointset_Powerset_Double_Box *y*)

11.90.3.46 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::geometrically_equals (Pointset_Powerset_Double_Box *y*)

11.90.3.47 native int parma_polyhedra_library::Pointset_Powerset_Double_Box::hashCode ()

11.90.3.48 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::intersection_assign (Pointset_Powerset_Double_Box *p*)

11.90.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::is_bounded ()

11.90.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::is_discrete ()

11.90.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::is_disjoint_from (Pointset_Powerset_Double_Box *y*)

11.90.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::is_empty ()

11.90.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::is_topologically_closed ()

11.90.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::is_universe ()

11.90.3.55 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::map_space_dimensions (Partial_Function *pfunc*)

11.90.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.90.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.90.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.90.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.90.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::OK ()

11.90.3.61 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::omega_reduce ()

11.90.3.62 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::pairwise_reduce ()

11.90.3.63 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::refine_with_congruence (Congruence *c*)

11.90.3.64 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::refine_with_congruences (Congruence_System *c*)

11.90.3.65 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::refine_with_constraint (Constraint *c*)

11.90.3.66 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::refine_with_constraints (Constraint_System *c*)

11.90.3.67 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Double_Box::relation_with (Congruence *c*)

11.90.3.68 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_Double_Box::relation_with (Generator *c*)

11.90.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Double_Box::relation_with (Constraint *c*)

11.90.3.70 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::remove_higher_space_dimensions (long *new_dimension*)

11.90.3.71 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::remove_space_dimensions (Variables_Set *vars*)

11.90.3.72 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::simplify_using_context_assign (Pointset_Powerset_Double_Box *p*)

11.90.3.73 native long parma_polyhedra_library::Pointset_Powerset_Double_Box::size ()

11.90.3.74 native long parma_polyhedra_library::Pointset_Powerset_Double_Box::space_dimension ()

11.90.3.75 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::strictly_contains (Pointset_Powerset_Double_Box *y*)

11.90.3.76 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::swap (Pointset_Powerset_Double_Box *y*)

11.90.3.77 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::time_elapse_assign (Pointset_Powerset_Double_Box *p*)

11.90.3.78 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::topological_closure_assign ()

11.90.3.79 native String parma_polyhedra_library::Pointset_Powerset_Double_Box::toString ()

11.90.3.80 native long parma_polyhedra_library::Pointset_Powerset_Double_Box::total_memory_in_bytes ()

11.90.3.81 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::unconstrain_space_dimension (Variable *var*)

11.90.3.82 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.90.3.83 native void parma_polyhedra_library::Pointset_Powerset_Double_Box::upper_bound_assign (Pointset_Powerset_Double_Box *p*)

11.90.3.84 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box::upper_bound_assign_if_exact (Pointset_Powerset_Double_Box *y*)

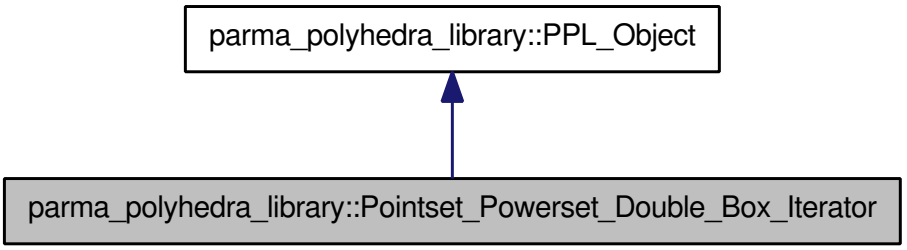
The documentation for this class was generated from the following file:

- Pointset_Powerset_Double_Box.java

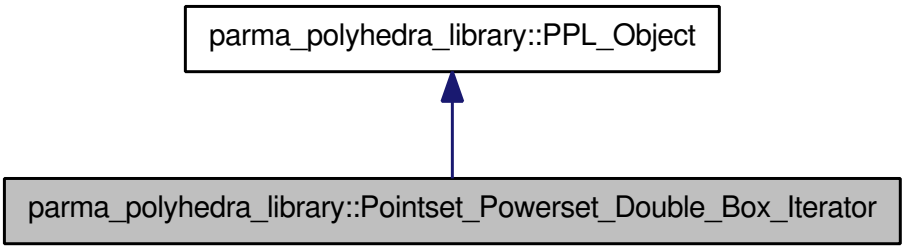
11.91 parma_polyhedra_library::Pointset_Powerset_Double_Box_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Double_Box>:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Double_Box_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Double_Box_Iterator:



Public Member Functions

- Pointset_Powerset_Double_Box_Iterator (Pointset_Powerset_Double_Box_Iterator y)
- native boolean equals (Pointset_Powerset_Double_Box_Iterator itr)
- native void next ()
- native void prev ()
- native Double_Box get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Double_Box_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Double_Box obj)
- native void build_cpp_object (Pointset_Powerset_Double_Box_Iterator y)

11.91.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Double_Box>:: iterator.

Definition at line 30 of file Pointset_Powerset_Double_Box_Iterator.java.

11.91.2 Constructor & Destructor Documentation

11.91.2.1 parma_polyhedra_library::Pointset_Powerset_Double_Box_Iterator::Pointset_Powerset_Double_Box_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Double_Box_Iterator.java.

11.91.2.2 parma_polyhedra_library::Pointset_Powerset_Double_Box_Iterator::Pointset_Powerset_Double_Box_Iterator (Pointset_Powerset_Double_Box_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Double_Box_Iterator.java.

References build_cpp_object().

11.91.3 Member Function Documentation

11.91.3.1 native void parma_polyhedra_library::Pointset_Powerset_Double_Box_Iterator::build_cpp_object (Pointset_Powerset_Double_Box_Iterator *y*) [private]

Referenced by Pointset_Powerset_Double_Box_Iterator().

11.91.3.2 native void parma_polyhedra_library::Pointset_Powerset_Double_Box_Iterator::build_ppl_object (Pointset_Powerset_Double_Box *obj*) [private]

11.91.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Double_Box_Iterator::equals (Pointset_Powerset_Double_Box_Iterator *itr*)

11.91.3.4 native void parma_polyhedra_library::Pointset_Powerset_Double_Box_Iterator::finalize () [protected]

11.91.3.5 native void parma_polyhedra_library::Pointset_Powerset_Double_Box_Iterator::free ()

11.91.3.6 native Double_Box parma_polyhedra_library::Pointset_Powerset_Double_Box_Iterator::get_disjunct ()

11.91.3.7 native void parma_polyhedra_library::Pointset_Powerset_Double_Box_Iterator::next ()

11.91.3.8 native void parma_polyhedra_library::Pointset_Powerset_Double_Box_Iterator::prev ()

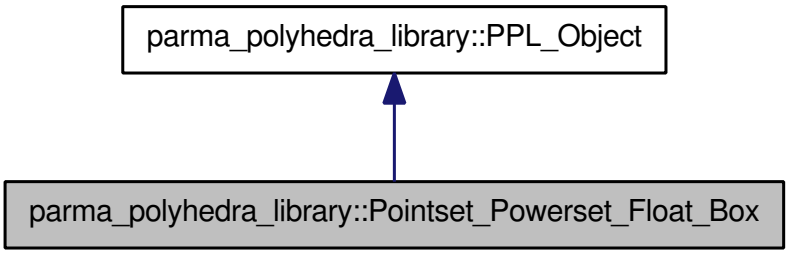
The documentation for this class was generated from the following file:

- Pointset_Powerset_Double_Box_Iterator.java

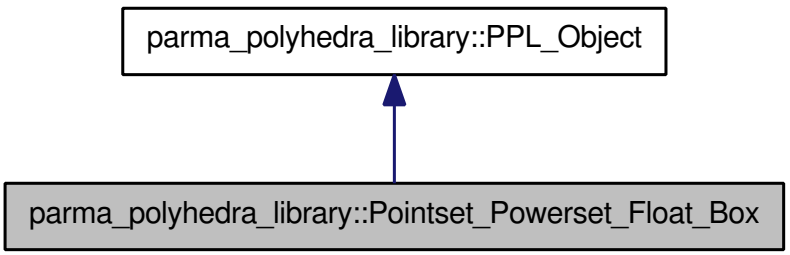
11.92 parma_polyhedra_library::Pointset_Powerset_Float_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Float_Box>

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Float_Box:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Float_Box:



Public Member Functions

- Pointset_Powerset_Float_Box (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Float_Box (Pointset_Powerset_Float_Box y)
- Pointset_Powerset_Float_Box (Float_Box y)
- Pointset_Powerset_Float_Box (Pointset_Powerset_Float_Box y, Complexity_Class complexity)
- Pointset_Powerset_Float_Box (Float_Box y, Complexity_Class complexity)
- Pointset_Powerset_Float_Box (Constraint_System cs)
- Pointset_Powerset_Float_Box (Congruence_System cs)
- native void swap (Pointset_Powerset_Float_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Float_Box y)
- native boolean strictly_contains (Pointset_Powerset_Float_Box y)
- native boolean is_disjoint_from (Pointset_Powerset_Float_Box y)
- native boolean geometrically_covers (Pointset_Powerset_Float_Box y)
- native boolean geometrically_equals (Pointset_Powerset_Float_Box y)
- native boolean equals (Pointset_Powerset_Float_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Float_Box p)

- native void upper_bound_assign (Pointset_Powerset_Float_Box p)
- native void difference_assign (Pointset_Powerset_Float_Box p)
- native void concatenate_assign (Pointset_Powerset_Float_Box p)
- native void time_elapse_assign (Pointset_Powerset_Float_Box p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Float_Box y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Float_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Float_Box_Iterator begin_iterator ()
- native Pointset_Powerset_Float_Box_Iterator end_iterator ()
- native void add_disjunct (Float_Box j_disj)
- native void drop_disjunct (Pointset_Powerset_Float_Box_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Float_Box_Iterator itr1, Pointset_Powerset_Float_Box_Iterator itr2)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Float_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Float_Box y)
- native void build_cpp_object (Pointset_Powerset_Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)

11.92.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Float_Box>

Definition at line 33 of file Pointset_Powerset_Float_Box.java.

11.92.2 Constructor & Destructor Documentation

11.92.2.1 parma_polyhedra_library::Pointset_Powerset_Float_Box::Pointset_Powerset_Float_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Float_Box.java.

References build_cpp_object().

11.92.2.2 parma_polyhedra_library::Pointset_Powerset_Float_Box::Pointset_Powerset_Float_Box () [inline, private]

Definition at line 45 of file Pointset_Powerset_Float_Box.java.

11.92.2.3 parma_polyhedra_library::Pointset_Powerset_Float_Box::Pointset_Powerset_Float_Box (Pointset_Powerset_Float_Box *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Float_Box.java.

References build_cpp_object().

11.92.2.4 parma_polyhedra_library::Pointset_Powerset_Float_Box::Pointset_Powerset_Float_Box (Float_Box *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Float_Box.java.

References build_cpp_object().

11.92.2.5 parma_polyhedra_library::Pointset_Powerset_Float_Box::Pointset_Powerset_Float_Box (Pointset_Powerset_Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Float_Box.java.

References build_cpp_object().

11.92.2.6 parma_polyhedra_library::Pointset_Powerset_Float_Box::Pointset_Powerset_Float_Box (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Float_Box.java.

References build_cpp_object().

11.92.2.7 parma_polyhedra_library::Pointset_Powerset_Float_Box::Pointset_Powerset_Float_Box (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Float_Box.java.

References build_cpp_object().

11.92.2.8 parma_polyhedra_library::Pointset_Powerset_Float_Box::Pointset_Powerset_Float_Box (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Float_Box.java.

References build_cpp_object().

11.92.3 Member Function Documentation

11.92.3.1 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::add_congruence (Congruence *c*)

11.92.3.2 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::add_congruences (Congruence_System *c*)

11.92.3.3 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::add_constraint (Constraint *c*)

11.92.3.4 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::add_constraints (Constraint_System *c*)

11.92.3.5 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::add_disjunct (Float_Box *j_disj*)

11.92.3.6 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::add_space_dimensions_and_embed (long *m*)

11.92.3.7 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::add_space_dimensions_and_project (long *m*)

11.92.3.8 native long parma_polyhedra_library::Pointset_Powerset_Float_Box::affine_dimension ()

11.92.3.9 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.92.3.10 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.92.3.11 native String parma_polyhedra_library::Pointset_Powerset_Float_Box::ascii_dump ()

11.92.3.12 native Pointset_Powerset_Float_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Float_Box::begin_iterator ()

11.92.3.13 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.92.3.14 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.92.3.15 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::bounds_from_above (Linear_Expression *expr*)

11.92.3.16 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::bounds_from_below (Linear_Expression *expr*)

11.92.3.17 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) `[private]`

11.92.3.18 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::build_cpp_object (Float_Box *y*) `[private]`

11.92.3.19 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::build_cpp_object (Pointset_Powerset_Float_Box *y*, Complexity_Class *complexity*) `[private]`

11.92.3.20 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::build_cpp_object (Pointset_Powerset_Float_Box *y*) `[private]`

11.92.3.21 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.92.3.22 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::build_cpp_object (Congruence_System *cs*) [private]

11.92.3.23 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Float_Box().

11.92.3.24 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::concatenate_assign (Pointset_Powerset_Float_Box *p*)

11.92.3.25 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::constrains (Variable *var*)

11.92.3.26 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::contains (Pointset_Powerset_Float_Box *y*)

11.92.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::contains_integer_point ()

11.92.3.28 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::difference_assign (Pointset_Powerset_Float_Box *p*)

11.92.3.29 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::drop_disjunct (Pointset_Powerset_Float_Box_Iterator *itr*)

11.92.3.30 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::drop_disjuncts (Pointset_Powerset_Float_Box_Iterator *itr1*, Pointset_Powerset_Float_Box_Iterator *itr2*)

11.92.3.31 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.92.3.32 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.92.3.33 native Pointset_Powerset_Float_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Float_Box::end_iterator ()

11.92.3.34 boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_Float_Box.java.

References equals().

11.92.3.35 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::equals (Pointset_Powerset_Float_Box *p*)

Referenced by equals().

11.92.3.36 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::expand_space_dimension (Variable *var*, long *m*)

11.92.3.37 native long parma_polyhedra_library::Pointset_Powerset_Float_Box::external_memory_in_bytes ()

11.92.3.38 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::finalize () [protected]

11.92.3.39 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.92.3.40 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::free ()

11.92.3.41 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.92.3.42 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.92.3.43 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.92.3.44 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.92.3.45 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::geometrically_covers (Pointset_Powerset_Float_Box *y*)

11.92.3.46 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::geometrically_equals (Pointset_Powerset_Float_Box *y*)

11.92.3.47 native int parma_polyhedra_library::Pointset_Powerset_Float_Box::hashCode ()

11.92.3.48 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::intersection_assign (Pointset_Powerset_Float_Box *p*)

11.92.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::is_bounded ()

11.92.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::is_discrete ()

11.92.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::is_disjoint_from (Pointset_Powerset_Float_Box *y*)

11.92.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::is_empty ()

11.92.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::is_topologically_closed ()

11.92.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::is_universe ()

11.92.3.55 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::map_space_dimensions (Partial_Function *pfunc*)

11.92.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.92.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.92.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.92.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.92.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::OK ()

11.92.3.61 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::omega_reduce ()

11.92.3.62 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::pairwise_reduce ()

11.92.3.63 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::refine_with_congruence (Congruence *c*)

11.92.3.64 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::refine_with_congruences (Congruence_System *c*)

11.92.3.65 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::refine_with_constraint (Constraint *c*)

11.92.3.66 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::refine_with_constraints (Constraint_System *c*)

11.92.3.67 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Float_Box::relation_with (Congruence *c*)

11.92.3.68 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_Float_Box::relation_with (Generator *c*)

11.92.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Float_Box::relation_with (Constraint *c*)

11.92.3.70 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::remove_higher_space_dimensions (long *new_dimension*)

11.92.3.71 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::remove_space_dimensions (Variables_Set *vars*)

11.92.3.72 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::simplify_using_context_assign (Pointset_Powerset_Float_Box *p*)

11.92.3.73 native long parma_polyhedra_library::Pointset_Powerset_Float_Box::size ()

11.92.3.74 native long parma_polyhedra_library::Pointset_Powerset_Float_Box::space_dimension ()

11.92.3.75 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::strictly_contains (Pointset_Powerset_Float_Box *y*)

11.92.3.76 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::swap (Pointset_Powerset_Float_Box *y*)

11.92.3.77 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::time_elapse_assign (Pointset_Powerset_Float_Box *p*)

11.92.3.78 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::topological_closure_assign ()

11.92.3.79 native String parma_polyhedra_library::Pointset_Powerset_Float_Box::toString ()

11.92.3.80 native long parma_polyhedra_library::Pointset_Powerset_Float_Box::total_memory_in_bytes ()

11.92.3.81 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::unconstrain_space_dimension (Variable *var*)

11.92.3.82 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.92.3.83 native void parma_polyhedra_library::Pointset_Powerset_Float_Box::upper_bound_assign (Pointset_Powerset_Float_Box *p*)

11.92.3.84 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box::upper_bound_assign_if_exact (Pointset_Powerset_Float_Box *y*)

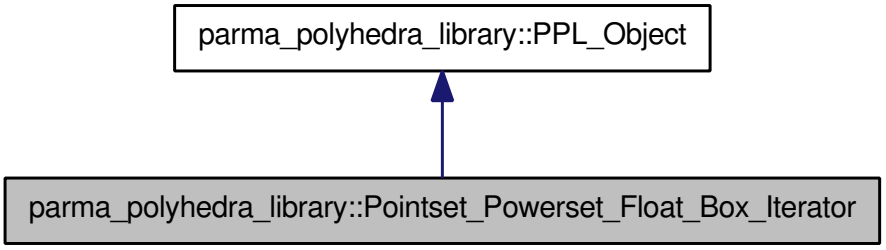
The documentation for this class was generated from the following file:

- Pointset_Powerset_Float_Box.java

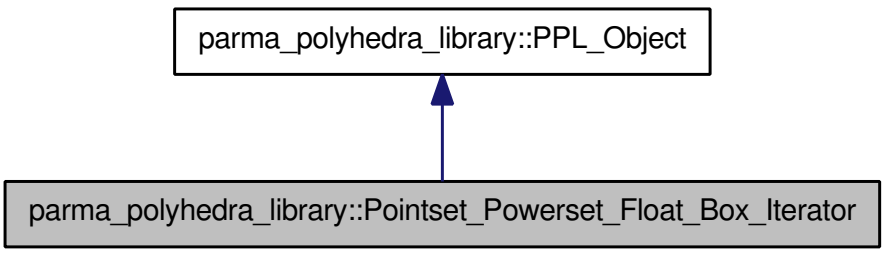
11.93 parma_polyhedra_library::Pointset_Powerset_Float_Box_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Float_Box>:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Float_Box_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Float_Box_Iterator:



Public Member Functions

- Pointset_Powerset_Float_Box_Iterator (Pointset_Powerset_Float_Box_Iterator y)
- native boolean equals (Pointset_Powerset_Float_Box_Iterator itr)
- native void next ()
- native void prev ()
- native Float_Box get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Float_Box_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Float_Box obj)
- native void build_cpp_object (Pointset_Powerset_Float_Box_Iterator y)

11.93.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Float_Box>:: iterator.

Definition at line 30 of file Pointset_Powerset_Float_Box_Iterator.java.

11.93.2 Constructor & Destructor Documentation

11.93.2.1 parma_polyhedra_library::Pointset_Powerset_Float_Box_Iterator::Pointset_Powerset_Float_Box_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Float_Box_Iterator.java.

11.93.2.2 parma_polyhedra_library::Pointset_Powerset_Float_Box_Iterator::Pointset_Powerset_Float_Box_Iterator (Pointset_Powerset_Float_Box_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Float_Box_Iterator.java.

References build_cpp_object().

11.93.3 Member Function Documentation

11.93.3.1 native void parma_polyhedra_library::Pointset_Powerset_Float_Box_Iterator::build_cpp_object (Pointset_Powerset_Float_Box_Iterator *y*) [private]

Referenced by Pointset_Powerset_Float_Box_Iterator().

11.93.3.2 native void parma_polyhedra_library::Pointset_Powerset_Float_Box_Iterator::build_ppl_object (Pointset_Powerset_Float_Box *obj*) [private]

11.93.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Float_Box_Iterator::equals (Pointset_Powerset_Float_Box_Iterator *itr*)

11.93.3.4 native void parma_polyhedra_library::Pointset_Powerset_Float_Box_Iterator::finalize () [protected]

11.93.3.5 native void parma_polyhedra_library::Pointset_Powerset_Float_Box_Iterator::free ()

11.93.3.6 native Float_Box parma_polyhedra_library::Pointset_Powerset_Float_Box_Iterator::get_disjunct ()

11.93.3.7 native void parma_polyhedra_library::Pointset_Powerset_Float_Box_Iterator::next ()

11.93.3.8 native void parma_polyhedra_library::Pointset_Powerset_Float_Box_Iterator::prev ()

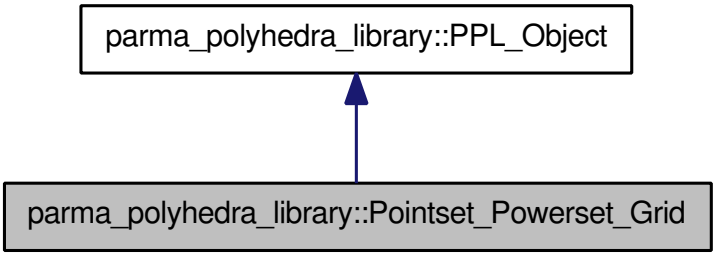
The documentation for this class was generated from the following file:

- Pointset_Powerset_Float_Box_Iterator.java

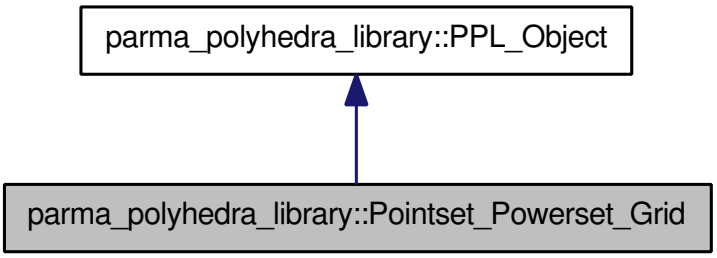
11.94 parma_polyhedra_library::Pointset_Powerset_Grid Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Grid>

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Grid:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Grid:



Public Member Functions

- Pointset_Powerset_Grid (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Grid (Pointset_Powerset_Grid y)
- Pointset_Powerset_Grid (Grid y)
- Pointset_Powerset_Grid (Pointset_Powerset_Grid y, Complexity_Class complexity)
- Pointset_Powerset_Grid (Grid y, Complexity_Class complexity)
- Pointset_Powerset_Grid (Constraint_System cs)
- Pointset_Powerset_Grid (Congruence_System cs)
- native void swap (Pointset_Powerset_Grid y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Grid y)
- native boolean strictly_contains (Pointset_Powerset_Grid y)
- native boolean is_disjoint_from (Pointset_Powerset_Grid y)
- native boolean geometrically_covers (Pointset_Powerset_Grid y)

- native boolean geometrically_equals (Pointset_Powerset_Grid y)
- native boolean equals (Pointset_Powerset_Grid p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Grid p)
- native void upper_bound_assign (Pointset_Powerset_Grid p)
- native void difference_assign (Pointset_Powerset_Grid p)
- native void concatenate_assign (Pointset_Powerset_Grid p)
- native void time_elapse_assign (Pointset_Powerset_Grid p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Grid y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Grid p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Grid_Iterator begin_iterator ()

- native Pointset_Powerset_Grid_Iterator end_iterator ()
- native void add_disjunct (Grid j_disj)
- native void drop_disjunct (Pointset_Powerset_Grid_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Grid_Iterator itr1, Pointset_Powerset_Grid_Iterator itr2)
- native void BHZ03_Grid_congruence_widening_assign (Pointset_Powerset_Grid y)
- native void BHZ03_Grid_generator_widening_assign (Pointset_Powerset_Grid y)
- native void BGP99_congruence_extrapolation_assign (Pointset_Powerset_Grid y, Integer d)
- native void BGP99_generator_extrapolation_assign (Pointset_Powerset_Grid y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Grid ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Grid y)
- native void build_cpp_object (Pointset_Powerset_Grid y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)

11.94.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Grid>

Definition at line 33 of file Pointset_Powerset_Grid.java.

11.94.2 Constructor & Destructor Documentation

11.94.2.1 parma_polyhedra_library::Pointset_Powerset_Grid::Pointset_Powerset_Grid (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Grid.java.

References build_cpp_object().

11.94.2.2 parma_polyhedra_library::Pointset_Powerset_Grid::Pointset_Powerset_Grid () [inline, private]

Definition at line 45 of file Pointset_Powerset_Grid.java.

11.94.2.3 parma_polyhedra_library::Pointset_Powerset_Grid::Pointset_Powerset_Grid (Pointset_Powerset_Grid *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Grid.java.

References build_cpp_object().

11.94.2.4 parma_polyhedra_library::Pointset_Powerset_Grid::Pointset_Powerset_Grid (Grid *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Grid.java.

References build_cpp_object().

11.94.2.5 parma_polyhedra_library::Pointset_Powerset_Grid::Pointset_Powerset_Grid (Pointset_Powerset_Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Grid.java.

References build_cpp_object().

11.94.2.6 parma_polyhedra_library::Pointset_Powerset_Grid::Pointset_Powerset_Grid (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Grid.java.

References build_cpp_object().

11.94.2.7 parma_polyhedra_library::Pointset_Powerset_Grid::Pointset_Powerset_Grid (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Grid.java.

References build_cpp_object().

11.94.2.8 parma_polyhedra_library::Pointset_Powerset_Grid::Pointset_Powerset_Grid (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Grid.java.

References build_cpp_object().

11.94.3 Member Function Documentation

11.94.3.1 native void parma_polyhedra_library::Pointset_Powerset_Grid::add_congruence (Congruence *c*)

11.94.3.2 native void parma_polyhedra_library::Pointset_Powerset_Grid::add_congruences (Congruence_System *c*)

11.94.3.3 native void parma_polyhedra_library::Pointset_Powerset_Grid::add_constraint (Constraint *c*)

11.94.3.4 native void parma_polyhedra_library::Pointset_Powerset_Grid::add_constraints (Constraint_System *c*)

11.94.3.5 native void parma_polyhedra_library::Pointset_Powerset_Grid::add_disjunct (Grid *j_disj*)

11.94.3.6 native void parma_polyhedra_library::Pointset_Powerset_Grid::add_space_dimensions_and_embed (long *m*)

11.94.3.7 native void parma_polyhedra_library::Pointset_Powerset_Grid::add_space_dimensions_and_project (long *m*)

11.94.3.8 native long parma_polyhedra_library::Pointset_Powerset_Grid::affine_dimension ()

11.94.3.9 native void parma_polyhedra_library::Pointset_Powerset_Grid::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.94.3.10 native void parma_polyhedra_library::Pointset_Powerset_Grid::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.94.3.11 native String parma_polyhedra_library::Pointset_Powerset_Grid::ascii_dump ()

11.94.3.12 native Pointset_Powerset_Grid_Iterator parma_polyhedra_library::Pointset_Powerset_Grid::begin_iterator ()

11.94.3.13 native void parma_polyhedra_library::Pointset_Powerset_Grid::BGP99_congruence_extrapolation_assign (Pointset_Powerset_Grid *y*, Integer *d*)

11.94.3.14 native void parma_polyhedra_library::Pointset_Powerset_Grid::BGP99_generator_extrapolation_assign (Pointset_Powerset_Grid *y*, Integer *d*)

11.94.3.15 native void parma_polyhedra_library::Pointset_Powerset_Grid::BHZ03_Grid_congruence_widening_assign (Pointset_Powerset_Grid *y*)

11.94.3.16 native void parma_polyhedra_library::Pointset_Powerset_Grid::BHZ03_Grid_generator_widening_assign (Pointset_Powerset_Grid *y*)

11.94.3.17 native void parma_polyhedra_library::Pointset_Powerset_Grid::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.94.3.18 native void parma_polyhedra_library::Pointset_Powerset_Grid::bounded_affine_-preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.94.3.19 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::bounds_from_-above (Linear_Expression *expr*)

11.94.3.20 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::bounds_from_-below (Linear_Expression *expr*)

11.94.3.21 native void parma_polyhedra_library::Pointset_Powerset_Grid::build_cpp_object (Grid *y*, Complexity_Class *complexity*) `[private]`

11.94.3.22 native void parma_polyhedra_library::Pointset_Powerset_Grid::build_cpp_object (Grid *y*) `[private]`

11.94.3.23 native void parma_polyhedra_library::Pointset_Powerset_Grid::build_cpp_object (Pointset_Powerset_Grid *y*, Complexity_Class *complexity*) `[private]`

11.94.3.24 native void parma_polyhedra_library::Pointset_Powerset_Grid::build_cpp_object (Pointset_Powerset_Grid *y*) `[private]`

11.94.3.25 native void parma_polyhedra_library::Pointset_Powerset_Grid::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) `[private]`

11.94.3.26 native void parma_polyhedra_library::Pointset_Powerset_Grid::build_cpp_object (Congruence_System *cs*) `[private]`

11.94.3.27 native void parma_polyhedra_library::Pointset_Powerset_Grid::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Grid().

11.94.3.28 native void parma_polyhedra_library::Pointset_Powerset_Grid::concatenate_assign (Pointset_Powerset_Grid *p*)

11.94.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::constrains (Variable *var*)

11.94.3.30 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::contains (Pointset_Powerset_Grid *y*)

11.94.3.31 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::contains_integer_point ()

11.94.3.32 native void parma_polyhedra_library::Pointset_Powerset_Grid::difference_assign (Pointset_Powerset_Grid *p*)

11.94.3.33 native void parma_polyhedra_library::Pointset_Powerset_Grid::drop_disjunct (Pointset_Powerset_Grid_Iterator *itr*)

11.94.3.34 native void parma_polyhedra_library::Pointset_Powerset_Grid::drop_disjuncts (Pointset_Powerset_Grid_Iterator *itr1*, Pointset_Powerset_Grid_Iterator *itr2*)

11.94.3.35 native void parma_polyhedra_library::Pointset_Powerset_Grid::drop_some_non_integer_points (Integer *complexity_threshold*)

11.94.3.36 native void parma_polyhedra_library::Pointset_Powerset_Grid::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.94.3.37 native Pointset_Powerset_Grid_Iterator parma_polyhedra_library::Pointset_Powerset_Grid::end_iterator ()

11.94.3.38 boolean parma_polyhedra_library::Pointset_Powerset_Grid::equals (Object *y*) [inline]

Definition at line 190 of file Pointset_Powerset_Grid.java.

References equals().

11.94.3.39 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::equals (Pointset_Powerset_Grid *p*)

Referenced by equals().

11.94.3.40 native void parma_polyhedra_library::Pointset_Powerset_Grid::expand_space_dimension (Variable *var*, long *m*)

11.94.3.41 native long parma_polyhedra_library::Pointset_Powerset_Grid::external_memory_in_bytes ()

11.94.3.42 native void parma_polyhedra_library::Pointset_Powerset_Grid::finalize () [protected]

11.94.3.43 native void parma_polyhedra_library::Pointset_Powerset_Grid::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.94.3.44 native void parma_polyhedra_library::Pointset_Powerset_Grid::free ()

11.94.3.45 native void parma_polyhedra_library::Pointset_Powerset_Grid::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.94.3.46 native void parma_polyhedra_library::Pointset_Powerset_Grid::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.94.3.47 native void parma_polyhedra_library::Pointset_Powerset_Grid::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.94.3.48 native void parma_polyhedra_library::Pointset_Powerset_Grid::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.94.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::geometrically_covers (Pointset_Powerset_Grid *y*)

11.94.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::geometrically_equals (Pointset_Powerset_Grid *y*)

11.94.3.51 native int parma_polyhedra_library::Pointset_Powerset_Grid::hashCode ()

11.94.3.52 native void parma_polyhedra_library::Pointset_Powerset_Grid::intersection_assign (Pointset_Powerset_Grid *p*)

11.94.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::is_bounded ()

11.94.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::is_discrete ()

11.94.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::is_disjoint_from (Pointset_Powerset_Grid *y*)

11.94.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::is_empty ()

11.94.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::is_topologically_closed ()

11.94.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::is_universe ()

11.94.3.59 native void parma_polyhedra_library::Pointset_Powerset_Grid::map_space_dimensions (Partial_Function *pfunc*)

11.94.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.94.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.94.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.94.3.63 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.94.3.64 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::OK ()

11.94.3.65 native void parma_polyhedra_library::Pointset_Powerset_Grid::omega_reduce ()

11.94.3.66 native void parma_polyhedra_library::Pointset_Powerset_Grid::pairwise_reduce ()

11.94.3.67 native void parma_polyhedra_library::Pointset_Powerset_Grid::refine_with_congruence (Congruence *c*)

11.94.3.68 native void parma_polyhedra_library::Pointset_Powerset_Grid::refine_with_congruences (Congruence_System *c*)

11.94.3.69 native void parma_polyhedra_library::Pointset_Powerset_Grid::refine_with_constraint (Constraint *c*)

11.94.3.70 native void parma_polyhedra_library::Pointset_Powerset_Grid::refine_with_constraints (Constraint_System *c*)

11.94.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Grid::relation_with (Congruence *c*)

11.94.3.72 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_Grid::relation_with (Generator *c*)

11.94.3.73 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Grid::relation_with (Constraint *c*)

11.94.3.74 native void parma_polyhedra_library::Pointset_Powerset_Grid::remove_higher_space_dimensions (long *new_dimension*)

11.94.3.75 native void parma_polyhedra_library::Pointset_Powerset_Grid::remove_space_dimensions (Variables_Set *vars*)

11.94.3.76 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::simplify_using_context_assign (Pointset_Powerset_Grid *p*)

11.94.3.77 native long parma_polyhedra_library::Pointset_Powerset_Grid::size ()

11.94.3.78 native long parma_polyhedra_library::Pointset_Powerset_Grid::space_dimension ()

11.94.3.79 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::strictly_contains (Pointset_Powerset_Grid *y*)

11.94.3.80 native void parma_polyhedra_library::Pointset_Powerset_Grid::swap (Pointset_Powerset_Grid *y*)

11.94.3.81 native void parma_polyhedra_library::Pointset_Powerset_Grid::time_elapse_assign (Pointset_Powerset_Grid *p*)

11.94.3.82 native void parma_polyhedra_library::Pointset_Powerset_Grid::topological_closure_assign ()

11.94.3.83 native String parma_polyhedra_library::Pointset_Powerset_Grid::toString ()

11.94.3.84 native long parma_polyhedra_library::Pointset_Powerset_Grid::total_memory_in_bytes ()

11.94.3.85 native void parma_polyhedra_library::Pointset_Powerset_Grid::unconstrain_space_dimension (Variable *var*)

11.94.3.86 native void parma_polyhedra_library::Pointset_Powerset_Grid::unconstrain_space_dimensions (Variables_Set *vars*)

11.94.3.87 native void parma_polyhedra_library::Pointset_Powerset_Grid::upper_bound_assign (Pointset_Powerset_Grid *p*)

11.94.3.88 native boolean parma_polyhedra_library::Pointset_Powerset_Grid::upper_bound_assign_if_exact (Pointset_Powerset_Grid *y*)

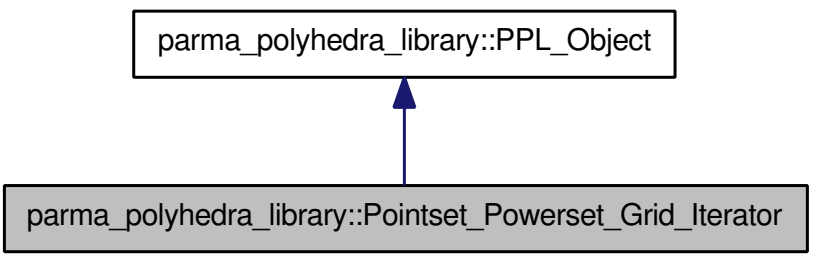
The documentation for this class was generated from the following file:

- Pointset_Powerset_Grid.java

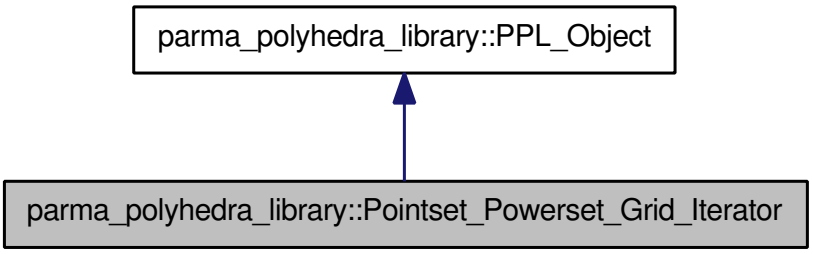
11.95 parma_polyhedra_library::Pointset_Powerset_Grid_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Grid>:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Grid_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Grid_Iterator:



Public Member Functions

- Pointset_Powerset_Grid_Iterator (Pointset_Powerset_Grid_Iterator y)
- native boolean equals (Pointset_Powerset_Grid_Iterator itr)
- native void next ()
- native void prev ()
- native Grid get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Grid_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Grid obj)
- native void build_cpp_object (Pointset_Powerset_Grid_Iterator y)

11.95.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Grid>:: iterator.

Definition at line 30 of file Pointset_Powerset_Grid_Iterator.java.

11.95.2 Constructor & Destructor Documentation

11.95.2.1 parma_polyhedra_library::Pointset_Powerset_Grid_Iterator::Pointset_Powerset_-Grid_Iterator () `[inline, private]`

Definition at line 32 of file Pointset_Powerset_Grid_Iterator.java.

11.95.2.2 parma_polyhedra_library::Pointset_Powerset_Grid_Iterator::Pointset_Powerset_Grid_Iterator (Pointset_Powerset_Grid_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Grid_Iterator.java.

References build_cpp_object().

11.95.3 Member Function Documentation

11.95.3.1 native void parma_polyhedra_library::Pointset_Powerset_Grid_Iterator::build_cpp_object (Pointset_Powerset_Grid_Iterator *y*) [private]

Referenced by Pointset_Powerset_Grid_Iterator().

11.95.3.2 native void parma_polyhedra_library::Pointset_Powerset_Grid_Iterator::build_ppl_object (Pointset_Powerset_Grid *obj*) [private]

11.95.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Grid_Iterator::equals (Pointset_Powerset_Grid_Iterator *itr*)

11.95.3.4 native void parma_polyhedra_library::Pointset_Powerset_Grid_Iterator::finalize () [protected]

11.95.3.5 native void parma_polyhedra_library::Pointset_Powerset_Grid_Iterator::free ()

11.95.3.6 native Grid parma_polyhedra_library::Pointset_Powerset_Grid_Iterator::get_disjunct ()

11.95.3.7 native void parma_polyhedra_library::Pointset_Powerset_Grid_Iterator::next ()

11.95.3.8 native void parma_polyhedra_library::Pointset_Powerset_Grid_Iterator::prev ()

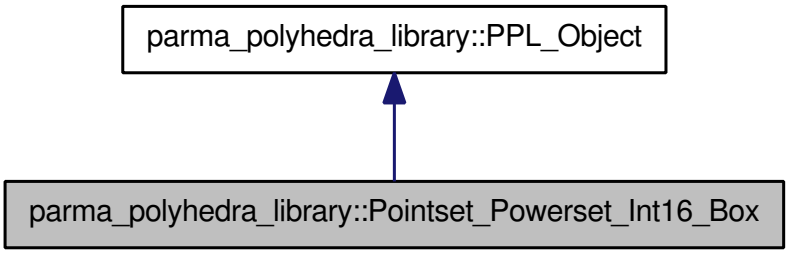
The documentation for this class was generated from the following file:

- Pointset_Powerset_Grid_Iterator.java

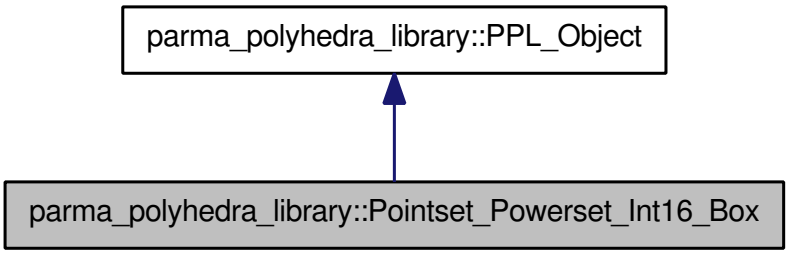
11.96 parma_polyhedra_library::Pointset_Powerset_Int16_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int16_Box>

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Int16_Box:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Int16_Box:



Public Member Functions

- Pointset_Powerset_Int16_Box (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Int16_Box (Pointset_Powerset_Int16_Box y)
- Pointset_Powerset_Int16_Box (Int16_Box y)
- Pointset_Powerset_Int16_Box (Pointset_Powerset_Int16_Box y, Complexity_Class complexity)
- Pointset_Powerset_Int16_Box (Int16_Box y, Complexity_Class complexity)
- Pointset_Powerset_Int16_Box (Constraint_System cs)
- Pointset_Powerset_Int16_Box (Congruence_System cs)
- native void swap (Pointset_Powerset_Int16_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)

- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Int16_Box y)
- native boolean strictly_contains (Pointset_Powerset_Int16_Box y)
- native boolean is_disjoint_from (Pointset_Powerset_Int16_Box y)
- native boolean geometrically_covers (Pointset_Powerset_Int16_Box y)
- native boolean geometrically_equals (Pointset_Powerset_Int16_Box y)
- native boolean equals (Pointset_Powerset_Int16_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Int16_Box p)
- native void upper_bound_assign (Pointset_Powerset_Int16_Box p)
- native void difference_assign (Pointset_Powerset_Int16_Box p)
- native void concatenate_assign (Pointset_Powerset_Int16_Box p)
- native void time_elapse_assign (Pointset_Powerset_Int16_Box p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Int16_Box y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Int16_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)

- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Int16_Box_Iterator begin_iterator ()
- native Pointset_Powerset_Int16_Box_Iterator end_iterator ()
- native void add_disjunct (Int16_Box j_disj)
- native void drop_disjunct (Pointset_Powerset_Int16_Box_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Int16_Box_Iterator itr1, Pointset_Powerset_Int16_Box_Iterator itr2)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Int16_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Int16_Box y)
- native void build_cpp_object (Pointset_Powerset_Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)

11.96.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int16_Box>

Definition at line 33 of file Pointset_Powerset_Int16_Box.java.

11.96.2 Constructor & Destructor Documentation

11.96.2.1 parma_polyhedra_library::Pointset_Powerset_Int16_Box::Pointset_Powerset_Int16_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Int16_Box.java.

References build_cpp_object().

11.96.2.2 parma_polyhedra_library::Pointset_Powerset_Int16_Box::Pointset_Powerset_Int16_Box () [inline, private]

Definition at line 45 of file Pointset_Powerset_Int16_Box.java.

11.96.2.3 parma_polyhedra_library::Pointset_Powerset_Int16_Box::Pointset_Powerset_Int16_Box (Pointset_Powerset_Int16_Box *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Int16_Box.java.

References build_cpp_object().

11.96.2.4 parma_polyhedra_library::Pointset_Powerset_Int16_Box::Pointset_Powerset_Int16_Box (Int16_Box *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Int16_Box.java.

References build_cpp_object().

11.96.2.5 parma_polyhedra_library::Pointset_Powerset_Int16_Box::Pointset_Powerset_Int16_Box (Pointset_Powerset_Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Int16_Box.java.

References build_cpp_object().

11.96.2.6 parma_polyhedra_library::Pointset_Powerset_Int16_Box::Pointset_Powerset_Int16_Box (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Int16_Box.java.

References build_cpp_object().

11.96.2.7 parma_polyhedra_library::Pointset_Powerset_Int16_Box::Pointset_Powerset_Int16_Box (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Int16_Box.java.

References build_cpp_object().

11.96.2.8 parma_polyhedra_library::Pointset_Powerset_Int16_Box::Pointset_Powerset_Int16_Box (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Int16_Box.java.

References build_cpp_object().

11.96.3 Member Function Documentation

11.96.3.1 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::add_congruence (Congruence *c*)

11.96.3.2 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::add_congruences (Congruence_System *c*)

11.96.3.3 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::add_constraint (Constraint *c*)

11.96.3.4 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::add_constraints (Constraint_System *c*)

11.96.3.5 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::add_disjunct (Int16_Box *j_disj*)

11.96.3.6 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::add_space_dimensions_and_embed (long *m*)

11.96.3.7 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::add_space_dimensions_and_project (long *m*)

11.96.3.8 native long parma_polyhedra_library::Pointset_Powerset_Int16_Box::affine_dimension ()

11.96.3.9 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.96.3.10 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.96.3.11 native String parma_polyhedra_library::Pointset_Powerset_Int16_Box::ascii_dump ()

11.96.3.12 native Pointset_Powerset_Int16_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Int16_Box::begin_iterator ()

11.96.3.13 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.96.3.14 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.96.3.15 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::bounds_from_above (Linear_Expression *expr*)

11.96.3.16 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::bounds_from_below (Linear_Expression *expr*)

11.96.3.17 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.96.3.18 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::build_cpp_object (Int16_Box *y*) [private]

11.96.3.19 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::build_cpp_object (Pointset_Powerset_Int16_Box *y*, Complexity_Class *complexity*) [private]

11.96.3.20 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::build_cpp_object (Pointset_Powerset_Int16_Box *y*) [private]

11.96.3.21 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.96.3.22 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::build_cpp_object (Congruence_System *cs*) [private]

11.96.3.23 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Int16_Box().

11.96.3.24 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::concatenate_assign (Pointset_Powerset_Int16_Box *p*)

11.96.3.25 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::constrains (Variable *var*)

11.96.3.26 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::contains (Pointset_Powerset_Int16_Box *y*)

11.96.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::contains_integer_point ()

11.96.3.28 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::difference_assign (Pointset_Powerset_Int16_Box *p*)

11.96.3.29 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::drop_disjunct (Pointset_Powerset_Int16_Box_Iterator *itr*)

11.96.3.30 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::drop_disjuncts (Pointset_Powerset_Int16_Box_Iterator *itr1*, Pointset_Powerset_Int16_Box_Iterator *itr2*)

11.96.3.31 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.96.3.32 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.96.3.33 native Pointset_Powerset_Int16_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Int16_Box::end_iterator ()

11.96.3.34 boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::equals (Object *y*) [inline]

Definition at line 190 of file Pointset_Powerset_Int16_Box.java.

References equals().

11.96.3.35 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::equals (Pointset_Powerset_Int16_Box *p*)

Referenced by equals().

11.96.3.36 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::expand_space_dimension (Variable *var*, long *m*)

11.96.3.37 native long parma_polyhedra_library::Pointset_Powerset_Int16_Box::external_memory_in_bytes ()

11.96.3.38 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::finalize () [protected]

11.96.3.39 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.96.3.40 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::free ()

11.96.3.41 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.96.3.42 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.96.3.43 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.96.3.44 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.96.3.45 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::geometrically_covers (Pointset_Powerset_Int16_Box *y*)

11.96.3.46 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::geometrically_equals (Pointset_Powerset_Int16_Box *y*)

11.96.3.47 native int parma_polyhedra_library::Pointset_Powerset_Int16_Box::hashCode ()

11.96.3.48 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::intersection_assign (Pointset_Powerset_Int16_Box *p*)

11.96.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::is_bounded ()

11.96.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::is_discrete ()

11.96.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::is_disjoint_-from (Pointset_Powerset_Int16_Box *y*)

11.96.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::is_empty ()

11.96.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::is_-topologically_closed ()

11.96.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::is_universe ()

11.96.3.55 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::map_space_-dimensions (Partial_Function *pfunc*)

11.96.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.96.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.96.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.96.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.96.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::OK ()

11.96.3.61 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::omega_reduce ()

11.96.3.62 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::pairwise_reduce ()

11.96.3.63 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::refine_with_congruence (Congruence *c*)

11.96.3.64 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::refine_with_congruences (Congruence_System *c*)

11.96.3.65 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::refine_with_constraint (Constraint *c*)

11.96.3.66 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::refine_with_constraints (Constraint_System *c*)

11.96.3.67 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Int16_Box::relation_with (Congruence *c*)

11.96.3.68 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_Int16_Box::relation_with (Generator *c*)

11.96.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Int16_Box::relation_with (Constraint *c*)

11.96.3.70 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::remove_higher_space_dimensions (long *new_dimension*)

11.96.3.71 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::remove_space_dimensions (Variables_Set *vars*)

11.96.3.72 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::simplify_using_context_assign (Pointset_Powerset_Int16_Box *p*)

11.96.3.73 native long parma_polyhedra_library::Pointset_Powerset_Int16_Box::size ()

11.96.3.74 native long parma_polyhedra_library::Pointset_Powerset_Int16_Box::space_dimension ()

11.96.3.75 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::strictly_contains (Pointset_Powerset_Int16_Box *y*)

11.96.3.76 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::swap (Pointset_Powerset_Int16_Box *y*)

11.96.3.77 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::time_elapse_assign (Pointset_Powerset_Int16_Box *p*)

11.96.3.78 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::topological_closure_assign ()

11.96.3.79 native String parma_polyhedra_library::Pointset_Powerset_Int16_Box::toString ()

11.96.3.80 native long parma_polyhedra_library::Pointset_Powerset_Int16_Box::total_memory_in_bytes ()

11.96.3.81 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::unconstrain_space_dimension (Variable *var*)

11.96.3.82 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.96.3.83 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box::upper_bound_assign (Pointset_Powerset_Int16_Box *p*)

11.96.3.84 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box::upper_bound_assign_if_exact (Pointset_Powerset_Int16_Box *y*)

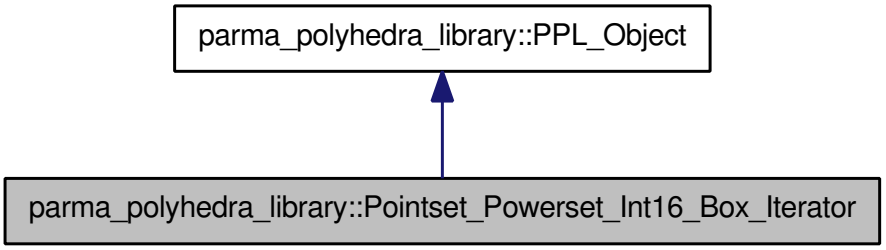
The documentation for this class was generated from the following file:

- Pointset_Powerset_Int16_Box.java

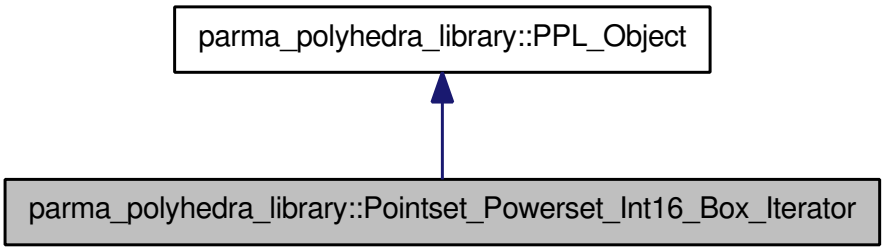
11.97 parma_polyhedra_library::Pointset_Powerset_Int16_Box_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int16_Box>:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Int16_Box_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Int16_Box_Iterator:



Public Member Functions

- Pointset_Powerset_Int16_Box_Iterator (Pointset_Powerset_Int16_Box_Iterator y)
- native boolean equals (Pointset_Powerset_Int16_Box_Iterator itr)
- native void next ()
- native void prev ()
- native Int16_Box get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Int16_Box_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Int16_Box obj)
- native void build_cpp_object (Pointset_Powerset_Int16_Box_Iterator y)

11.97.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int16_Box>:: iterator.

Definition at line 30 of file Pointset_Powerset_Int16_Box_Iterator.java.

11.97.2 Constructor & Destructor Documentation

11.97.2.1 parma_polyhedra_library::Pointset_Powerset_Int16_Box_Iterator::Pointset_Powerset_Int16_Box_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Int16_Box_Iterator.java.

11.97.2.2 parma_polyhedra_library::Pointset_Powerset_Int16_Box_Iterator::Pointset_Powerset_Int16_Box_Iterator (Pointset_Powerset_Int16_Box_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Int16_Box_Iterator.java.

References build_cpp_object().

11.97.3 Member Function Documentation

11.97.3.1 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box_Iterator::build_cpp_object (Pointset_Powerset_Int16_Box_Iterator *y*) [private]

Referenced by Pointset_Powerset_Int16_Box_Iterator().

11.97.3.2 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box_Iterator::build_ppl_object (Pointset_Powerset_Int16_Box *obj*) [private]

11.97.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Int16_Box_Iterator::equals (Pointset_Powerset_Int16_Box_Iterator *itr*)

11.97.3.4 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box_Iterator::finalize () [protected]

11.97.3.5 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box_Iterator::free ()

11.97.3.6 native Int16_Box parma_polyhedra_library::Pointset_Powerset_Int16_Box_Iterator::get_disjunct ()

11.97.3.7 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box_Iterator::next ()

11.97.3.8 native void parma_polyhedra_library::Pointset_Powerset_Int16_Box_Iterator::prev ()

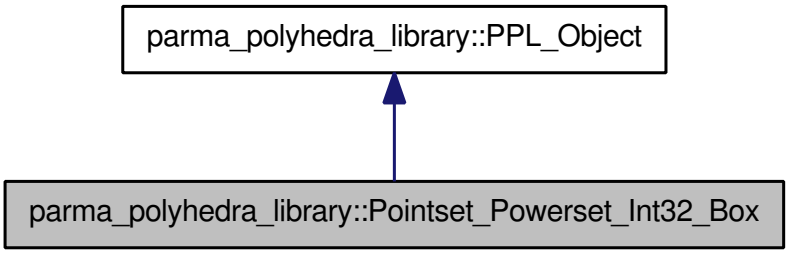
The documentation for this class was generated from the following file:

- Pointset_Powerset_Int16_Box_Iterator.java

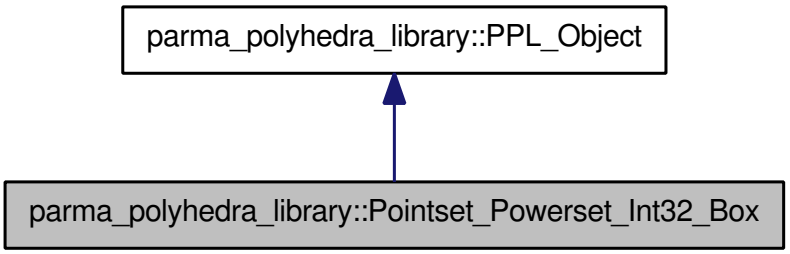
11.98 parma_polyhedra_library::Pointset_Powerset_Int32_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int32_Box>

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Int32_Box:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Int32_Box:



Public Member Functions

- Pointset_Powerset_Int32_Box (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Int32_Box (Pointset_Powerset_Int32_Box y)
- Pointset_Powerset_Int32_Box (Int32_Box y)
- Pointset_Powerset_Int32_Box (Pointset_Powerset_Int32_Box y, Complexity_Class complexity)
- Pointset_Powerset_Int32_Box (Int32_Box y, Complexity_Class complexity)
- Pointset_Powerset_Int32_Box (Constraint_System cs)
- Pointset_Powerset_Int32_Box (Congruence_System cs)
- native void swap (Pointset_Powerset_Int32_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)

- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Int32_Box y)
- native boolean strictly_contains (Pointset_Powerset_Int32_Box y)
- native boolean is_disjoint_from (Pointset_Powerset_Int32_Box y)
- native boolean geometrically_covers (Pointset_Powerset_Int32_Box y)
- native boolean geometrically_equals (Pointset_Powerset_Int32_Box y)
- native boolean equals (Pointset_Powerset_Int32_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Int32_Box p)
- native void upper_bound_assign (Pointset_Powerset_Int32_Box p)
- native void difference_assign (Pointset_Powerset_Int32_Box p)
- native void concatenate_assign (Pointset_Powerset_Int32_Box p)
- native void time_elapse_assign (Pointset_Powerset_Int32_Box p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Int32_Box y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Int32_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)

- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Int32_Box_Iterator begin_iterator ()
- native Pointset_Powerset_Int32_Box_Iterator end_iterator ()
- native void add_disjunct (Int32_Box j_disj)
- native void drop_disjunct (Pointset_Powerset_Int32_Box_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Int32_Box_Iterator itr1, Pointset_Powerset_Int32_Box_Iterator itr2)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Int32_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Int32_Box y)
- native void build_cpp_object (Pointset_Powerset_Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)

11.98.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int32_Box>

Definition at line 33 of file Pointset_Powerset_Int32_Box.java.

11.98.2 Constructor & Destructor Documentation

11.98.2.1 parma_polyhedra_library::Pointset_Powerset_Int32_Box::Pointset_Powerset_Int32_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Int32_Box.java.

References build_cpp_object().

11.98.2.2 parma_polyhedra_library::Pointset_Powerset_Int32_Box::Pointset_Powerset_Int32_Box () [inline, private]

Definition at line 45 of file Pointset_Powerset_Int32_Box.java.

11.98.2.3 parma_polyhedra_library::Pointset_Powerset_Int32_Box::Pointset_Powerset_Int32_Box (Pointset_Powerset_Int32_Box *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Int32_Box.java.

References build_cpp_object().

11.98.2.4 parma_polyhedra_library::Pointset_Powerset_Int32_Box::Pointset_Powerset_Int32_Box (Int32_Box *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Int32_Box.java.

References build_cpp_object().

11.98.2.5 parma_polyhedra_library::Pointset_Powerset_Int32_Box::Pointset_Powerset_Int32_Box (Pointset_Powerset_Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Int32_Box.java.

References build_cpp_object().

11.98.2.6 parma_polyhedra_library::Pointset_Powerset_Int32_Box::Pointset_Powerset_Int32_Box (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Int32_Box.java.

References build_cpp_object().

11.98.2.7 parma_polyhedra_library::Pointset_Powerset_Int32_Box::Pointset_Powerset_Int32_Box (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Int32_Box.java.

References build_cpp_object().

11.98.2.8 parma_polyhedra_library::Pointset_Powerset_Int32_Box::Pointset_Powerset_Int32_Box (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Int32_Box.java.

References build_cpp_object().

11.98.3 Member Function Documentation

11.98.3.1 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::add_congruence (Congruence *c*)

11.98.3.2 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::add_congruences (Congruence_System *c*)

11.98.3.3 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::add_constraint (Constraint *c*)

11.98.3.4 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::add_constraints (Constraint_System *c*)

11.98.3.5 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::add_disjunct (Int32_Box *j_disj*)

11.98.3.6 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::add_space_dimensions_and_embed (long *m*)

11.98.3.7 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::add_space_dimensions_and_project (long *m*)

11.98.3.8 native long parma_polyhedra_library::Pointset_Powerset_Int32_Box::affine_dimension ()

11.98.3.9 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.98.3.10 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.98.3.11 native String parma_polyhedra_library::Pointset_Powerset_Int32_Box::ascii_dump ()

11.98.3.12 native Pointset_Powerset_Int32_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Int32_Box::begin_iterator ()

11.98.3.13 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.98.3.14 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.98.3.15 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::bounds_from_above (Linear_Expression *expr*)

11.98.3.16 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::bounds_from_below (Linear_Expression *expr*)

11.98.3.17 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.98.3.18 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::build_cpp_object (Int32_Box *y*) [private]

11.98.3.19 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::build_cpp_object (Pointset_Powerset_Int32_Box *y*, Complexity_Class *complexity*) [private]

11.98.3.20 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::build_cpp_object (Pointset_Powerset_Int32_Box *y*) [private]

11.98.3.21 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.98.3.22 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::build_cpp_object (Congruence_System *cs*) [private]

11.98.3.23 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Int32_Box().

11.98.3.24 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::concatenate_assign (Pointset_Powerset_Int32_Box *p*)

11.98.3.25 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::constrains (Variable *var*)

11.98.3.26 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::contains (Pointset_Powerset_Int32_Box *y*)

11.98.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::contains_integer_point ()

11.98.3.28 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::difference_assign (Pointset_Powerset_Int32_Box *p*)

11.98.3.29 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::drop_disjunct (Pointset_Powerset_Int32_Box_Iterator *itr*)

11.98.3.30 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::drop_disjuncts (Pointset_Powerset_Int32_Box_Iterator *itr1*, Pointset_Powerset_Int32_Box_Iterator *itr2*)

11.98.3.31 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.98.3.32 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.98.3.33 native Pointset_Powerset_Int32_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Int32_Box::end_iterator ()

11.98.3.34 boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::equals (Object *y*) [inline]

Definition at line 190 of file Pointset_Powerset_Int32_Box.java.

References equals().

11.98.3.35 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::equals (Pointset_Powerset_Int32_Box *p*)

Referenced by equals().

11.98.3.36 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::expand_space_dimension (Variable *var*, long *m*)

11.98.3.37 native long parma_polyhedra_library::Pointset_Powerset_Int32_Box::external_memory_in_bytes ()

11.98.3.38 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::finalize () [protected]

11.98.3.39 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.98.3.40 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::free ()

11.98.3.41 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.98.3.42 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.98.3.43 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.98.3.44 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.98.3.45 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::geometrically_covers (Pointset_Powerset_Int32_Box *y*)

11.98.3.46 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::geometrically_equals (Pointset_Powerset_Int32_Box *y*)

11.98.3.47 native int parma_polyhedra_library::Pointset_Powerset_Int32_Box::hashCode ()

11.98.3.48 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::intersection_assign (Pointset_Powerset_Int32_Box *p*)

11.98.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::is_bounded ()

11.98.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::is_discrete ()

11.98.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::is_disjoint_-from (Pointset_Powerset_Int32_Box *y*)

11.98.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::is_empty ()

11.98.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::is_-topologically_closed ()

11.98.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::is_universe ()

11.98.3.55 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::map_space_-dimensions (Partial_Function *pfunc*)

11.98.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.98.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.98.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.98.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.98.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::OK ()

11.98.3.61 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::omega_reduce ()

11.98.3.62 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::pairwise_reduce ()

11.98.3.63 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::refine_with_congruence (Congruence *c*)

11.98.3.64 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::refine_with_congruences (Congruence_System *c*)

11.98.3.65 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::refine_with_constraint (Constraint *c*)

11.98.3.66 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::refine_with_constraints (Constraint_System *c*)

11.98.3.67 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Int32_Box::relation_with (Congruence *c*)

11.98.3.68 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_Int32_Box::relation_with (Generator *c*)

11.98.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Int32_Box::relation_with (Constraint *c*)

11.98.3.70 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::remove_higher_space_dimensions (long *new_dimension*)

11.98.3.71 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::remove_space_dimensions (Variables_Set *vars*)

11.98.3.72 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::simplify_using_context_assign (Pointset_Powerset_Int32_Box *p*)

11.98.3.73 native long parma_polyhedra_library::Pointset_Powerset_Int32_Box::size ()

11.98.3.74 native long parma_polyhedra_library::Pointset_Powerset_Int32_Box::space_dimension ()

11.98.3.75 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::strictly_contains (Pointset_Powerset_Int32_Box *y*)

11.98.3.76 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::swap (Pointset_Powerset_Int32_Box *y*)

11.98.3.77 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::time_elapse_assign (Pointset_Powerset_Int32_Box *p*)

11.98.3.78 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::topological_closure_assign ()

11.98.3.79 native String parma_polyhedra_library::Pointset_Powerset_Int32_Box::toString ()

11.98.3.80 native long parma_polyhedra_library::Pointset_Powerset_Int32_Box::total_memory_in_bytes ()

11.98.3.81 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::unconstrain_space_dimension (Variable *var*)

11.98.3.82 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.98.3.83 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box::upper_bound_assign (Pointset_Powerset_Int32_Box *p*)

11.98.3.84 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box::upper_bound_assign_if_exact (Pointset_Powerset_Int32_Box *y*)

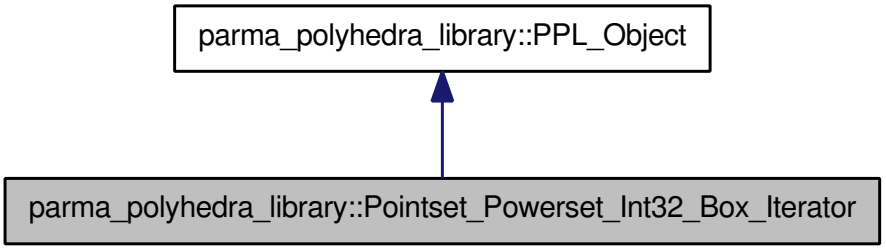
The documentation for this class was generated from the following file:

- Pointset_Powerset_Int32_Box.java

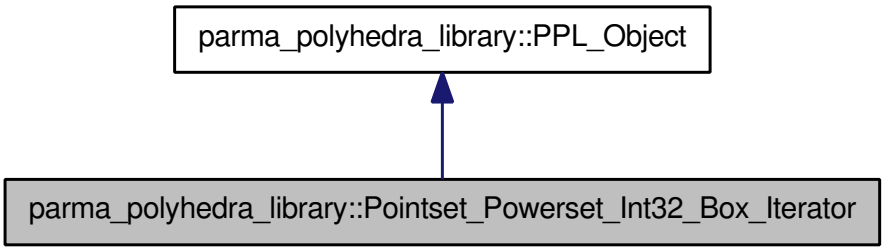
11.99 parma_polyhedra_library::Pointset_Powerset_Int32_Box_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int32_Box>:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Int32_Box_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Int32_Box_Iterator:



Public Member Functions

- Pointset_Powerset_Int32_Box_Iterator (Pointset_Powerset_Int32_Box_Iterator y)
- native boolean equals (Pointset_Powerset_Int32_Box_Iterator itr)
- native void next ()
- native void prev ()
- native Int32_Box get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Int32_Box_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Int32_Box obj)
- native void build_cpp_object (Pointset_Powerset_Int32_Box_Iterator y)

11.99.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int32_Box>:: iterator.

Definition at line 30 of file Pointset_Powerset_Int32_Box_Iterator.java.

11.99.2 Constructor & Destructor Documentation

11.99.2.1 parma_polyhedra_library::Pointset_Powerset_Int32_Box_Iterator::Pointset_Powerset_Int32_Box_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Int32_Box_Iterator.java.

11.99.2.2 parma_polyhedra_library::Pointset_Powerset_Int32_Box_Iterator::Pointset_Powerset_Int32_Box_Iterator (Pointset_Powerset_Int32_Box_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Int32_Box_Iterator.java.

References build_cpp_object().

11.99.3 Member Function Documentation

11.99.3.1 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box_Iterator::build_cpp_object (Pointset_Powerset_Int32_Box_Iterator *y*) [private]

Referenced by Pointset_Powerset_Int32_Box_Iterator().

11.99.3.2 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box_Iterator::build_ppl_object (Pointset_Powerset_Int32_Box *obj*) [private]

11.99.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Int32_Box_Iterator::equals (Pointset_Powerset_Int32_Box_Iterator *itr*)

11.99.3.4 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box_Iterator::finalize () [protected]

11.99.3.5 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box_Iterator::free ()

11.99.3.6 native Int32_Box parma_polyhedra_library::Pointset_Powerset_Int32_Box_Iterator::get_disjunct ()

11.99.3.7 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box_Iterator::next ()

11.99.3.8 native void parma_polyhedra_library::Pointset_Powerset_Int32_Box_Iterator::prev ()

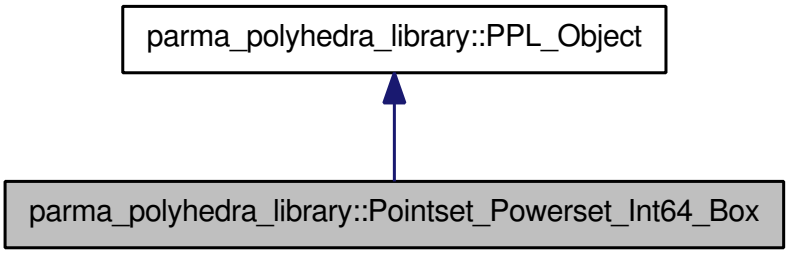
The documentation for this class was generated from the following file:

- Pointset_Powerset_Int32_Box_Iterator.java

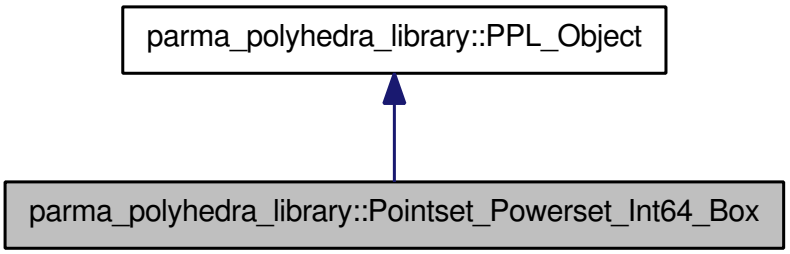
11.100 parma_polyhedra_library::Pointset_Powerset_Int64_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int64_Box>

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Int64_Box:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Int64_Box:



Public Member Functions

- Pointset_Powerset_Int64_Box (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Int64_Box (Pointset_Powerset_Int64_Box y)
- Pointset_Powerset_Int64_Box (Int64_Box y)
- Pointset_Powerset_Int64_Box (Pointset_Powerset_Int64_Box y, Complexity_Class complexity)
- Pointset_Powerset_Int64_Box (Int64_Box y, Complexity_Class complexity)
- Pointset_Powerset_Int64_Box (Constraint_System cs)
- Pointset_Powerset_Int64_Box (Congruence_System cs)
- native void swap (Pointset_Powerset_Int64_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)

- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Int64_Box y)
- native boolean strictly_contains (Pointset_Powerset_Int64_Box y)
- native boolean is_disjoint_from (Pointset_Powerset_Int64_Box y)
- native boolean geometrically_covers (Pointset_Powerset_Int64_Box y)
- native boolean geometrically_equals (Pointset_Powerset_Int64_Box y)
- native boolean equals (Pointset_Powerset_Int64_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Int64_Box p)
- native void upper_bound_assign (Pointset_Powerset_Int64_Box p)
- native void difference_assign (Pointset_Powerset_Int64_Box p)
- native void concatenate_assign (Pointset_Powerset_Int64_Box p)
- native void time_elapse_assign (Pointset_Powerset_Int64_Box p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Int64_Box y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Int64_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)

- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Int64_Box_Iterator begin_iterator ()
- native Pointset_Powerset_Int64_Box_Iterator end_iterator ()
- native void add_disjunct (Int64_Box j_disj)
- native void drop_disjunct (Pointset_Powerset_Int64_Box_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Int64_Box_Iterator itr1, Pointset_Powerset_Int64_Box_Iterator itr2)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Int64_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Int64_Box y)
- native void build_cpp_object (Pointset_Powerset_Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)

11.100.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int64_Box>

Definition at line 33 of file Pointset_Powerset_Int64_Box.java.

11.100.2 Constructor & Destructor Documentation

11.100.2.1 parma_polyhedra_library::Pointset_Powerset_Int64_Box::Pointset_Powerset_Int64_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Int64_Box.java.

References build_cpp_object().

11.100.2.2 parma_polyhedra_library::Pointset_Powerset_Int64_Box::Pointset_Powerset_Int64_Box () [inline, private]

Definition at line 45 of file Pointset_Powerset_Int64_Box.java.

11.100.2.3 parma_polyhedra_library::Pointset_Powerset_Int64_Box::Pointset_Powerset_Int64_Box (Pointset_Powerset_Int64_Box *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Int64_Box.java.

References build_cpp_object().

11.100.2.4 parma_polyhedra_library::Pointset_Powerset_Int64_Box::Pointset_Powerset_Int64_Box (Int64_Box *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Int64_Box.java.

References build_cpp_object().

11.100.2.5 parma_polyhedra_library::Pointset_Powerset_Int64_Box::Pointset_Powerset_Int64_Box (Pointset_Powerset_Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Int64_Box.java.

References build_cpp_object().

11.100.2.6 parma_polyhedra_library::Pointset_Powerset_Int64_Box::Pointset_Powerset_Int64_Box (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Int64_Box.java.

References build_cpp_object().

11.100.2.7 parma_polyhedra_library::Pointset_Powerset_Int64_Box::Pointset_Powerset_Int64_Box (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Int64_Box.java.

References build_cpp_object().

11.100.2.8 parma_polyhedra_library::Pointset_Powerset_Int64_Box::Pointset_Powerset_Int64_Box (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Int64_Box.java.

References build_cpp_object().

11.100.3 Member Function Documentation

11.100.3.1 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::add_congruence (Congruence *c*)

11.100.3.2 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::add_congruences (Congruence_System *c*)

11.100.3.3 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::add_constraint (Constraint *c*)

11.100.3.4 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::add_constraints (Constraint_System *c*)

11.100.3.5 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::add_disjunct (Int64_Box *j_disj*)

11.100.3.6 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::add_space_dimensions_and_embed (long *m*)

11.100.3.7 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::add_space_dimensions_and_project (long *m*)

11.100.3.8 native long parma_polyhedra_library::Pointset_Powerset_Int64_Box::affine_dimension ()

11.100.3.9 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.100.3.10 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.100.3.11 native String parma_polyhedra_library::Pointset_Powerset_Int64_Box::ascii_dump ()

11.100.3.12 native Pointset_Powerset_Int64_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Int64_Box::begin_iterator ()

11.100.3.13 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.100.3.14 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.100.3.15 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::bounds_from_above (Linear_Expression *expr*)

11.100.3.16 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::bounds_from_below (Linear_Expression *expr*)

11.100.3.17 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.100.3.18 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::build_cpp_object (Int64_Box *y*) [private]

11.100.3.19 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::build_cpp_object (Pointset_Powerset_Int64_Box *y*, Complexity_Class *complexity*) [private]

11.100.3.20 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::build_cpp_object (Pointset_Powerset_Int64_Box *y*) [private]

11.100.3.21 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.100.3.22 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::build_cpp_object (Congruence_System *cs*) [private]

11.100.3.23 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Int64_Box().

11.100.3.24 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::concatenate_assign (Pointset_Powerset_Int64_Box *p*)

11.100.3.25 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::constrains (Variable *var*)

11.100.3.26 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::contains (Pointset_Powerset_Int64_Box *y*)

11.100.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::contains_integer_point ()

11.100.3.28 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::difference_assign (Pointset_Powerset_Int64_Box *p*)

11.100.3.29 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::drop_disjunct (Pointset_Powerset_Int64_Box_Iterator *itr*)

11.100.3.30 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::drop_disjuncts (Pointset_Powerset_Int64_Box_Iterator *itr1*, Pointset_Powerset_Int64_Box_Iterator *itr2*)

11.100.3.31 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.100.3.32 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.100.3.33 native Pointset_Powerset_Int64_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Int64_Box::end_iterator ()

11.100.3.34 boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_Int64_Box.java.

References equals().

11.100.3.35 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::equals (Pointset_Powerset_Int64_Box *p*)

Referenced by equals().

11.100.3.36 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::expand_space_dimension (Variable *var*, long *m*)

11.100.3.37 native long parma_polyhedra_library::Pointset_Powerset_Int64_Box::external_memory_in_bytes ()

11.100.3.38 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::finalize () `[protected]`

11.100.3.39 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.100.3.40 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::free ()

11.100.3.41 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.100.3.42 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.100.3.43 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.100.3.44 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.100.3.45 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::geometrically_covers (Pointset_Powerset_Int64_Box *y*)

11.100.3.46 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::geometrically_equals (Pointset_Powerset_Int64_Box *y*)

11.100.3.47 native int parma_polyhedra_library::Pointset_Powerset_Int64_Box::hashCode ()

11.100.3.48 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::intersection_assign (Pointset_Powerset_Int64_Box *p*)

11.100.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::is_bounded ()

11.100.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::is_discrete ()

11.100.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::is_disjoint_from (Pointset_Powerset_Int64_Box *y*)

11.100.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::is_empty ()

11.100.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::is_topologically_closed ()

11.100.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::is_universe ()

11.100.3.55 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::map_space_dimensions (Partial_Function *pfunc*)

11.100.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.100.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.100.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.100.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.100.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::OK ()

11.100.3.61 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::omega_reduce ()

11.100.3.62 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::pairwise_reduce ()

11.100.3.63 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::refine_with_congruence (Congruence *c*)

11.100.3.64 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::refine_with_congruences (Congruence_System *c*)

11.100.3.65 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::refine_with_constraint (Constraint *c*)

11.100.3.66 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::refine_with_constraints (Constraint_System *c*)

11.100.3.67 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Int64_-Box::relation_with (Congruence *c*)

11.100.3.68 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_Int64_-Box::relation_with (Generator *c*)

11.100.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Int64_-Box::relation_with (Constraint *c*)

11.100.3.70 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::remove_-higher_space_dimensions (long *new_dimension*)

11.100.3.71 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::remove_-space_dimensions (Variables_Set *vars*)

11.100.3.72 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_-Box::simplify_using_context_assign (Pointset_Powerset_Int64_Box *p*)

11.100.3.73 native long parma_polyhedra_library::Pointset_Powerset_Int64_Box::size ()

11.100.3.74 native long parma_polyhedra_library::Pointset_Powerset_Int64_Box::space_-dimension ()

11.100.3.75 native boolean parma_polyhedra_library::Pointset_Powerset_-Int64_Box::strictly_contains (Pointset_Powerset_Int64_Box *y*)

11.100.3.76 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::swap (Pointset_Powerset_Int64_Box *y*)

11.100.3.77 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::time_elapse_assign (Pointset_Powerset_Int64_Box *p*)

11.100.3.78 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::topological_closure_assign ()

11.100.3.79 native String parma_polyhedra_library::Pointset_Powerset_Int64_Box::toString ()

11.100.3.80 native long parma_polyhedra_library::Pointset_Powerset_Int64_Box::total_memory_in_bytes ()

11.100.3.81 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::unconstrain_space_dimension (Variable *var*)

11.100.3.82 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.100.3.83 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box::upper_bound_assign (Pointset_Powerset_Int64_Box *p*)

11.100.3.84 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box::upper_bound_assign_if_exact (Pointset_Powerset_Int64_Box *y*)

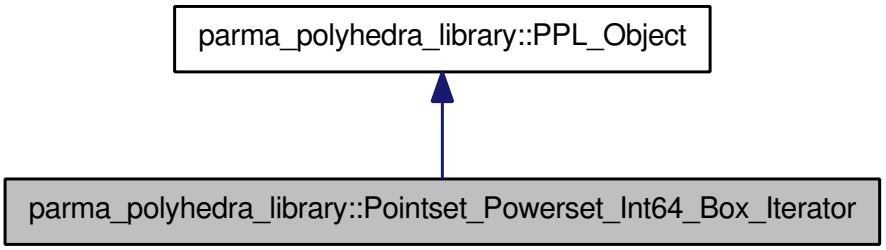
The documentation for this class was generated from the following file:

- Pointset_Powerset_Int64_Box.java

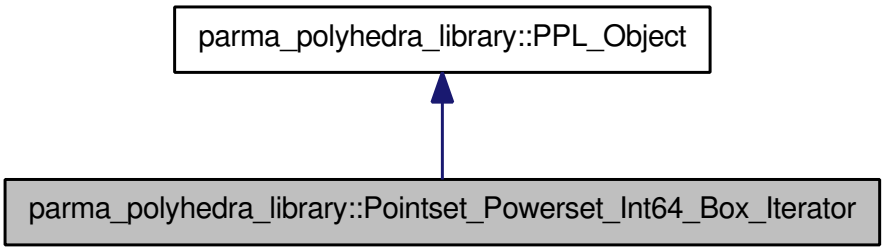
11.101 parma_polyhedra_library::Pointset_Powerset_Int64_Box_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int64_Box>:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Int64_Box_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Int64_Box_Iterator:



Public Member Functions

- Pointset_Powerset_Int64_Box_Iterator (Pointset_Powerset_Int64_Box_Iterator y)
- native boolean equals (Pointset_Powerset_Int64_Box_Iterator itr)
- native void next ()
- native void prev ()
- native Int64_Box get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Int64_Box_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Int64_Box obj)
- native void build_cpp_object (Pointset_Powerset_Int64_Box_Iterator y)

11.101.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int64_Box>:: iterator.

Definition at line 30 of file Pointset_Powerset_Int64_Box_Iterator.java.

11.101.2 Constructor & Destructor Documentation

11.101.2.1 parma_polyhedra_library::Pointset_Powerset_Int64_Box_Iterator::Pointset_Powerset_Int64_Box_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Int64_Box_Iterator.java.

11.101.2.2 parma_polyhedra_library::Pointset_Powerset_Int64_Box_Iterator::Pointset_Powerset_Int64_Box_Iterator (Pointset_Powerset_Int64_Box_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Int64_Box_Iterator.java.

References build_cpp_object().

11.101.3 Member Function Documentation

11.101.3.1 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box_Iterator::build_cpp_object (Pointset_Powerset_Int64_Box_Iterator *y*) [private]

Referenced by Pointset_Powerset_Int64_Box_Iterator().

11.101.3.2 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box_Iterator::build_ppl_object (Pointset_Powerset_Int64_Box *obj*) [private]

11.101.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Int64_Box_Iterator::equals (Pointset_Powerset_Int64_Box_Iterator *itr*)

11.101.3.4 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box_Iterator::finalize () [protected]

11.101.3.5 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box_Iterator::free ()

11.101.3.6 native Int64_Box parma_polyhedra_library::Pointset_Powerset_Int64_Box_Iterator::get_disjunct ()

11.101.3.7 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box_Iterator::next ()

11.101.3.8 native void parma_polyhedra_library::Pointset_Powerset_Int64_Box_Iterator::prev ()

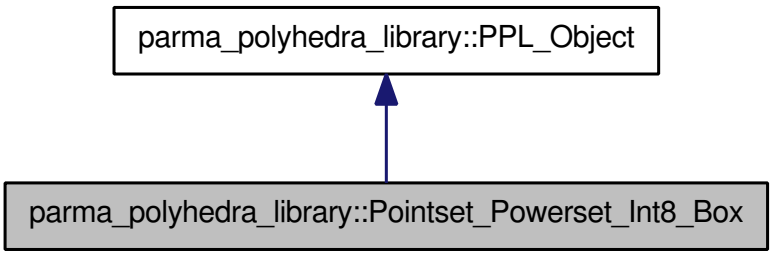
The documentation for this class was generated from the following file:

- Pointset_Powerset_Int64_Box_Iterator.java

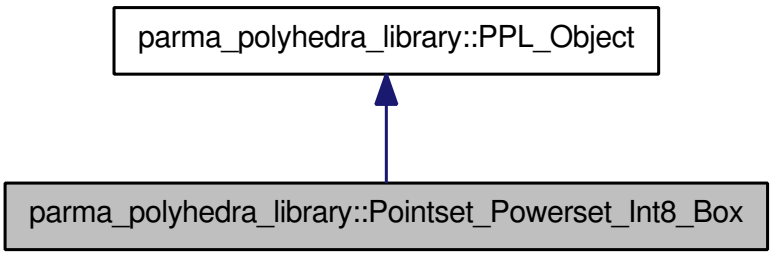
11.102 parma_polyhedra_library::Pointset_Powerset_Int8_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int8_Box>

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Int8_Box:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Int8_Box:



Public Member Functions

- Pointset_Powerset_Int8_Box (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Int8_Box (Pointset_Powerset_Int8_Box y)
- Pointset_Powerset_Int8_Box (Int8_Box y)
- Pointset_Powerset_Int8_Box (Pointset_Powerset_Int8_Box y, Complexity_Class complexity)
- Pointset_Powerset_Int8_Box (Int8_Box y, Complexity_Class complexity)
- Pointset_Powerset_Int8_Box (Constraint_System cs)
- Pointset_Powerset_Int8_Box (Congruence_System cs)
- native void swap (Pointset_Powerset_Int8_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Int8_Box y)
- native boolean strictly_contains (Pointset_Powerset_Int8_Box y)
- native boolean is_disjoint_from (Pointset_Powerset_Int8_Box y)
- native boolean geometrically_covers (Pointset_Powerset_Int8_Box y)
- native boolean geometrically_equals (Pointset_Powerset_Int8_Box y)
- native boolean equals (Pointset_Powerset_Int8_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Int8_Box p)

- native void upper_bound_assign (Pointset_Powerset_Int8_Box p)
- native void difference_assign (Pointset_Powerset_Int8_Box p)
- native void concatenate_assign (Pointset_Powerset_Int8_Box p)
- native void time_elapse_assign (Pointset_Powerset_Int8_Box p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Int8_Box y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Int8_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Int8_Box_Iterator begin_iterator ()
- native Pointset_Powerset_Int8_Box_Iterator end_iterator ()
- native void add_disjunct (Int8_Box j_disj)
- native void drop_disjunct (Pointset_Powerset_Int8_Box_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Int8_Box_Iterator itr1, Pointset_Powerset_Int8_Box_Iterator itr2)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Int8_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Int8_Box y)
- native void build_cpp_object (Pointset_Powerset_Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)

11.102.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int8_Box>

Definition at line 33 of file Pointset_Powerset_Int8_Box.java.

11.102.2 Constructor & Destructor Documentation

11.102.2.1 parma_polyhedra_library::Pointset_Powerset_Int8_Box::Pointset_Powerset_Int8_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Int8_Box.java.

References build_cpp_object().

11.102.2.2 parma_polyhedra_library::Pointset_Powerset_Int8_Box::Pointset_Powerset_Int8_Box () [inline, private]

Definition at line 45 of file Pointset_Powerset_Int8_Box.java.

11.102.2.3 parma_polyhedra_library::Pointset_Powerset_Int8_Box::Pointset_Powerset_Int8_Box (Pointset_Powerset_Int8_Box *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Int8_Box.java.

References build_cpp_object().

11.102.2.4 parma_polyhedra_library::Pointset_Powerset_Int8_Box::Pointset_Powerset_Int8_Box (Int8_Box *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Int8_Box.java.

References build_cpp_object().

11.102.2.5 parma_polyhedra_library::Pointset_Powerset_Int8_Box::Pointset_Powerset_Int8_Box (Pointset_Powerset_Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Int8_Box.java.

References build_cpp_object().

11.102.2.6 parma_polyhedra_library::Pointset_Powerset_Int8_Box::Pointset_Powerset_Int8_Box (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Int8_Box.java.

References build_cpp_object().

11.102.2.7 parma_polyhedra_library::Pointset_Powerset_Int8_Box::Pointset_Powerset_Int8_Box (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Int8_Box.java.

References build_cpp_object().

11.102.2.8 parma_polyhedra_library::Pointset_Powerset_Int8_Box::Pointset_Powerset_Int8_Box (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Int8_Box.java.

References build_cpp_object().

11.102.3 Member Function Documentation

11.102.3.1 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::add_congruence (Congruence *c*)

11.102.3.2 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::add_congruences (Congruence_System *c*)

11.102.3.3 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::add_constraint (Constraint *c*)

11.102.3.4 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::add_constraints (Constraint_System *c*)

11.102.3.5 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::add_disjunct (Int8_Box *j_disj*)

11.102.3.6 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::add_space_dimensions_and_embed (long *m*)

11.102.3.7 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::add_space_dimensions_and_project (long *m*)

11.102.3.8 native long parma_polyhedra_library::Pointset_Powerset_Int8_Box::affine_dimension ()

11.102.3.9 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.102.3.10 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.102.3.11 native String parma_polyhedra_library::Pointset_Powerset_Int8_Box::ascii_dump ()

11.102.3.12 native Pointset_Powerset_Int8_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Int8_Box::begin_iterator ()

11.102.3.13 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.102.3.14 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.102.3.15 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::bounds_from_above (Linear_Expression *expr*)

11.102.3.16 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::bounds_from_below (Linear_Expression *expr*)

11.102.3.17 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) `[private]`

11.102.3.18 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::build_cpp_object (Int8_Box *y*) `[private]`

11.102.3.19 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::build_cpp_object (Pointset_Powerset_Int8_Box *y*, Complexity_Class *complexity*) `[private]`

11.102.3.20 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::build_cpp_object (Pointset_Powerset_Int8_Box *y*) `[private]`

11.102.3.21 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.102.3.22 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::build_cpp_object (Congruence_System *cs*) [private]

11.102.3.23 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Int8_Box().

11.102.3.24 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::concatenate_assign (Pointset_Powerset_Int8_Box *p*)

11.102.3.25 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::constrains (Variable *var*)

11.102.3.26 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::contains (Pointset_Powerset_Int8_Box *y*)

11.102.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::contains_integer_point ()

11.102.3.28 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::difference_assign (Pointset_Powerset_Int8_Box *p*)

11.102.3.29 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::drop_disjunct (Pointset_Powerset_Int8_Box_Iterator *itr*)

11.102.3.30 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::drop_disjuncts (Pointset_Powerset_Int8_Box_Iterator *itr1*, Pointset_Powerset_Int8_Box_Iterator *itr2*)

11.102.3.31 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.102.3.32 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.102.3.33 native Pointset_Powerset_Int8_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Int8_Box::end_iterator ()

11.102.3.34 boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_Int8_Box.java.

References equals().

11.102.3.35 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::equals (Pointset_Powerset_Int8_Box *p*)

Referenced by equals().

11.102.3.36 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::expand_space_dimension (Variable *var*, long *m*)

11.102.3.37 native long parma_polyhedra_library::Pointset_Powerset_Int8_Box::external_memory_in_bytes ()

11.102.3.38 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::finalize () [protected]

11.102.3.39 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.102.3.40 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::free ()

11.102.3.41 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.102.3.42 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.102.3.43 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.102.3.44 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.102.3.45 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::geometrically_covers (Pointset_Powerset_Int8_Box *y*)

11.102.3.46 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::geometrically_equals (Pointset_Powerset_Int8_Box *y*)

11.102.3.47 native int parma_polyhedra_library::Pointset_Powerset_Int8_Box::hashCode ()

11.102.3.48 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::intersection_assign (Pointset_Powerset_Int8_Box *p*)

11.102.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::is_bounded ()

11.102.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::is_discrete ()

11.102.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::is_disjoint_from (Pointset_Powerset_Int8_Box *y*)

11.102.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::is_empty ()

11.102.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::is_topologically_closed ()

11.102.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::is_universe ()

11.102.3.55 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::map_space_dimensions (Partial_Function *pfunc*)

11.102.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.102.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.102.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.102.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.102.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::OK ()

11.102.3.61 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::omega_reduce ()

11.102.3.62 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::pairwise_reduce ()

11.102.3.63 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::refine_with_congruence (Congruence *c*)

11.102.3.64 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::refine_with_congruences (Congruence_System *c*)

11.102.3.65 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::refine_with_constraint (Constraint *c*)

11.102.3.66 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::refine_with_constraints (Constraint_System *c*)

11.102.3.67 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Int8_Box::relation_with (Congruence *c*)

11.102.3.68 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_Int8_Box::relation_with (Generator *c*)

11.102.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Int8_Box::relation_with (Constraint *c*)

11.102.3.70 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::remove_higher_space_dimensions (long *new_dimension*)

11.102.3.71 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::remove_space_dimensions (Variables_Set *vars*)

11.102.3.72 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::simplify_using_context_assign (Pointset_Powerset_Int8_Box *p*)

11.102.3.73 native long parma_polyhedra_library::Pointset_Powerset_Int8_Box::size ()

11.102.3.74 native long parma_polyhedra_library::Pointset_Powerset_Int8_Box::space_dimension ()

11.102.3.75 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::strictly_contains (Pointset_Powerset_Int8_Box *y*)

11.102.3.76 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::swap (Pointset_Powerset_Int8_Box *y*)

11.102.3.77 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::time_elapse_assign (Pointset_Powerset_Int8_Box *p*)

11.102.3.78 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::topological_closure_assign ()

11.102.3.79 native String parma_polyhedra_library::Pointset_Powerset_Int8_Box::toString ()

11.102.3.80 native long parma_polyhedra_library::Pointset_Powerset_Int8_Box::total_memory_in_bytes ()

11.102.3.81 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::unconstrain_space_dimension (Variable *var*)

11.102.3.82 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.102.3.83 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box::upper_bound_assign (Pointset_Powerset_Int8_Box *p*)

11.102.3.84 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box::upper_bound_assign_if_exact (Pointset_Powerset_Int8_Box *y*)

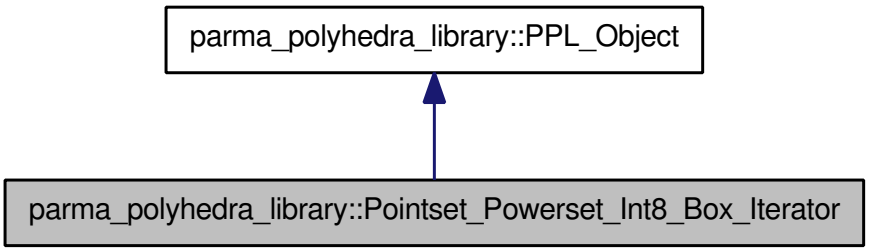
The documentation for this class was generated from the following file:

- Pointset_Powerset_Int8_Box.java

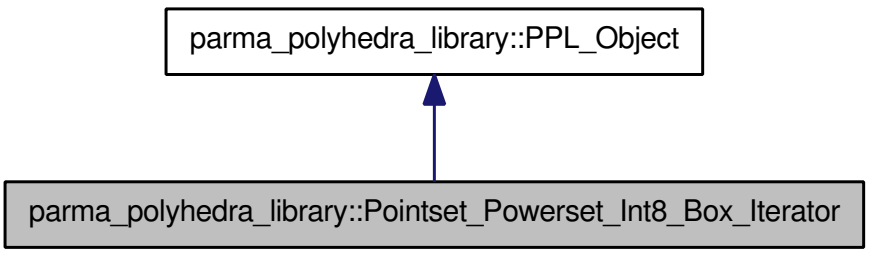
11.103 parma_polyhedra_library::Pointset_Powerset_Int8_Box_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int8_Box>:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Int8_Box_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Int8_Box_Iterator:



Public Member Functions

- Pointset_Powerset_Int8_Box_Iterator (Pointset_Powerset_Int8_Box_Iterator y)
- native boolean equals (Pointset_Powerset_Int8_Box_Iterator itr)
- native void next ()
- native void prev ()
- native Int8_Box get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Int8_Box_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Int8_Box obj)
- native void build_cpp_object (Pointset_Powerset_Int8_Box_Iterator y)

11.103.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int8_Box>:: iterator.

Definition at line 30 of file Pointset_Powerset_Int8_Box_Iterator.java.

11.103.2 Constructor & Destructor Documentation

11.103.2.1 parma_polyhedra_library::Pointset_Powerset_Int8_Box_Iterator::Pointset_Powerset_Int8_Box_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Int8_Box_Iterator.java.

11.103.2.2 parma_polyhedra_library::Pointset_Powerset_Int8_Box_Iterator::Pointset_Powerset_Int8_Box_Iterator (Pointset_Powerset_Int8_Box_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Int8_Box_Iterator.java.

References build_cpp_object().

11.103.3 Member Function Documentation

11.103.3.1 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box_Iterator::build_cpp_object (Pointset_Powerset_Int8_Box_Iterator *y*) [private]

Referenced by Pointset_Powerset_Int8_Box_Iterator().

11.103.3.2 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box_Iterator::build_ppl_object (Pointset_Powerset_Int8_Box *obj*) [private]

11.103.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Int8_Box_Iterator::equals (Pointset_Powerset_Int8_Box_Iterator *itr*)

11.103.3.4 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box_Iterator::finalize () [protected]

11.103.3.5 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box_Iterator::free ()

11.103.3.6 native Int8_Box parma_polyhedra_library::Pointset_Powerset_Int8_Box_-Iterator::get_disjunct ()

11.103.3.7 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box_Iterator::next ()

11.103.3.8 native void parma_polyhedra_library::Pointset_Powerset_Int8_Box_Iterator::prev ()

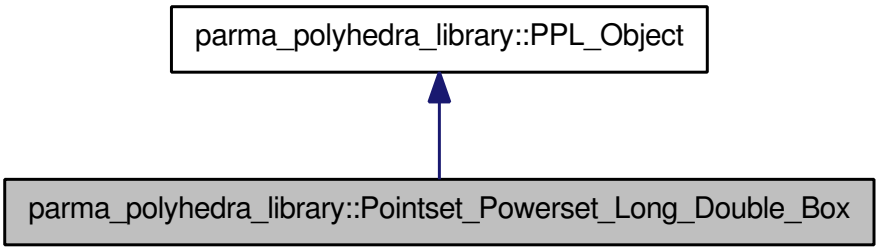
The documentation for this class was generated from the following file:

- Pointset_Powerset_Int8_Box_Iterator.java

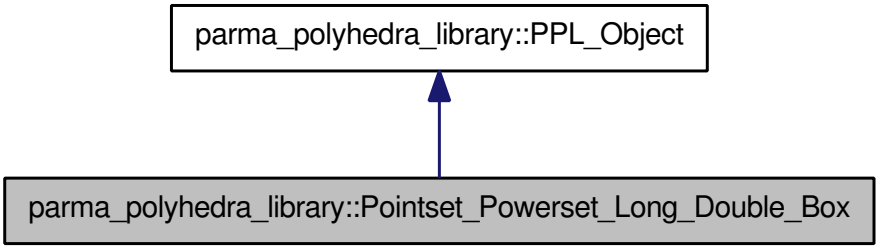
11.104 parma_polyhedra_library::Pointset_Powerset_Long_Double_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Long_Double_Box>

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Long_Double_Box:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Long_Double_Box:



Public Member Functions

- Pointset_Powerset_Long_Double_Box (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Long_Double_Box (Pointset_Powerset_Long_Double_Box y)
- Pointset_Powerset_Long_Double_Box (Long_Double_Box y)
- Pointset_Powerset_Long_Double_Box (Pointset_Powerset_Long_Double_Box y, Complexity_Class complexity)
- Pointset_Powerset_Long_Double_Box (Long_Double_Box y, Complexity_Class complexity)
- Pointset_Powerset_Long_Double_Box (Constraint_System cs)
- Pointset_Powerset_Long_Double_Box (Congruence_System cs)
- native void swap (Pointset_Powerset_Long_Double_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Long_Double_Box y)
- native boolean strictly_contains (Pointset_Powerset_Long_Double_Box y)
- native boolean is_disjoint_from (Pointset_Powerset_Long_Double_Box y)
- native boolean geometrically_covers (Pointset_Powerset_Long_Double_Box y)

- native boolean geometrically_equals (Pointset_Powerset_Long_Double_Box y)
- native boolean equals (Pointset_Powerset_Long_Double_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Long_Double_Box p)
- native void upper_bound_assign (Pointset_Powerset_Long_Double_Box p)
- native void difference_assign (Pointset_Powerset_Long_Double_Box p)
- native void concatenate_assign (Pointset_Powerset_Long_Double_Box p)
- native void time_elapse_assign (Pointset_Powerset_Long_Double_Box p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Long_Double_Box y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Long_Double_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Long_Double_Box_Iterator begin_iterator ()

- native Pointset_Powerset_Long_Double_Box_Iterator end_iterator ()
- native void add_disjunct (Long_Double_Box j_disj)
- native void drop_disjunct (Pointset_Powerset_Long_Double_Box_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Long_Double_Box_Iterator itr1, Pointset_Powerset_Long_Double_Box_Iterator itr2)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Long_Double_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Long_Double_Box y)
- native void build_cpp_object (Pointset_Powerset_Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)

11.104.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Long_Double_Box>

Definition at line 33 of file Pointset_Powerset_Long_Double_Box.java.

11.104.2 Constructor & Destructor Documentation

11.104.2.1 parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::Pointset_Powerset_Long_Double_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Long_Double_Box.java.

References build_cpp_object().

11.104.2.2 parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::Pointset_Powerset_Long_Double_Box () [inline, private]

Definition at line 45 of file Pointset_Powerset_Long_Double_Box.java.

11.104.2.3 parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::Pointset_Powerset_Long_Double_Box (Pointset_Powerset_Long_Double_Box *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Long_Double_Box.java.

References build_cpp_object().

11.104.2.4 parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::Pointset_Powerset_Long_Double_Box (Long_Double_Box *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Long_Double_Box.java.

References build_cpp_object().

11.104.2.5 parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::Pointset_Powerset_Long_Double_Box (Pointset_Powerset_Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Long_Double_Box.java.

References build_cpp_object().

11.104.2.6 parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::Pointset_Powerset_Long_Double_Box (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Long_Double_Box.java.

References build_cpp_object().

11.104.2.7 parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::Pointset_Powerset_Long_Double_Box (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Long_Double_Box.java.

References build_cpp_object().

11.104.2.8 parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::Pointset_Powerset_Long_Double_Box (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Long_Double_Box.java.

References build_cpp_object().

11.104.3 Member Function Documentation

11.104.3.1 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::add_congruence (Congruence *c*)

11.104.3.2 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::add_congruences (Congruence_System *c*)

11.104.3.3 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::add_constraint (Constraint *c*)

11.104.3.4 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::add_constraints (Constraint_System *c*)

11.104.3.5 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::add_disjunct (Long_Double_Box *j_disj*)

11.104.3.6 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::add_space_dimensions_and_embed (long *m*)

11.104.3.7 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::add_space_dimensions_and_project (long *m*)

11.104.3.8 native long parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::affine_dimension ()

11.104.3.9 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.104.3.10 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.104.3.11 native String parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::ascii_dump ()

11.104.3.12 native Pointset_Powerset_Long_Double_Box_Iterator parma_-polyhedra_library::Pointset_Powerset_Long_Double_Box::begin_iterator ()

11.104.3.13 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.104.3.14 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.104.3.15 native boolean parma_polyhedra_library::Pointset_Powerset_-Long_Double_Box::bounds_from_above (Linear_Expression *expr*)

11.104.3.16 native boolean parma_polyhedra_library::Pointset_Powerset_-Long_Double_Box::bounds_from_below (Linear_Expression *expr*)

11.104.3.17 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.104.3.18 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::build_cpp_object (Long_Double_Box *y*) [private]

11.104.3.19 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::build_cpp_object (Pointset_Powerset_Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.104.3.20 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::build_cpp_object (Pointset_Powerset_Long_Double_Box *y*) [private]

11.104.3.21 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.104.3.22 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::build_cpp_object (Congruence_System *cs*) [private]

11.104.3.23 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Long_Double_Box().

11.104.3.24 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::concatenate_assign (Pointset_Powerset_Long_Double_Box *p*)

11.104.3.25 native boolean parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::constrains (Variable *var*)

11.104.3.26 native boolean parma_polyhedra_library::Pointset_Powerset_-Long_Double_Box::contains (Pointset_Powerset_Long_Double_Box *y*)

11.104.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::contains_integer_point ()

11.104.3.28 native void parma_polyhedra_library::Pointset_Powerset_Long_-Double_Box::difference_assign (Pointset_Powerset_Long_Double_Box *p*)

11.104.3.29 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::drop_disjunct (Pointset_Powerset_Long_Double_Box_Iterator *itr*)

11.104.3.30 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::drop_disjuncts (Pointset_Powerset_Long_Double_Box_Iterator *itr1*, Pointset_Powerset_Long_Double_Box_Iterator *itr2*)

11.104.3.31 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::drop_-some_non_integer_points (Integer *complexity_threshold*)

11.104.3.32 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.104.3.33 native Pointset_Powerset_Long_Double_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::end_iterator ()

11.104.3.34 boolean parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_Long_Double_Box.java.

References equals().

11.104.3.35 native boolean parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::equals (Pointset_Powerset_Long_Double_Box *p*)

Referenced by equals().

11.104.3.36 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::expand_space_dimension (Variable *var*, long *m*)

11.104.3.37 native long parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::external_memory_in_bytes ()

11.104.3.38 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::finalize () `[protected]`

11.104.3.39 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.104.3.40 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::free ()

11.104.3.41 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.104.3.42 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.104.3.43 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.104.3.44 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.104.3.45 native boolean parma_polyhedra_library::Pointset_Powerset_Long_-Double_Box::geometrically_covers (Pointset_Powerset_Long_Double_Box *y*)

11.104.3.46 native boolean parma_polyhedra_library::Pointset_Powerset_Long_-Double_Box::geometrically_equals (Pointset_Powerset_Long_Double_Box *y*)

11.104.3.47 native int parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::hashCode ()

11.104.3.48 native void parma_polyhedra_library::Pointset_Powerset_Long_-Double_Box::intersection_assign (Pointset_Powerset_Long_Double_Box *p*)

11.104.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::is_bounded ()

11.104.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::is_discrete ()

11.104.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::is_disjoint_from (Pointset_Powerset_Long_Double_Box *y*)

11.104.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::is_empty ()

11.104.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::is_topologically_closed ()

11.104.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::is_universe ()

11.104.3.55 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::map_space_dimensions (Partial_Function *pfunc*)

11.104.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.104.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.104.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.104.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.104.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::OK ()

11.104.3.61 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::omega_reduce ()

11.104.3.62 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::pairwise_reduce ()

11.104.3.63 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::refine_with_congruence (Congruence *c*)

11.104.3.64 native void parma_polyhedra_library::Pointset_Powerset_Long_-Double_Box::refine_with_congruences (Congruence_System *c*)

11.104.3.65 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box::refine_with_constraint (Constraint *c*)

11.104.3.66 native void parma_polyhedra_library::Pointset_Powerset_-Long_Double_Box::refine_with_constraints (Constraint_System *c*)

11.104.3.67 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::relation_with (Congruence *c*)

11.104.3.68 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::relation_with (Generator *c*)

11.104.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::relation_with (Constraint *c*)

11.104.3.70 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::remove_higher_space_dimensions (long *new_dimension*)

11.104.3.71 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::remove_space_dimensions (Variables_Set *vars*)

11.104.3.72 native boolean parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::simplify_using_context_assign (Pointset_Powerset_Long_Double_Box *p*)

11.104.3.73 native long parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::size ()

11.104.3.74 native long parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::space_dimension ()

11.104.3.75 native boolean parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::strictly_contains (Pointset_Powerset_Long_Double_Box *y*)

11.104.3.76 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::swap (Pointset_Powerset_Long_Double_Box *y*)

11.104.3.77 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::time_elapse_assign (Pointset_Powerset_Long_Double_Box *p*)

11.104.3.78 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::topological_closure_assign ()

11.104.3.79 native String parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::toString ()

11.104.3.80 native long parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::total_memory_in_bytes ()

11.104.3.81 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::unconstrain_space_dimension (Variable *var*)

11.104.3.82 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.104.3.83 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::upper_bound_assign (Pointset_Powerset_Long_Double_Box *p*)

11.104.3.84 native boolean parma_polyhedra_library::Pointset_Powerset_Long_Double_Box::upper_bound_assign_if_exact (Pointset_Powerset_Long_Double_Box *y*)

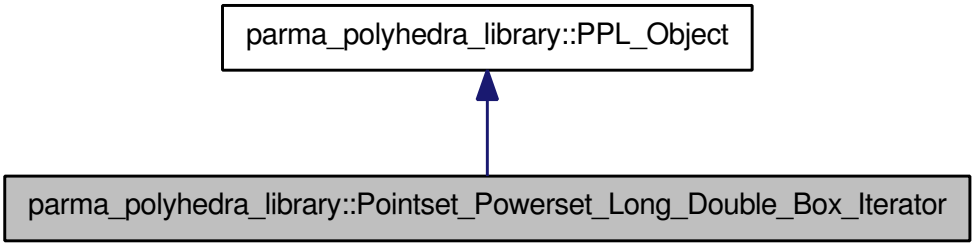
The documentation for this class was generated from the following file:

- Pointset_Powerset_Long_Double_Box.java

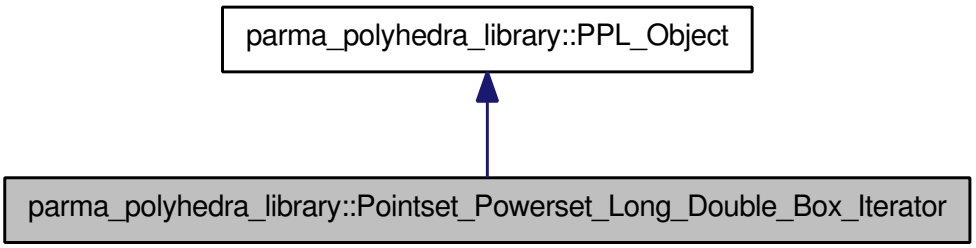
11.105 parma_polyhedra_library::Pointset_Powerset_Long_Double_Box_-Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Long_Double_Box>:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Long_Double_Box_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Long_Double_Box_Iterator:



Public Member Functions

- Pointset_Powerset_Long_Double_Box_Iterator (Pointset_Powerset_Long_Double_Box_Iterator y)
- native boolean equals (Pointset_Powerset_Long_Double_Box_Iterator itr)
- native void next ()
- native void prev ()
- native Long_Double_Box get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Long_Double_Box_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Long_Double_Box obj)
- native void build_cpp_object (Pointset_Powerset_Long_Double_Box_Iterator y)

11.105.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Long_Double_Box>:: iterator.

Definition at line 30 of file Pointset_Powerset_Long_Double_Box_Iterator.java.

11.105.2 Constructor & Destructor Documentation

11.105.2.1 parma_polyhedra_library::Pointset_Powerset_Long_Double_Box_-Iterator::Pointset_Powerset_Long_Double_Box_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Long_Double_Box_Iterator.java.

11.105.2.2 parma_polyhedra_library::Pointset_Powerset_Long_Double_Box_Iterator::Pointset_-Powerset_Long_Double_Box_Iterator (Pointset_Powerset_Long_Double_Box_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Long_Double_Box_Iterator.java.

References build_cpp_object().

11.105.3 Member Function Documentation

11.105.3.1 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box_-Iterator::build_cpp_object (Pointset_Powerset_Long_Double_Box_Iterator *y*) [private]

Referenced by Pointset_Powerset_Long_Double_Box_Iterator().

11.105.3.2 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_-Box_Iterator::build_ppl_object (Pointset_Powerset_Long_Double_Box *obj*) [private]

11.105.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Long_-Double_Box_Iterator::equals (Pointset_Powerset_Long_Double_Box_Iterator *itr*)

11.105.3.4 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box_-Iterator::finalize () [protected]

11.105.3.5 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box_-Iterator::free ()

11.105.3.6 native Long_Double_Box parma_polyhedra_library::Pointset_Powerset_Long_-Double_Box_Iterator::get_disjunct ()

11.105.3.7 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box_-Iterator::next ()

11.105.3.8 native void parma_polyhedra_library::Pointset_Powerset_Long_Double_Box_-Iterator::prev ()

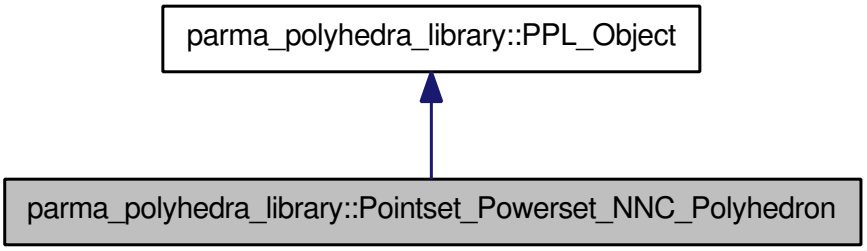
The documentation for this class was generated from the following file:

- Pointset_Powerset_Long_Double_Box_Iterator.java

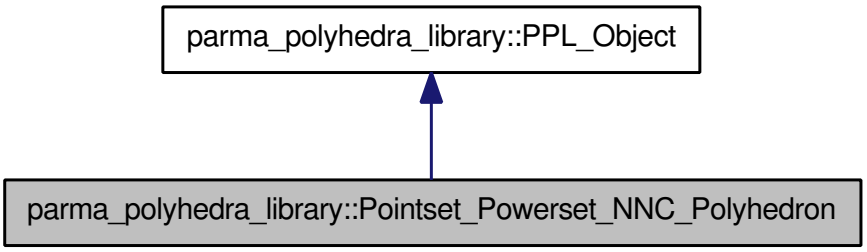
11.106 parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<NNC_Polyhedron>

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron:



Public Member Functions

- Pointset_Powerset_NNC_Polyhedron (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_NNC_Polyhedron (Pointset_Powerset_NNC_Polyhedron y)
- Pointset_Powerset_NNC_Polyhedron (NNC_Polyhedron y)
- Pointset_Powerset_NNC_Polyhedron (Pointset_Powerset_NNC_Polyhedron y, Complexity_Class complexity)
- Pointset_Powerset_NNC_Polyhedron (NNC_Polyhedron y, Complexity_Class complexity)
- Pointset_Powerset_NNC_Polyhedron (Constraint_System cs)
- Pointset_Powerset_NNC_Polyhedron (Congruence_System cs)
- native void swap (Pointset_Powerset_NNC_Polyhedron y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_NNC_Polyhedron y)
- native boolean strictly_contains (Pointset_Powerset_NNC_Polyhedron y)
- native boolean is_disjoint_from (Pointset_Powerset_NNC_Polyhedron y)

- native boolean geometrically_covers (Pointset_Powerset_NNC_Polyhedron y)
- native boolean geometrically_equals (Pointset_Powerset_NNC_Polyhedron y)
- native boolean equals (Pointset_Powerset_NNC_Polyhedron p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_NNC_Polyhedron p)
- native void upper_bound_assign (Pointset_Powerset_NNC_Polyhedron p)
- native void difference_assign (Pointset_Powerset_NNC_Polyhedron p)
- native void concatenate_assign (Pointset_Powerset_NNC_Polyhedron p)
- native void time_elapse_assign (Pointset_Powerset_NNC_Polyhedron p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_NNC_Polyhedron y)
- native boolean simplify_using_context_assign (Pointset_Powerset_NNC_Polyhedron p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()

- native Pointset_Powerset_NNC_Polyhedron_Iterator begin_iterator ()
- native Pointset_Powerset_NNC_Polyhedron_Iterator end_iterator ()
- native void add_disjunct (NNC_Polyhedron j_disj)
- native void drop_disjunct (Pointset_Powerset_NNC_Polyhedron_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_NNC_Polyhedron_Iterator itr1, Pointset_Powerset_NNC_Polyhedron_Iterator itr2)
- native void BHZ03_BHRZ03_BHRZ03_widening_assign (Pointset_Powerset_NNC_Polyhedron y)
- native void BHZ03_H79_H79_widening_assign (Pointset_Powerset_NNC_Polyhedron y)
- native void BGP99_BHRZ03_extrapolation_assign (Pointset_Powerset_NNC_Polyhedron y, Integer d)
- native void BGP99_H79_extrapolation_assign (Pointset_Powerset_NNC_Polyhedron y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_NNC_Polyhedron ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_NNC_Polyhedron y)
- native void build_cpp_object (Pointset_Powerset_NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)

11.106.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<NNC_Polyhedron>

Definition at line 33 of file Pointset_Powerset_NNC_Polyhedron.java.

11.106.2 Constructor & Destructor Documentation

11.106.2.1 parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::Pointset_Powerset_NNC_Polyhedron (long *num_dimensions*, Degenerate_Element *kind*) `[inline]`

Definition at line 40 of file Pointset_Powerset_NNC_Polyhedron.java.

References build_cpp_object().

11.106.2.2 parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::Pointset_Powerset_NNC_Polyhedron () [inline, private]

Definition at line 45 of file Pointset_Powerset_NNC_Polyhedron.java.

11.106.2.3 parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::Pointset_Powerset_NNC_Polyhedron (Pointset_Powerset_NNC_Polyhedron *y*) [inline]

Definition at line 52 of file Pointset_Powerset_NNC_Polyhedron.java.

References build_cpp_object().

11.106.2.4 parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::Pointset_Powerset_NNC_Polyhedron (NNC_Polyhedron *y*) [inline]

Definition at line 56 of file Pointset_Powerset_NNC_Polyhedron.java.

References build_cpp_object().

11.106.2.5 parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::Pointset_Powerset_NNC_Polyhedron (Pointset_Powerset_NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_NNC_Polyhedron.java.

References build_cpp_object().

11.106.2.6 parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::Pointset_Powerset_NNC_Polyhedron (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_NNC_Polyhedron.java.

References build_cpp_object().

11.106.2.7 parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::Pointset_Powerset_NNC_Polyhedron (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_NNC_Polyhedron.java.

References build_cpp_object().

11.106.2.8 parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::Pointset_Powerset_NNC_Polyhedron (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_NNC_Polyhedron.java.

References build_cpp_object().

11.106.3 Member Function Documentation

11.106.3.1 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::add_congruence (Congruence *c*)

11.106.3.2 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::add_congruences (Congruence_System *c*)

11.106.3.3 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::add_constraint (Constraint *c*)

11.106.3.4 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::add_constraints (Constraint_System *c*)

11.106.3.5 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::add_disjunct (NNC_Polyhedron *j_disj*)

11.106.3.6 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::add_space_dimensions_and_embed (long *m*)

11.106.3.7 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::add_space_dimensions_and_project (long *m*)

11.106.3.8 native long parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::affine_dimension ()

11.106.3.9 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.106.3.10 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.106.3.11 native String parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::ascii_dump ()

11.106.3.12 native Pointset_Powerset_NNC_Polyhedron_Iterator parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::begin_iterator ()

11.106.3.13 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::BGP99_BHRZ03_extrapolation_assign (Pointset_Powerset_NNC_Polyhedron *y*, Integer *d*)

11.106.3.14 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::BGP99_H79_extrapolation_assign (Pointset_Powerset_NNC_Polyhedron *y*, Integer *d*)

11.106.3.15 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::BHZ03_BHRZ03_BHRZ03_widening_assign (Pointset_Powerset_NNC_Polyhedron *y*)

11.106.3.16 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::BHZ03_H79_H79_widening_assign (Pointset_Powerset_NNC_Polyhedron *y*)

11.106.3.17 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.106.3.18 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.106.3.19 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::bounds_from_above (Linear_Expression *expr*)

11.106.3.20 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::bounds_from_below (Linear_Expression *expr*)

11.106.3.21 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) `[private]`

11.106.3.22 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::build_cpp_object (NNC_Polyhedron *y*) `[private]`

11.106.3.23 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::build_cpp_object (Pointset_Powerset_NNC_Polyhedron *y*, Complexity_Class *complexity*) `[private]`

11.106.3.24 native void parma_polyhedra_library::Pointset_Powerset_NNC_-Polyhedron::build_cpp_object (Pointset_Powerset_NNC_Polyhedron *y*) [private]

11.106.3.25 native void parma_polyhedra_library::Pointset_Powerset_NNC_-Polyhedron::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.106.3.26 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::build_-cpp_object (Congruence_System *cs*) [private]

11.106.3.27 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::build_-cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_NNC_Polyhedron().

11.106.3.28 native void parma_polyhedra_library::Pointset_Powerset_NNC_-Polyhedron::concatenate_assign (Pointset_Powerset_NNC_Polyhedron *p*)

11.106.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_-Polyhedron::constrains (Variable *var*)

11.106.3.30 native boolean parma_polyhedra_library::Pointset_Powerset_-NNC_Polyhedron::contains (Pointset_Powerset_NNC_Polyhedron *y*)

11.106.3.31 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_-Polyhedron::contains_integer_point ()

11.106.3.32 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::difference_assign (Pointset_Powerset_NNC_Polyhedron *p*)

11.106.3.33 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::drop_disjunct (Pointset_Powerset_NNC_Polyhedron_Iterator *itr*)

11.106.3.34 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::drop_disjuncts (Pointset_Powerset_NNC_Polyhedron_Iterator *itr1*, Pointset_Powerset_NNC_Polyhedron_Iterator *itr2*)

11.106.3.35 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::drop_some_non_integer_points (Integer *complexity_threshold*)

11.106.3.36 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.106.3.37 native Pointset_Powerset_NNC_Polyhedron_Iterator parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::end_iterator ()

11.106.3.38 boolean parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_NNC_Polyhedron.java.

References equals().

11.106.3.39 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::equals (Pointset_Powerset_NNC_Polyhedron *p*)

Referenced by equals().

11.106.3.40 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::expand_space_dimension (Variable *var*, long *m*)

11.106.3.41 native long parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::external_memory_in_bytes ()

11.106.3.42 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::finalize () `[protected]`

11.106.3.43 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.106.3.44 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::free ()

11.106.3.45 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.106.3.46 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.106.3.47 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.106.3.48 native void parma_polyhedra_library::Pointset_Powerset_NNC_-Polyhedron::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.106.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_-Polyhedron::geometrically_covers (Pointset_Powerset_NNC_Polyhedron *y*)

11.106.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_-Polyhedron::geometrically_equals (Pointset_Powerset_NNC_Polyhedron *y*)

11.106.3.51 native int parma_polyhedra_library::Pointset_Powerset_NNC_-Polyhedron::hashCode ()

11.106.3.52 native void parma_polyhedra_library::Pointset_Powerset_NNC_-Polyhedron::intersection_assign (Pointset_Powerset_NNC_Polyhedron *p*)

11.106.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::is_-bounded ()

11.106.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::is_-discrete ()

11.106.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_-Polyhedron::is_disjoint_from (Pointset_Powerset_NNC_Polyhedron *y*)

11.106.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::is_empty ()

11.106.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::is_topologically_closed ()

11.106.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::is_universe ()

11.106.3.59 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::map_space_dimensions (Partial_Function *pfunc*)

11.106.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.106.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.106.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.106.3.63 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.106.3.64 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::OK ()

11.106.3.65 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::omega_reduce ()

11.106.3.66 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::pairwise_reduce ()

11.106.3.67 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::refine_with_congruence (Congruence *c*)

11.106.3.68 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::refine_with_congruences (Congruence_System *c*)

11.106.3.69 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::refine_with_constraint (Constraint *c*)

11.106.3.70 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::refine_with_constraints (Constraint_System *c*)

11.106.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::relation_with (Congruence *c*)

11.106.3.72 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::relation_with (Generator *c*)

11.106.3.73 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::relation_with (Constraint *c*)

11.106.3.74 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::remove_higher_space_dimensions (long *new_dimension*)

11.106.3.75 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::remove_space_dimensions (Variables_Set *vars*)

11.106.3.76 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::simplify_using_context_assign (Pointset_Powerset_NNC_Polyhedron *p*)

11.106.3.77 native long parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::size ()

11.106.3.78 native long parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::space_dimension ()

11.106.3.79 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::strictly_contains (Pointset_Powerset_NNC_Polyhedron *y*)

11.106.3.80 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::swap (Pointset_Powerset_NNC_Polyhedron *y*)

11.106.3.81 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::time_elapse_assign (Pointset_Powerset_NNC_Polyhedron *p*)

11.106.3.82 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::topological_closure_assign ()

11.106.3.83 native String parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::toString ()

11.106.3.84 native long parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::total_memory_in_bytes ()

11.106.3.85 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::unconstrain_space_dimension (Variable *var*)

11.106.3.86 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::unconstrain_space_dimensions (Variables_Set *vars*)

11.106.3.87 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::upper_bound_assign (Pointset_Powerset_NNC_Polyhedron *p*)

11.106.3.88 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron::upper_bound_assign_if_exact (Pointset_Powerset_NNC_Polyhedron *y*)

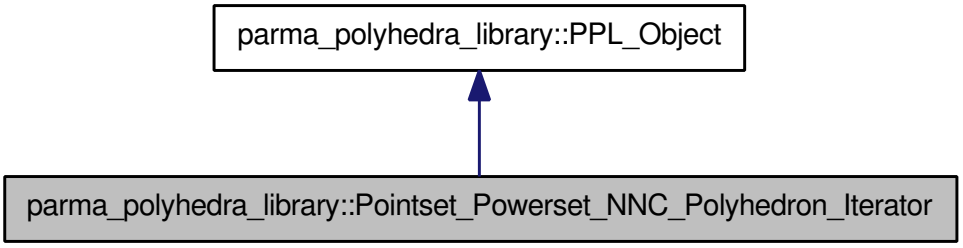
The documentation for this class was generated from the following file:

- Pointset_Powerset_NNC_Polyhedron.java

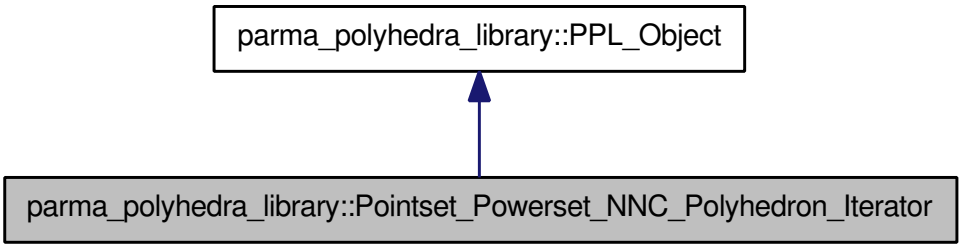
11.107 parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<NNC_Polyhedron>:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron_Iterator:



Public Member Functions

- Pointset_Powerset_NNC_Polyhedron_Iterator (Pointset_Powerset_NNC_Polyhedron_Iterator y)
- native boolean equals (Pointset_Powerset_NNC_Polyhedron_Iterator itr)
- native void next ()
- native void prev ()
- native NNC_Polyhedron get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_NNC_Polyhedron_Iterator ()
- native void build_ppl_object (Pointset_Powerset_NNC_Polyhedron obj)
- native void build_cpp_object (Pointset_Powerset_NNC_Polyhedron_Iterator y)

11.107.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<NNC_Polyhedron>:: iterator.

Definition at line 30 of file Pointset_Powerset_NNC_Polyhedron_Iterator.java.

11.107.2 Constructor & Destructor Documentation

11.107.2.1 parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron_-Iterator::Pointset_Powerset_NNC_Polyhedron_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_NNC_Polyhedron_Iterator.java.

11.107.2.2 parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron_Iterator::Pointset_-Powerset_NNC_Polyhedron_Iterator (Pointset_Powerset_NNC_Polyhedron_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_NNC_Polyhedron_Iterator.java.

References build_cpp_object().

11.107.3 Member Function Documentation

11.107.3.1 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron_-Iterator::build_cpp_object (Pointset_Powerset_NNC_Polyhedron_Iterator *y*) [private]

Referenced by Pointset_Powerset_NNC_Polyhedron_Iterator().

11.107.3.2 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron_-Iterator::build_ppl_object (Pointset_Powerset_NNC_Polyhedron *obj*) [private]

11.107.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_NNC_-Polyhedron_Iterator::equals (Pointset_Powerset_NNC_Polyhedron_Iterator *itr*)

11.107.3.4 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron_-Iterator::finalize () [protected]

11.107.3.5 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron_-Iterator::free ()

11.107.3.6 native NNC_Polyhedron parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron_Iterator::get_disjunct ()

11.107.3.7 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron_Iterator::next ()

11.107.3.8 native void parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron_Iterator::prev ()

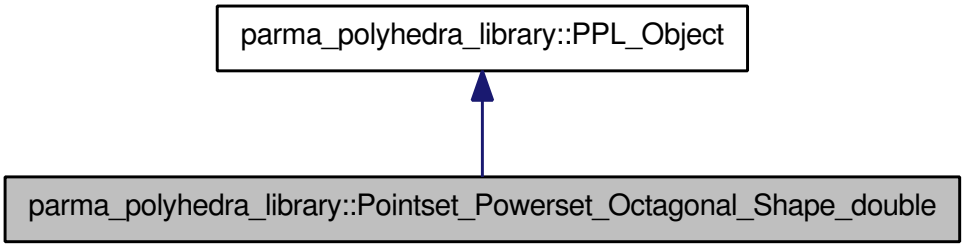
The documentation for this class was generated from the following file:

- Pointset_Powerset_NNC_Polyhedron_Iterator.java

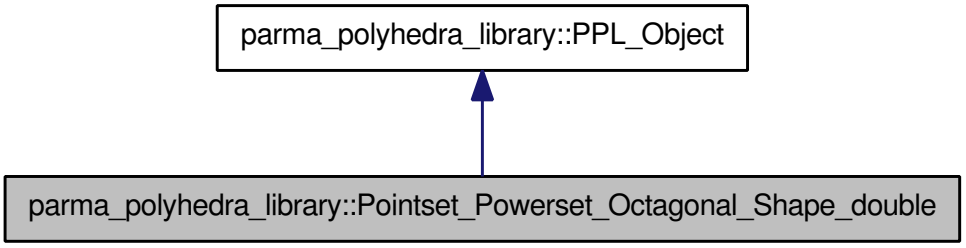
11.108 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<double> >

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double:



Public Member Functions

- Pointset_Powerset_Octagonal_Shape_double (long num_dimensions, Degenerate_Element kind)

- Pointset_Powerset_Octagonal_Shape_double (Pointset_Powerset_Octagonal_Shape_double y)
- Pointset_Powerset_Octagonal_Shape_double (Octagonal_Shape_double y)
- Pointset_Powerset_Octagonal_Shape_double (Pointset_Powerset_Octagonal_Shape_double y, Complexity_Class complexity)
- Pointset_Powerset_Octagonal_Shape_double (Octagonal_Shape_double y, Complexity_Class complexity)
- Pointset_Powerset_Octagonal_Shape_double (Constraint_System cs)
- Pointset_Powerset_Octagonal_Shape_double (Congruence_System cs)
- native void swap (Pointset_Powerset_Octagonal_Shape_double y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Octagonal_Shape_double y)
- native boolean strictly_contains (Pointset_Powerset_Octagonal_Shape_double y)
- native boolean is_disjoint_from (Pointset_Powerset_Octagonal_Shape_double y)
- native boolean geometrically_covers (Pointset_Powerset_Octagonal_Shape_double y)
- native boolean geometrically_equals (Pointset_Powerset_Octagonal_Shape_double y)
- native boolean equals (Pointset_Powerset_Octagonal_Shape_double p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Octagonal_Shape_double p)

- native void upper_bound_assign (Pointset_Powerset_Octagonal_Shape_double p)
- native void difference_assign (Pointset_Powerset_Octagonal_Shape_double p)
- native void concatenate_assign (Pointset_Powerset_Octagonal_Shape_double p)
- native void time_elapse_assign (Pointset_Powerset_Octagonal_Shape_double p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Octagonal_Shape_double y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Octagonal_Shape_double p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Octagonal_Shape_double_Iterator begin_iterator ()
- native Pointset_Powerset_Octagonal_Shape_double_Iterator end_iterator ()
- native void add_disjunct (Octagonal_Shape_double j_disj)
- native void drop_disjunct (Pointset_Powerset_Octagonal_Shape_double_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Octagonal_Shape_double_Iterator itr1, Pointset_-Powerset_Octagonal_Shape_double_Iterator itr2)
- native void BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_Octagonal_Shape_-double y)
- native void BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_Octagonal_Shape_double y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Octagonal_Shape_double ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_double y)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)

11.108.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<double> >

Definition at line 33 of file Pointset_Powerset_Octagonal_Shape_double.java.

11.108.2 Constructor & Destructor Documentation

11.108.2.1 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::Pointset_Powerset_Octagonal_Shape_double (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Octagonal_Shape_double.java.

References build_cpp_object().

11.108.2.2 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::Pointset_Powerset_Octagonal_Shape_double () [inline, private]

Definition at line 45 of file Pointset_Powerset_Octagonal_Shape_double.java.

11.108.2.3 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::Pointset_Powerset_Octagonal_Shape_double (Pointset_Powerset_Octagonal_Shape_double *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Octagonal_Shape_double.java.

References build_cpp_object().

11.108.2.4 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::Pointset_Powerset_Octagonal_Shape_double (Octagonal_Shape_double *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Octagonal_Shape_double.java.

References build_cpp_object().

11.108.2.5 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::Pointset_-Powerset_Octagonal_Shape_double (Pointset_Powerset_Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Octagonal_Shape_double.java.

References build_cpp_object().

11.108.2.6 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::Pointset_-Powerset_Octagonal_Shape_double (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Octagonal_Shape_double.java.

References build_cpp_object().

11.108.2.7 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::Pointset_Powerset_Octagonal_Shape_double (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Octagonal_Shape_double.java.

References build_cpp_object().

11.108.2.8 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::Pointset_Powerset_Octagonal_Shape_double (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Octagonal_Shape_double.java.

References build_cpp_object().

11.108.3 Member Function Documentation

11.108.3.1 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::add_congruence (Congruence *c*)

11.108.3.2 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::add_congruences (Congruence_System *c*)

11.108.3.3 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::add_constraint (Constraint *c*)

11.108.3.4 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::add_constraints (Constraint_System *c*)

11.108.3.5 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_double::add_disjunct (Octagonal_Shape_double *j_disj*)

11.108.3.6 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_double::add_space_dimensions_and_embed (long *m*)

11.108.3.7 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_double::add_space_dimensions_and_project (long *m*)

11.108.3.8 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::affine_dimension ()

11.108.3.9 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.108.3.10 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.108.3.11 native String parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::ascii_dump ()

11.108.3.12 native Pointset_Powerset_Octagonal_Shape_double_Iterator parma_-polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::begin_iterator ()

11.108.3.13 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_double::BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_Octagonal_Shape_double *y*, Integer *d*)

11.108.3.14 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_double::BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_Octagonal_Shape_double *y*)

11.108.3.15 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.108.3.16 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.108.3.17 native boolean parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_double::bounds_from_above (Linear_Expression *expr*)

11.108.3.18 native boolean parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_double::bounds_from_below (Linear_Expression *expr*)

11.108.3.19 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.108.3.20 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_double::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.108.3.21 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::build_cpp_object (Pointset_Powerset_Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.108.3.22 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::build_cpp_object (Pointset_Powerset_Octagonal_Shape_double *y*) [private]

11.108.3.23 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.108.3.24 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_double::build_cpp_object (Congruence_System *cs*) [private]

11.108.3.25 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Octagonal_Shape_double().

11.108.3.26 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::concatenate_assign (Pointset_Powerset_Octagonal_Shape_double *p*)

11.108.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::constrains (Variable *var*)

11.108.3.28 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::contains (Pointset_Powerset_Octagonal_Shape_double *y*)

11.108.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::contains_integer_point ()

11.108.3.30 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::difference_assign (Pointset_Powerset_Octagonal_Shape_double *p*)

11.108.3.31 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::drop_disjunct (Pointset_Powerset_Octagonal_Shape_double_Iterator *itr*)

11.108.3.32 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::drop_disjuncts (Pointset_Powerset_Octagonal_Shape_double_Iterator *itr1*, Pointset_Powerset_Octagonal_Shape_double_Iterator *itr2*)

11.108.3.33 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_double::drop_some_non_integer_points (Integer *complexity_threshold*)

11.108.3.34 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.108.3.35 native Pointset_Powerset_Octagonal_Shape_double_Iterator parma_-polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::end_iterator ()

11.108.3.36 boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_Octagonal_Shape_double.java.

References equals().

11.108.3.37 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_double::equals (Pointset_Powerset_Octagonal_Shape_double *p*)

Referenced by equals().

11.108.3.38 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_double::expand_space_dimension (Variable *var*, long *m*)

11.108.3.39 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::external_memory_in_bytes ()

11.108.3.40 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::finalize () `[protected]`

11.108.3.41 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.108.3.42 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::free ()

11.108.3.43 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.108.3.44 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.108.3.45 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.108.3.46 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.108.3.47 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::geometrically_covers (Pointset_Powerset_Octagonal_Shape_double *y*)

11.108.3.48 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::geometrically_equals (Pointset_Powerset_Octagonal_Shape_double *y*)

11.108.3.49 native int parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::hashCode ()

11.108.3.50 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::intersection_assign (Pointset_Powerset_Octagonal_Shape_double *p*)

11.108.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::is_bounded ()

11.108.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::is_discrete ()

11.108.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_double::is_disjoint_from (Pointset_Powerset_Octagonal_Shape_double *y*)

11.108.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::is_empty ()

11.108.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::is_topologically_closed ()

11.108.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::is_universe ()

11.108.3.57 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_double::map_space_dimensions (Partial_Function *pfunc*)

11.108.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.108.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.108.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.108.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.108.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::OK ()

11.108.3.63 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::omega_reduce ()

11.108.3.64 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::pairwise_reduce ()

11.108.3.65 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_double::refine_with_congruence (Congruence *c*)

11.108.3.66 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_double::refine_with_congruences (Congruence_System *c*)

11.108.3.67 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::refine_with_constraint (Constraint *c*)

11.108.3.68 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_double::refine_with_constraints (Constraint_System *c*)

11.108.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_double::relation_with (Congruence *c*)

11.108.3.70 native Poly_Gen_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_double::relation_with (Generator *c*)

11.108.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_double::relation_with (Constraint *c*)

11.108.3.72 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_double::remove_higher_space_dimensions (long *new_dimension*)

11.108.3.73 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_double::remove_space_dimensions (Variables_Set *vars*)

11.108.3.74 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::simplify_using_context_assign (Pointset_Powerset_Octagonal_Shape_double *p*)

11.108.3.75 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::size ()

11.108.3.76 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::space_dimension ()

11.108.3.77 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::strictly_contains (Pointset_Powerset_Octagonal_Shape_double *y*)

11.108.3.78 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::swap (Pointset_Powerset_Octagonal_Shape_double *y*)

11.108.3.79 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::time_elapse_assign (Pointset_Powerset_Octagonal_Shape_double *p*)

11.108.3.80 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::topological_closure_assign ()

11.108.3.81 native String parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::toString ()

11.108.3.82 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double::total_memory_in_bytes ()

11.108.3.83 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_double::unconstrain_space_dimension (Variable *var*)

11.108.3.84 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_double::unconstrain_space_dimensions (Variables_Set *vars*)

11.108.3.85 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::upper_bound_assign (Pointset_Powerset_Octagonal_Shape_double *p*)

11.108.3.86 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double::upper_bound_assign_if_exact (Pointset_Powerset_Octagonal_Shape_double *y*)

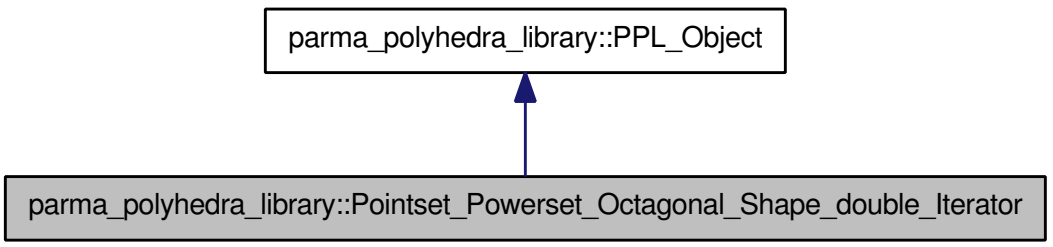
The documentation for this class was generated from the following file:

- Pointset_Powerset_Octagonal_Shape_double.java

11.109 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double_Iterator Class Reference

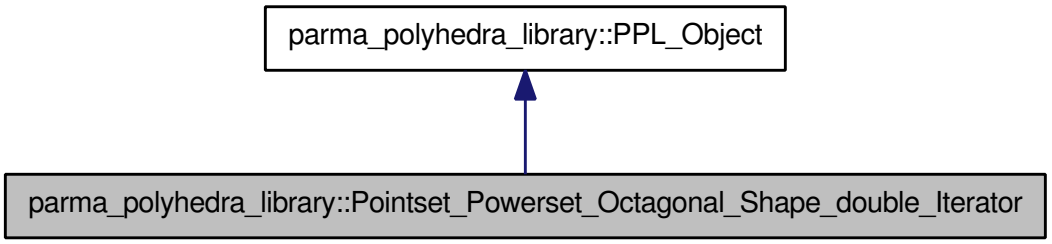
Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<double> >:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double_-

Iterator:



Public Member Functions

- Pointset_Powerset_Octagonal_Shape_double_Iterator (Pointset_Powerset_Octagonal_Shape_double_Iterator y)
- native boolean equals (Pointset_Powerset_Octagonal_Shape_double_Iterator itr)
- native void next ()
- native void prev ()
- native Octagonal_Shape_double get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Octagonal_Shape_double_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Octagonal_Shape_double obj)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_double_Iterator y)

11.109.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<double> >:: iterator.

Definition at line 30 of file Pointset_Powerset_Octagonal_Shape_double_Iterator.java.

11.109.2 Constructor & Destructor Documentation

11.109.2.1 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double_Iterator::Pointset_Powerset_Octagonal_Shape_double_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Octagonal_Shape_double_Iterator.java.

11.109.2.2 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double_Iterator::Pointset_Powerset_Octagonal_Shape_double_Iterator (Pointset_Powerset_Octagonal_Shape_double_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Octagonal_Shape_double_Iterator.java.

References build_cpp_object().

11.109.3 Member Function Documentation

11.109.3.1 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double_-Iterator::build_cpp_object (Pointset_Powerset_Octagonal_Shape_double_Iterator *y*) [private]

Referenced by Pointset_Powerset_Octagonal_Shape_double_Iterator().

11.109.3.2 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double_Iterator::build_ppl_object (Pointset_Powerset_Octagonal_Shape_double *obj*) [private]

11.109.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-double_Iterator::equals (Pointset_Powerset_Octagonal_Shape_double_Iterator *itr*)

11.109.3.4 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double_-Iterator::finalize () [protected]

11.109.3.5 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double_-Iterator::free ()

11.109.3.6 native Octagonal_Shape_double parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_double_Iterator::get_disjunct ()

11.109.3.7 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double_-Iterator::next ()

11.109.3.8 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double_-Iterator::prev ()

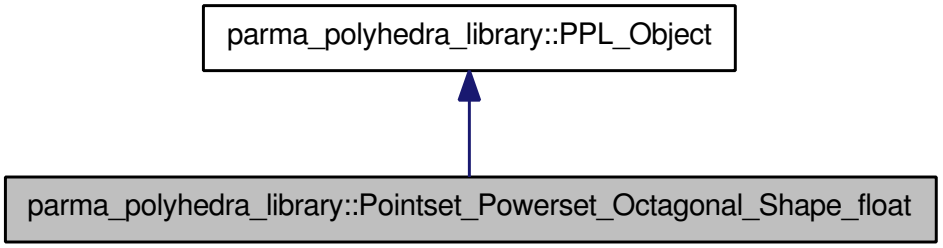
The documentation for this class was generated from the following file:

- Pointset_Powerset_Octagonal_Shape_double_Iterator.java

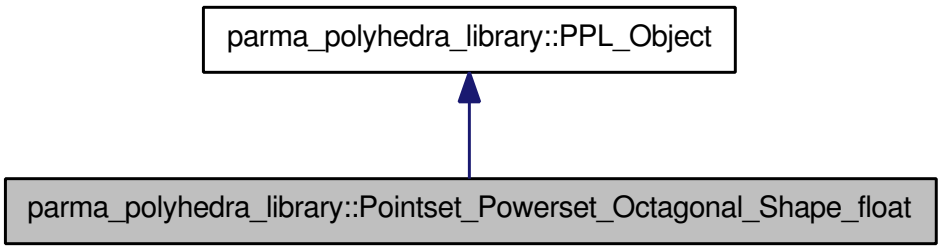
11.110 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<float> >

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float:



Public Member Functions

- Pointset_Powerset_Octagonal_Shape_float (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Octagonal_Shape_float (Pointset_Powerset_Octagonal_Shape_float y)
- Pointset_Powerset_Octagonal_Shape_float (Octagonal_Shape_float y)
- Pointset_Powerset_Octagonal_Shape_float (Pointset_Powerset_Octagonal_Shape_float y, Complexity_Class complexity)

- Pointset_Powerset_Octagonal_Shape_float (Octagonal_Shape_float y, Complexity_Class complexity)
- Pointset_Powerset_Octagonal_Shape_float (Constraint_System cs)
- Pointset_Powerset_Octagonal_Shape_float (Congruence_System cs)
- native void swap (Pointset_Powerset_Octagonal_Shape_float y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Octagonal_Shape_float y)
- native boolean strictly_contains (Pointset_Powerset_Octagonal_Shape_float y)
- native boolean is_disjoint_from (Pointset_Powerset_Octagonal_Shape_float y)
- native boolean geometrically_covers (Pointset_Powerset_Octagonal_Shape_float y)
- native boolean geometrically_equals (Pointset_Powerset_Octagonal_Shape_float y)
- native boolean equals (Pointset_Powerset_Octagonal_Shape_float p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Octagonal_Shape_float p)
- native void upper_bound_assign (Pointset_Powerset_Octagonal_Shape_float p)
- native void difference_assign (Pointset_Powerset_Octagonal_Shape_float p)
- native void concatenate_assign (Pointset_Powerset_Octagonal_Shape_float p)
- native void time_elapse_assign (Pointset_Powerset_Octagonal_Shape_float p)

- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Octagonal_Shape_float y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Octagonal_Shape_float p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Octagonal_Shape_float_Iterator begin_iterator ()
- native Pointset_Powerset_Octagonal_Shape_float_Iterator end_iterator ()
- native void add_disjunct (Octagonal_Shape_float j_disj)
- native void drop_disjunct (Pointset_Powerset_Octagonal_Shape_float_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Octagonal_Shape_float_Iterator itr1, Pointset_-Powerset_Octagonal_Shape_float_Iterator itr2)
- native void BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_Octagonal_Shape_float y)
- native void BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_Octagonal_Shape_float y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Octagonal_Shape_float ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_float y)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)

11.110.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<float> >

Definition at line 33 of file Pointset_Powerset_Octagonal_Shape_float.java.

11.110.2 Constructor & Destructor Documentation

11.110.2.1 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::Pointset_Powerset_Octagonal_Shape_float (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Octagonal_Shape_float.java.

References build_cpp_object().

11.110.2.2 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::Pointset_Powerset_Octagonal_Shape_float () [inline, private]

Definition at line 45 of file Pointset_Powerset_Octagonal_Shape_float.java.

11.110.2.3 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::Pointset_Powerset_Octagonal_Shape_float (Pointset_Powerset_Octagonal_Shape_float *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Octagonal_Shape_float.java.

References build_cpp_object().

11.110.2.4 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::Pointset_Powerset_Octagonal_Shape_float (Octagonal_Shape_float *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Octagonal_Shape_float.java.

References build_cpp_object().

11.110.2.5 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::Pointset_Powerset_Octagonal_Shape_float (Pointset_Powerset_Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Octagonal_Shape_float.java.

References build_cpp_object().

11.110.2.6 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::Pointset_Powerset_Octagonal_Shape_float (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Octagonal_Shape_float.java.

References build_cpp_object().

11.110.2.7 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::Pointset_Powerset_Octagonal_Shape_float (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Octagonal_Shape_float.java.

References build_cpp_object().

11.110.2.8 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::Pointset_Powerset_Octagonal_Shape_float (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Octagonal_Shape_float.java.

References build_cpp_object().

11.110.3 Member Function Documentation

11.110.3.1 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::add_congruence (Congruence *c*)

11.110.3.2 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::add_congruences (Congruence_System *c*)

11.110.3.3 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::add_constraint (Constraint *c*)

11.110.3.4 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::add_constraints (Constraint_System *c*)

11.110.3.5 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::add_disjunct (Octagonal_Shape_float *j_disj*)

11.110.3.6 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::add_space_dimensions_and_embed (long *m*)

11.110.3.7 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::add_space_dimensions_and_project (long *m*)

11.110.3.8 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::affine_dimension ()

11.110.3.9 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.110.3.10 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.110.3.11 native String parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::ascii_dump ()

11.110.3.12 native Pointset_Powerset_Octagonal_Shape_float_Iterator parma_-polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::begin_iterator ()

11.110.3.13 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_float::BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_Octagonal_Shape_float *y*, Integer *d*)

11.110.3.14 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_float::BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_Octagonal_Shape_float *y*)

11.110.3.15 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.110.3.16 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.110.3.17 native boolean parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_float::bounds_from_above (Linear_Expression *expr*)

11.110.3.18 native boolean parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_float::bounds_from_below (Linear_Expression *expr*)

11.110.3.19 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.110.3.20 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.110.3.21 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::build_cpp_object (Pointset_Powerset_Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.110.3.22 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::build_cpp_object (Pointset_Powerset_Octagonal_Shape_float *y*) [private]

11.110.3.23 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.110.3.24 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::build_cpp_object (Congruence_System *cs*) [private]

11.110.3.25 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Octagonal_Shape_float().

11.110.3.26 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::concatenate_assign (Pointset_Powerset_Octagonal_Shape_float *p*)

11.110.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::constrains (Variable *var*)

11.110.3.28 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::contains (Pointset_Powerset_Octagonal_Shape_float *y*)

11.110.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::contains_integer_point ()

11.110.3.30 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::difference_assign (Pointset_Powerset_Octagonal_Shape_float *p*)

11.110.3.31 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::drop_disjunct (Pointset_Powerset_Octagonal_Shape_float_Iterator *itr*)

11.110.3.32 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::drop_disjuncts (Pointset_Powerset_Octagonal_Shape_float_Iterator *itr1*, Pointset_Powerset_Octagonal_Shape_float_Iterator *itr2*)

11.110.3.33 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::drop_some_non_integer_points (Integer *complexity_threshold*)

11.110.3.34 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.110.3.35 native Pointset_Powerset_Octagonal_Shape_float_Iterator parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::end_iterator ()

11.110.3.36 boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_Octagonal_Shape_float.java.

References equals().

11.110.3.37 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::equals (Pointset_Powerset_Octagonal_Shape_float *p*)

Referenced by equals().

11.110.3.38 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::expand_space_dimension (Variable *var*, long *m*)

11.110.3.39 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::external_memory_in_bytes ()

11.110.3.40 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::finalize () `[protected]`

11.110.3.41 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.110.3.42 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::free ()

11.110.3.43 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.110.3.44 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.110.3.45 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.110.3.46 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.110.3.47 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_float::geometrically_covers (Pointset_Powerset_Octagonal_Shape_float *y*)

11.110.3.48 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_float::geometrically_equals (Pointset_Powerset_Octagonal_Shape_float *y*)

11.110.3.49 native int parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::hashCode ()

11.110.3.50 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_float::intersection_assign (Pointset_Powerset_Octagonal_Shape_float *p*)

11.110.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::is_bounded ()

11.110.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::is_discrete ()

11.110.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_float::is_disjoint_from (Pointset_Powerset_Octagonal_Shape_float *y*)

11.110.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::is_empty ()

11.110.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::is_topologically_closed ()

11.110.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::is_universe ()

11.110.3.57 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_float::map_space_dimensions (Partial_Function *pfunc*)

11.110.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.110.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.110.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.110.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.110.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::OK ()

11.110.3.63 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::omega_reduce ()

11.110.3.64 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::pairwise_reduce ()

11.110.3.65 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::refine_with_congruence (Congruence *c*)

11.110.3.66 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_float::refine_with_congruences (Congruence_System *c*)

11.110.3.67 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::refine_with_constraint (Constraint *c*)

11.110.3.68 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_float::refine_with_constraints (Constraint_System *c*)

11.110.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_float::relation_with (Congruence *c*)

11.110.3.70 native Poly_Gen_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_float::relation_with (Generator *c*)

11.110.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_float::relation_with (Constraint *c*)

11.110.3.72 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_float::remove_higher_space_dimensions (long *new_dimension*)

11.110.3.73 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_float::remove_space_dimensions (Variables_Set *vars*)

11.110.3.74 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::simplify_using_context_assign (Pointset_Powerset_Octagonal_Shape_float *p*)

11.110.3.75 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::size ()

11.110.3.76 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::space_dimension ()

11.110.3.77 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::strictly_contains (Pointset_Powerset_Octagonal_Shape_float *y*)

11.110.3.78 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::swap (Pointset_Powerset_Octagonal_Shape_float *y*)

11.110.3.79 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::time_elapse_assign (Pointset_Powerset_Octagonal_Shape_float *p*)

11.110.3.80 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::topological_closure_assign ()

11.110.3.81 native String parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::toString ()

11.110.3.82 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::total_memory_in_bytes ()

11.110.3.83 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::unconstrain_space_dimension (Variable *var*)

11.110.3.84 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float::unconstrain_space_dimensions (Variables_Set *vars*)

11.110.3.85 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::upper_bound_assign (Pointset_Powerset_Octagonal_Shape_float *p*)

11.110.3.86 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float::upper_bound_assign_if_exact (Pointset_Powerset_Octagonal_Shape_float *y*)

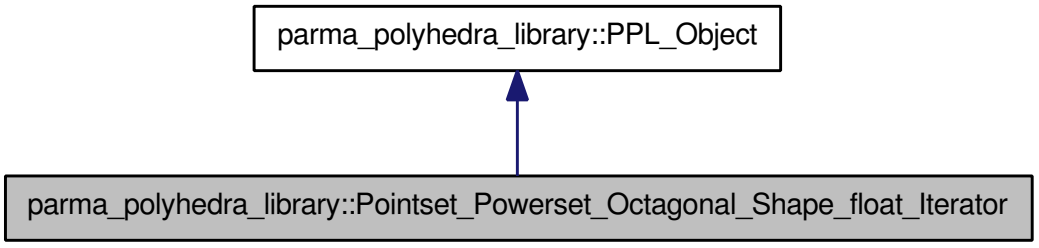
The documentation for this class was generated from the following file:

- Pointset_Powerset_Octagonal_Shape_float.java

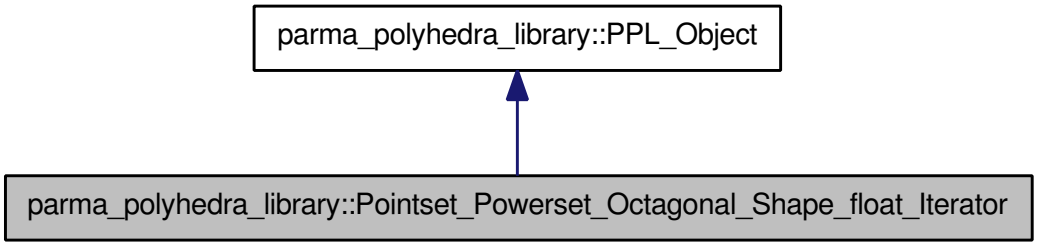
11.111 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float_-Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<float> >:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float_Iterator:



Public Member Functions

- Pointset_Powerset_Octagonal_Shape_float_Iterator (Pointset_Powerset_Octagonal_Shape_float_-Iterator y)
- native boolean equals (Pointset_Powerset_Octagonal_Shape_float_Iterator itr)

- native void next ()
- native void prev ()
- native Octagonal_Shape_float get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Octagonal_Shape_float_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Octagonal_Shape_float obj)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_float_Iterator y)

11.111.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<float> >:: iterator.

Definition at line 30 of file Pointset_Powerset_Octagonal_Shape_float_Iterator.java.

11.111.2 Constructor & Destructor Documentation

11.111.2.1 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float_-Iterator::Pointset_Powerset_Octagonal_Shape_float_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Octagonal_Shape_float_Iterator.java.

11.111.2.2 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-float_Iterator::Pointset_Powerset_Octagonal_Shape_float_Iterator (Pointset_Powerset_Octagonal_Shape_float_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Octagonal_Shape_float_Iterator.java.

References build_cpp_object().

11.111.3 Member Function Documentation

11.111.3.1 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float_-Iterator::build_cpp_object (Pointset_Powerset_Octagonal_Shape_float_Iterator *y*) [private]

Referenced by Pointset_Powerset_Octagonal_Shape_float_Iterator().

11.111.3.2 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float_Iterator::build_ppl_object (Pointset_Powerset_Octagonal_Shape_float *obj*) [private]

11.111.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float_Iterator::equals (Pointset_Powerset_Octagonal_Shape_float_Iterator *itr*)

11.111.3.4 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float_Iterator::finalize () [protected]

11.111.3.5 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float_Iterator::free ()

11.111.3.6 native Octagonal_Shape_float parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float_Iterator::get_disjunct ()

11.111.3.7 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float_Iterator::next ()

11.111.3.8 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float_Iterator::prev ()

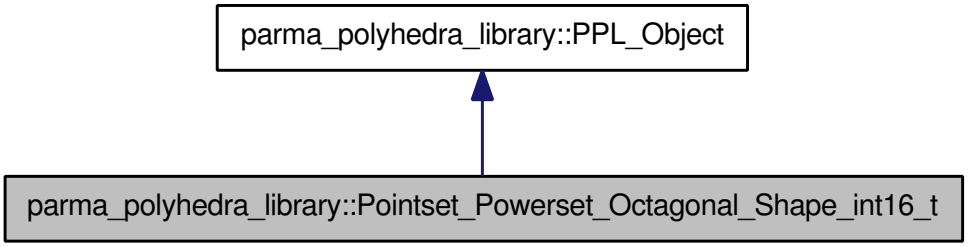
The documentation for this class was generated from the following file:

- Pointset_Powerset_Octagonal_Shape_float_Iterator.java

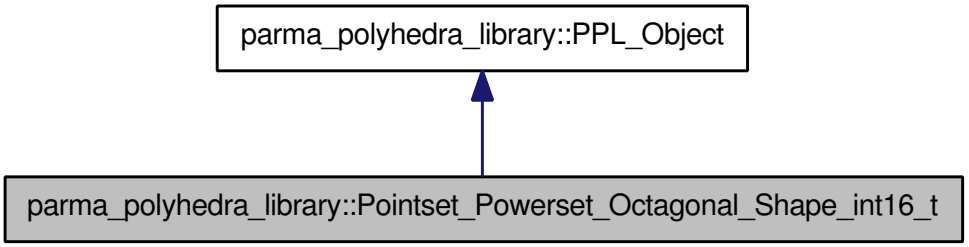
11.112 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int16_t> >

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t:



Public Member Functions

- Pointset_Powerset_Octagonal_Shape_int16_t (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Octagonal_Shape_int16_t (Pointset_Powerset_Octagonal_Shape_int16_t y)
- Pointset_Powerset_Octagonal_Shape_int16_t (Octagonal_Shape_int16_t y)
- Pointset_Powerset_Octagonal_Shape_int16_t (Pointset_Powerset_Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Pointset_Powerset_Octagonal_Shape_int16_t (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Pointset_Powerset_Octagonal_Shape_int16_t (Constraint_System cs)
- Pointset_Powerset_Octagonal_Shape_int16_t (Congruence_System cs)
- native void swap (Pointset_Powerset_Octagonal_Shape_int16_t y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)

- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Octagonal_Shape_int16_t y)
- native boolean strictly_contains (Pointset_Powerset_Octagonal_Shape_int16_t y)
- native boolean is_disjoint_from (Pointset_Powerset_Octagonal_Shape_int16_t y)
- native boolean geometrically_covers (Pointset_Powerset_Octagonal_Shape_int16_t y)
- native boolean geometrically_equals (Pointset_Powerset_Octagonal_Shape_int16_t y)
- native boolean equals (Pointset_Powerset_Octagonal_Shape_int16_t p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Octagonal_Shape_int16_t p)
- native void upper_bound_assign (Pointset_Powerset_Octagonal_Shape_int16_t p)
- native void difference_assign (Pointset_Powerset_Octagonal_Shape_int16_t p)
- native void concatenate_assign (Pointset_Powerset_Octagonal_Shape_int16_t p)
- native void time_elapse_assign (Pointset_Powerset_Octagonal_Shape_int16_t p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Octagonal_Shape_int16_t y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Octagonal_Shape_int16_t p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)

- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Octagonal_Shape_int16_t_Iterator begin_iterator ()
- native Pointset_Powerset_Octagonal_Shape_int16_t_Iterator end_iterator ()
- native void add_disjunct (Octagonal_Shape_int16_t j_disj)
- native void drop_disjunct (Pointset_Powerset_Octagonal_Shape_int16_t_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Octagonal_Shape_int16_t_Iterator itr1, Pointset_Powerset_Octagonal_Shape_int16_t_Iterator itr2)
- native void BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_Octagonal_Shape_int16_t y)
- native void BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_Octagonal_Shape_int16_t y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Octagonal_Shape_int16_t ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_int16_t y)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)

11.112.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int16_t> >

Definition at line 33 of file Pointset_Powerset_Octagonal_Shape_int16_t.java.

11.112.2 Constructor & Destructor Documentation

11.112.2.1 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::Pointset_Powerset_Octagonal_Shape_int16_t (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.112.2.2 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::Pointset_Powerset_Octagonal_Shape_int16_t () [inline, private]

Definition at line 45 of file Pointset_Powerset_Octagonal_Shape_int16_t.java.

11.112.2.3 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::Pointset_Powerset_Octagonal_Shape_int16_t (Pointset_Powerset_Octagonal_Shape_int16_t *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.112.2.4 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::Pointset_Powerset_Octagonal_Shape_int16_t (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.112.2.5 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::Pointset_Powerset_Octagonal_Shape_int16_t (Pointset_Powerset_Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.112.2.6 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::Pointset_Powerset_Octagonal_Shape_int16_t (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.112.2.7 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::Pointset_Powerset_Octagonal_Shape_int16_t (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.112.2.8 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::Pointset_Powerset_Octagonal_Shape_int16_t (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Octagonal_Shape_int16_t.java.

References build_cpp_object().

11.112.3 Member Function Documentation

11.112.3.1 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::add_congruence (Congruence *c*)

11.112.3.2 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::add_congruences (Congruence_System *c*)

11.112.3.3 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::add_constraint (Constraint *c*)

11.112.3.4 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::add_constraints (Constraint_System *c*)

11.112.3.5 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::add_disjunct (Octagonal_Shape_int16_t *j_disj*)

11.112.3.6 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int16_t::add_space_dimensions_and_embed (long *m*)

11.112.3.7 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int16_t::add_space_dimensions_and_project (long *m*)

11.112.3.8 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_-t::affine_dimension ()

11.112.3.9 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.112.3.10 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.112.3.11 native String parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::ascii_dump ()

11.112.3.12 native Pointset_Powerset_Octagonal_Shape_int16_t_Iterator parma_-polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::begin_iterator ()

11.112.3.13 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int16_t::BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_Octagonal_Shape_int16_t *y*, Integer *d*)

11.112.3.14 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int16_t::BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_Octagonal_Shape_int16_t *y*)

11.112.3.15 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.112.3.16 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.112.3.17 native boolean parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int16_t::bounds_from_above (Linear_Expression *expr*)

11.112.3.18 native boolean parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int16_t::bounds_from_below (Linear_Expression *expr*)

11.112.3.19 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_-t::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) `[private]`

11.112.3.20 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int16_t::build_cpp_object (Octagonal_Shape_int16_t *y*) `[private]`

11.112.3.21 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::build_cpp_object (Pointset_Powerset_Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) `[private]`

11.112.3.22 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::build_cpp_object (Pointset_Powerset_Octagonal_Shape_int16_t *y*) [private]

11.112.3.23 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.112.3.24 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int16_t::build_cpp_object (Congruence_System *cs*) [private]

11.112.3.25 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int16_t::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Octagonal_Shape_int16_t().

11.112.3.26 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::concatenate_assign (Pointset_Powerset_Octagonal_Shape_int16_t *p*)

11.112.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::constrains (Variable *var*)

11.112.3.28 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int16_t::contains (Pointset_Powerset_Octagonal_Shape_int16_t *y*)

11.112.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::contains_integer_point ()

11.112.3.30 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::difference_assign (Pointset_Powerset_Octagonal_Shape_int16_t *p*)

11.112.3.31 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::drop_disjunct (Pointset_Powerset_Octagonal_Shape_int16_t_Iterator *itr*)

11.112.3.32 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::drop_disjuncts (Pointset_Powerset_Octagonal_Shape_int16_t_Iterator *itr1*, Pointset_Powerset_Octagonal_Shape_int16_t_Iterator *itr2*)

11.112.3.33 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int16_t::drop_some_non_integer_points (Integer *complexity_threshold*)

11.112.3.34 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.112.3.35 native Pointset_Powerset_Octagonal_Shape_int16_t_Iterator parma_-polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::end_iterator ()

11.112.3.36 boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_-t::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_Octagonal_Shape_int16_t.java.

References equals().

11.112.3.37 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int16_t::equals (Pointset_Powerset_Octagonal_Shape_int16_t *p*)

Referenced by equals().

11.112.3.38 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::expand_space_dimension (Variable *var*, long *m*)

11.112.3.39 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::external_memory_in_bytes ()

11.112.3.40 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::finalize () `[protected]`

11.112.3.41 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.112.3.42 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::free ()

11.112.3.43 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.112.3.44 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.112.3.45 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.112.3.46 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.112.3.47 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::geometrically_covers (Pointset_Powerset_Octagonal_Shape_int16_t *y*)

11.112.3.48 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::geometrically_equals (Pointset_Powerset_Octagonal_Shape_int16_t *y*)

11.112.3.49 native int parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_-t::hashCode ()

11.112.3.50 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::intersection_assign (Pointset_Powerset_Octagonal_Shape_int16_t *p*)

11.112.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::is_bounded ()

11.112.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::is_discrete ()

11.112.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int16_t::is_disjoint_from (Pointset_Powerset_Octagonal_Shape_int16_t *y*)

11.112.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::is_empty ()

11.112.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::is_topologically_closed ()

11.112.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::is_universe ()

11.112.3.57 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int16_t::map_space_dimensions (Partial_Function *pfunc*)

11.112.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.112.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.112.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.112.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.112.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::OK ()

11.112.3.63 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_-t::omega_reduce ()

11.112.3.64 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_-t::pairwise_reduce ()

11.112.3.65 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int16_t::refine_with_congruence (Congruence *c*)

11.112.3.66 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int16_t::refine_with_congruences (Congruence_System *c*)

11.112.3.67 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_-t::refine_with_constraint (Constraint *c*)

11.112.3.68 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int16_t::refine_with_constraints (Constraint_System *c*)

11.112.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_int16_t::relation_with (Congruence *c*)

11.112.3.70 native Poly_Gen_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_int16_t::relation_with (Generator *c*)

11.112.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_int16_t::relation_with (Constraint *c*)

11.112.3.72 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int16_t::remove_higher_space_dimensions (long *new_dimension*)

11.112.3.73 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int16_t::remove_space_dimensions (Variables_Set *vars*)

11.112.3.74 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int16_t::simplify_using_context_assign (Pointset_Powerset_Octagonal_Shape_int16_t *p*)

11.112.3.75 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_-t::size ()

11.112.3.76 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_-t::space_dimension ()

11.112.3.77 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int16_t::strictly_contains (Pointset_Powerset_Octagonal_Shape_int16_t *y*)

11.112.3.78 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::swap (Pointset_Powerset_Octagonal_Shape_int16_t *y*)

11.112.3.79 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::time_elapse_assign (Pointset_Powerset_Octagonal_Shape_int16_t *p*)

11.112.3.80 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::topological_closure_assign ()

11.112.3.81 native String parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::toString ()

11.112.3.82 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::total_memory_in_bytes ()

11.112.3.83 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::unconstrain_space_dimension (Variable *var*)

11.112.3.84 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::unconstrain_space_dimensions (Variables_Set *vars*)

11.112.3.85 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::upper_bound_assign (Pointset_Powerset_Octagonal_Shape_int16_t *p*)

11.112.3.86 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t::upper_bound_assign_if_exact (Pointset_Powerset_Octagonal_Shape_int16_t *y*)

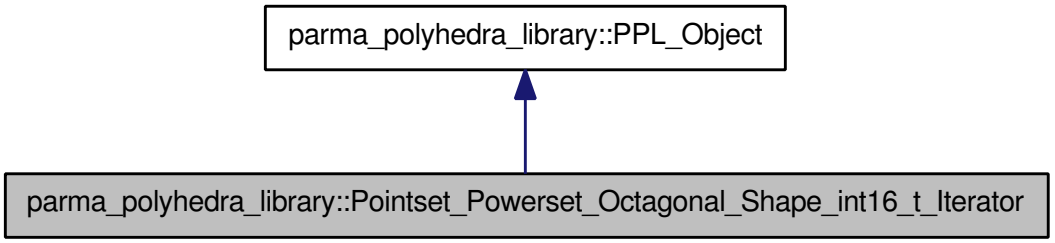
The documentation for this class was generated from the following file:

- Pointset_Powerset_Octagonal_Shape_int16_t.java

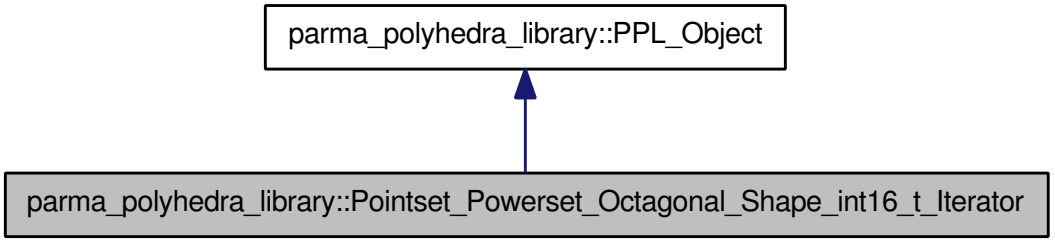
11.113 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int16_t> >:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t_Iterator:



Public Member Functions

- Pointset_Powerset_Octagonal_Shape_int16_t_Iterator (Pointset_Powerset_Octagonal_Shape_int16_t_Iterator y)
- native boolean equals (Pointset_Powerset_Octagonal_Shape_int16_t_Iterator itr)
- native void next ()
- native void prev ()
- native Octagonal_Shape_int16_t get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Octagonal_Shape_int16_t_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Octagonal_Shape_int16_t obj)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_int16_t_Iterator y)

11.113.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int16_t> >:: iterator.

Definition at line 30 of file Pointset_Powerset_Octagonal_Shape_int16_t_Iterator.java.

11.113.2 Constructor & Destructor Documentation

11.113.2.1 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t_Iterator::Pointset_Powerset_Octagonal_Shape_int16_t_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Octagonal_Shape_int16_t_Iterator.java.

11.113.2.2 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t_Iterator::Pointset_Powerset_Octagonal_Shape_int16_t_Iterator (Pointset_Powerset_Octagonal_Shape_int16_t_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Octagonal_Shape_int16_t_Iterator.java.

References build_cpp_object().

11.113.3 Member Function Documentation

11.113.3.1 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t_Iterator::build_cpp_object (Pointset_Powerset_Octagonal_Shape_int16_t_Iterator *y*) [private]

Referenced by Pointset_Powerset_Octagonal_Shape_int16_t_Iterator().

11.113.3.2 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t_Iterator::build_ppl_object (Pointset_Powerset_Octagonal_Shape_int16_t *obj*) [private]

11.113.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t_Iterator::equals (Pointset_Powerset_Octagonal_Shape_int16_t_Iterator *itr*)

11.113.3.4 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t_Iterator::finalize () [protected]

11.113.3.5 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t_Iterator::free ()

11.113.3.6 native Octagonal_Shape_int16_t parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t_Iterator::get_disjunct ()

11.113.3.7 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t_Iterator::next ()

11.113.3.8 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t_Iterator::prev ()

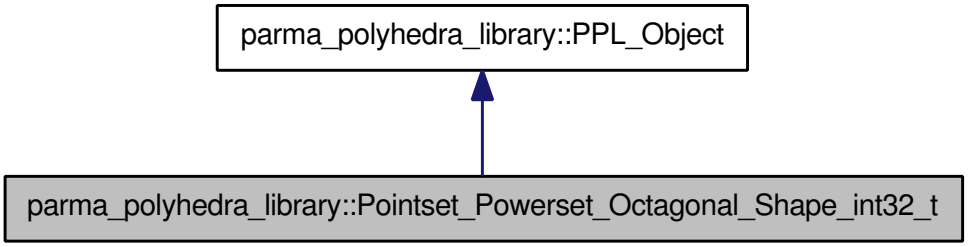
The documentation for this class was generated from the following file:

- Pointset_Powerset_Octagonal_Shape_int16_t_Iterator.java

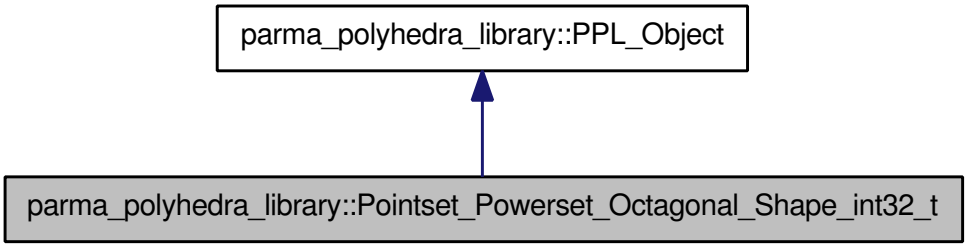
11.114 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int32_t> >

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t:



Public Member Functions

- Pointset_Powerset_Octagonal_Shape_int32_t (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Octagonal_Shape_int32_t (Pointset_Powerset_Octagonal_Shape_int32_t y)
- Pointset_Powerset_Octagonal_Shape_int32_t (Octagonal_Shape_int32_t y)
- Pointset_Powerset_Octagonal_Shape_int32_t (Pointset_Powerset_Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Pointset_Powerset_Octagonal_Shape_int32_t (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Pointset_Powerset_Octagonal_Shape_int32_t (Constraint_System cs)
- Pointset_Powerset_Octagonal_Shape_int32_t (Congruence_System cs)
- native void swap (Pointset_Powerset_Octagonal_Shape_int32_t y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)

- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Octagonal_Shape_int32_t y)
- native boolean strictly_contains (Pointset_Powerset_Octagonal_Shape_int32_t y)
- native boolean is_disjoint_from (Pointset_Powerset_Octagonal_Shape_int32_t y)
- native boolean geometrically_covers (Pointset_Powerset_Octagonal_Shape_int32_t y)
- native boolean geometrically_equals (Pointset_Powerset_Octagonal_Shape_int32_t y)
- native boolean equals (Pointset_Powerset_Octagonal_Shape_int32_t p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Octagonal_Shape_int32_t p)
- native void upper_bound_assign (Pointset_Powerset_Octagonal_Shape_int32_t p)
- native void difference_assign (Pointset_Powerset_Octagonal_Shape_int32_t p)
- native void concatenate_assign (Pointset_Powerset_Octagonal_Shape_int32_t p)
- native void time_elapse_assign (Pointset_Powerset_Octagonal_Shape_int32_t p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Octagonal_Shape_int32_t y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Octagonal_Shape_int32_t p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)

- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Octagonal_Shape_int32_t_Iterator begin_iterator ()
- native Pointset_Powerset_Octagonal_Shape_int32_t_Iterator end_iterator ()
- native void add_disjunct (Octagonal_Shape_int32_t j_disj)
- native void drop_disjunct (Pointset_Powerset_Octagonal_Shape_int32_t_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Octagonal_Shape_int32_t_Iterator itr1, Pointset_Powerset_Octagonal_Shape_int32_t_Iterator itr2)
- native void BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_Octagonal_Shape_int32_t y)
- native void BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_Octagonal_Shape_int32_t y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Octagonal_Shape_int32_t ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_int32_t y)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)

11.114.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int32_t> >

Definition at line 33 of file Pointset_Powerset_Octagonal_Shape_int32_t.java.

11.114.2 Constructor & Destructor Documentation

11.114.2.1 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::Pointset_Powerset_Octagonal_Shape_int32_t (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.114.2.2 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::Pointset_Powerset_Octagonal_Shape_int32_t () [inline, private]

Definition at line 45 of file Pointset_Powerset_Octagonal_Shape_int32_t.java.

11.114.2.3 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::Pointset_Powerset_Octagonal_Shape_int32_t (Pointset_Powerset_Octagonal_Shape_int32_t *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.114.2.4 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::Pointset_Powerset_Octagonal_Shape_int32_t (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.114.2.5 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::Pointset_Powerset_Octagonal_Shape_int32_t (Pointset_Powerset_Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.114.2.6 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::Pointset_Powerset_Octagonal_Shape_int32_t (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.114.2.7 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::Pointset_Powerset_Octagonal_Shape_int32_t (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.114.2.8 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::Pointset_Powerset_Octagonal_Shape_int32_t (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Octagonal_Shape_int32_t.java.

References build_cpp_object().

11.114.3 Member Function Documentation

11.114.3.1 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::add_congruence (Congruence *c*)

11.114.3.2 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::add_congruences (Congruence_System *c*)

11.114.3.3 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::add_constraint (Constraint *c*)

11.114.3.4 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::add_constraints (Constraint_System *c*)

11.114.3.5 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::add_disjunct (Octagonal_Shape_int32_t *j_disj*)

11.114.3.6 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int32_t::add_space_dimensions_and_embed (long *m*)

11.114.3.7 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int32_t::add_space_dimensions_and_project (long *m*)

11.114.3.8 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_-t::affine_dimension ()

11.114.3.9 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.114.3.10 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.114.3.11 native String parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::ascii_dump ()

11.114.3.12 native Pointset_Powerset_Octagonal_Shape_int32_t_Iterator parma_-polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::begin_iterator ()

11.114.3.13 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int32_t::BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_Octagonal_Shape_int32_t *y*, Integer *d*)

11.114.3.14 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int32_t::BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_Octagonal_Shape_int32_t *y*)

11.114.3.15 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.114.3.16 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.114.3.17 native boolean parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int32_t::bounds_from_above (Linear_Expression *expr*)

11.114.3.18 native boolean parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int32_t::bounds_from_below (Linear_Expression *expr*)

11.114.3.19 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_-t::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.114.3.20 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int32_t::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.114.3.21 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::build_cpp_object (Pointset_Powerset_Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.114.3.22 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::build_cpp_object (Pointset_Powerset_Octagonal_Shape_int32_t *y*) [private]

11.114.3.23 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.114.3.24 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int32_t::build_cpp_object (Congruence_System *cs*) [private]

11.114.3.25 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int32_t::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Octagonal_Shape_int32_t().

11.114.3.26 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::concatenate_assign (Pointset_Powerset_Octagonal_Shape_int32_t *p*)

11.114.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::constrains (Variable *var*)

11.114.3.28 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int32_t::contains (Pointset_Powerset_Octagonal_Shape_int32_t *y*)

11.114.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::contains_integer_point ()

11.114.3.30 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::difference_assign (Pointset_Powerset_Octagonal_Shape_int32_t *p*)

11.114.3.31 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::drop_disjunct (Pointset_Powerset_Octagonal_Shape_int32_t_Iterator *itr*)

11.114.3.32 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::drop_disjuncts (Pointset_Powerset_Octagonal_Shape_int32_t_Iterator *itr1*, Pointset_Powerset_Octagonal_Shape_int32_t_Iterator *itr2*)

11.114.3.33 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::drop_some_non_integer_points (Integer *complexity_threshold*)

11.114.3.34 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.114.3.35 native Pointset_Powerset_Octagonal_Shape_int32_t_Iterator parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::end_iterator ()

11.114.3.36 boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_Octagonal_Shape_int32_t.java.

References equals().

11.114.3.37 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::equals (Pointset_Powerset_Octagonal_Shape_int32_t *p*)

Referenced by equals().

11.114.3.38 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::expand_space_dimension (Variable *var*, long *m*)

11.114.3.39 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::external_memory_in_bytes ()

11.114.3.40 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::finalize () `[protected]`

11.114.3.41 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.114.3.42 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::free ()

11.114.3.43 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.114.3.44 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.114.3.45 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.114.3.46 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.114.3.47 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::geometrically_covers (Pointset_Powerset_Octagonal_Shape_int32_t *y*)

11.114.3.48 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::geometrically_equals (Pointset_Powerset_Octagonal_Shape_int32_t *y*)

11.114.3.49 native int parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_-t::hashCode ()

11.114.3.50 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::intersection_assign (Pointset_Powerset_Octagonal_Shape_int32_t *p*)

11.114.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::is_bounded ()

11.114.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::is_discrete ()

11.114.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int32_t::is_disjoint_from (Pointset_Powerset_Octagonal_Shape_int32_t *y*)

11.114.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::is_empty ()

11.114.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::is_topologically_closed ()

11.114.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::is_universe ()

11.114.3.57 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int32_t::map_space_dimensions (Partial_Function *pfunc*)

11.114.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.114.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.114.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.114.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.114.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::OK ()

11.114.3.63 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_-t::omega_reduce ()

11.114.3.64 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_-t::pairwise_reduce ()

11.114.3.65 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int32_t::refine_with_congruence (Congruence *c*)

11.114.3.66 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int32_t::refine_with_congruences (Congruence_System *c*)

11.114.3.67 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_-t::refine_with_constraint (Constraint *c*)

11.114.3.68 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int32_t::refine_with_constraints (Constraint_System *c*)

11.114.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_int32_t::relation_with (Congruence *c*)

11.114.3.70 native Poly_Gen_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_int32_t::relation_with (Generator *c*)

11.114.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_int32_t::relation_with (Constraint *c*)

11.114.3.72 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int32_t::remove_higher_space_dimensions (long *new_dimension*)

11.114.3.73 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int32_t::remove_space_dimensions (Variables_Set *vars*)

11.114.3.74 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int32_t::simplify_using_context_assign (Pointset_Powerset_Octagonal_Shape_int32_t *p*)

11.114.3.75 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_-t::size ()

11.114.3.76 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_-t::space_dimension ()

11.114.3.77 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int32_t::strictly_contains (Pointset_Powerset_Octagonal_Shape_int32_t *y*)

11.114.3.78 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::swap (Pointset_Powerset_Octagonal_Shape_int32_t *y*)

11.114.3.79 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::time_elapse_assign (Pointset_Powerset_Octagonal_Shape_int32_t *p*)

11.114.3.80 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::topological_closure_assign ()

11.114.3.81 native String parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::toString ()

11.114.3.82 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::total_memory_in_bytes ()

11.114.3.83 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::unconstrain_space_dimension (Variable *var*)

11.114.3.84 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::unconstrain_space_dimensions (Variables_Set *vars*)

11.114.3.85 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::upper_bound_assign (Pointset_Powerset_Octagonal_Shape_int32_t *p*)

11.114.3.86 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t::upper_bound_assign_if_exact (Pointset_Powerset_Octagonal_Shape_int32_t *y*)

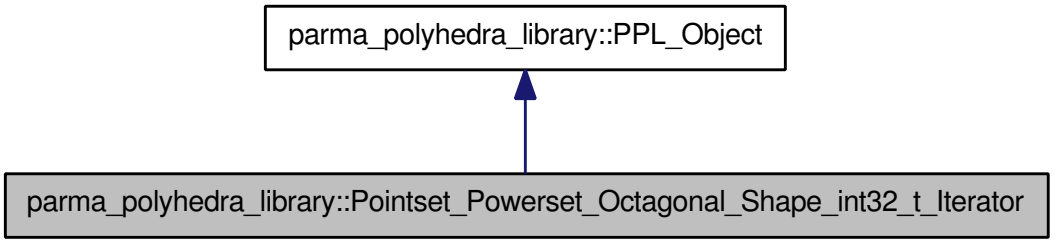
The documentation for this class was generated from the following file:

- Pointset_Powerset_Octagonal_Shape_int32_t.java

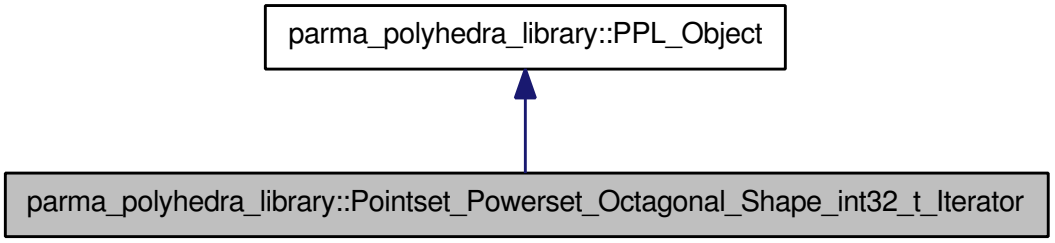
11.115 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int32_t> >:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t_Iterator:



Public Member Functions

- Pointset_Powerset_Octagonal_Shape_int32_t_Iterator (Pointset_Powerset_Octagonal_Shape_int32_t_Iterator y)
- native boolean equals (Pointset_Powerset_Octagonal_Shape_int32_t_Iterator itr)
- native void next ()
- native void prev ()
- native Octagonal_Shape_int32_t get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Octagonal_Shape_int32_t_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Octagonal_Shape_int32_t obj)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_int32_t_Iterator y)

11.115.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int32_t> >:: iterator.

Definition at line 30 of file Pointset_Powerset_Octagonal_Shape_int32_t_Iterator.java.

11.115.2 Constructor & Destructor Documentation

11.115.2.1 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t_Iterator::Pointset_Powerset_Octagonal_Shape_int32_t_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Octagonal_Shape_int32_t_Iterator.java.

11.115.2.2 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t_Iterator::Pointset_Powerset_Octagonal_Shape_int32_t_Iterator (Pointset_Powerset_Octagonal_Shape_int32_t_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Octagonal_Shape_int32_t_Iterator.java.

References build_cpp_object().

11.115.3 Member Function Documentation

11.115.3.1 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t_Iterator::build_cpp_object (Pointset_Powerset_Octagonal_Shape_int32_t_Iterator *y*) [private]

Referenced by Pointset_Powerset_Octagonal_Shape_int32_t_Iterator().

11.115.3.2 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t_Iterator::build_ppl_object (Pointset_Powerset_Octagonal_Shape_int32_t *obj*) [private]

11.115.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t_Iterator::equals (Pointset_Powerset_Octagonal_Shape_int32_t_Iterator *itr*)

11.115.3.4 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t_Iterator::finalize () [protected]

11.115.3.5 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t_Iterator::free ()

11.115.3.6 native Octagonal_Shape_int32_t parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t_Iterator::get_disjunct ()

11.115.3.7 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t_Iterator::next ()

11.115.3.8 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t_Iterator::prev ()

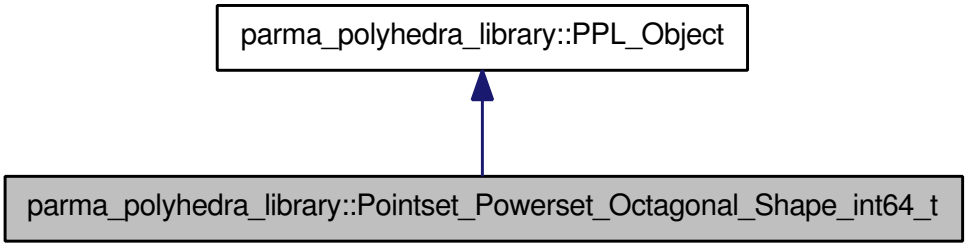
The documentation for this class was generated from the following file:

- Pointset_Powerset_Octagonal_Shape_int32_t_Iterator.java

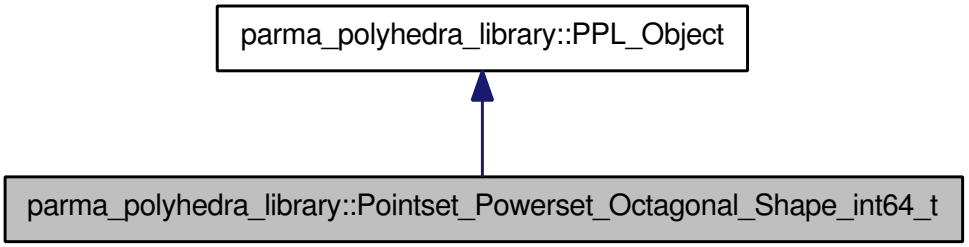
11.116 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int64_t> >

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t:



Public Member Functions

- Pointset_Powerset_Octagonal_Shape_int64_t (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Octagonal_Shape_int64_t (Pointset_Powerset_Octagonal_Shape_int64_t y)
- Pointset_Powerset_Octagonal_Shape_int64_t (Octagonal_Shape_int64_t y)
- Pointset_Powerset_Octagonal_Shape_int64_t (Pointset_Powerset_Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Pointset_Powerset_Octagonal_Shape_int64_t (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Pointset_Powerset_Octagonal_Shape_int64_t (Constraint_System cs)
- Pointset_Powerset_Octagonal_Shape_int64_t (Congruence_System cs)
- native void swap (Pointset_Powerset_Octagonal_Shape_int64_t y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)

- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Octagonal_Shape_int64_t y)
- native boolean strictly_contains (Pointset_Powerset_Octagonal_Shape_int64_t y)
- native boolean is_disjoint_from (Pointset_Powerset_Octagonal_Shape_int64_t y)
- native boolean geometrically_covers (Pointset_Powerset_Octagonal_Shape_int64_t y)
- native boolean geometrically_equals (Pointset_Powerset_Octagonal_Shape_int64_t y)
- native boolean equals (Pointset_Powerset_Octagonal_Shape_int64_t p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Octagonal_Shape_int64_t p)
- native void upper_bound_assign (Pointset_Powerset_Octagonal_Shape_int64_t p)
- native void difference_assign (Pointset_Powerset_Octagonal_Shape_int64_t p)
- native void concatenate_assign (Pointset_Powerset_Octagonal_Shape_int64_t p)
- native void time_elapse_assign (Pointset_Powerset_Octagonal_Shape_int64_t p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Octagonal_Shape_int64_t y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Octagonal_Shape_int64_t p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)

- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Octagonal_Shape_int64_t_Iterator begin_iterator ()
- native Pointset_Powerset_Octagonal_Shape_int64_t_Iterator end_iterator ()
- native void add_disjunct (Octagonal_Shape_int64_t j_disj)
- native void drop_disjunct (Pointset_Powerset_Octagonal_Shape_int64_t_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Octagonal_Shape_int64_t_Iterator itr1, Pointset_Powerset_Octagonal_Shape_int64_t_Iterator itr2)
- native void BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_Octagonal_Shape_int64_t y)
- native void BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_Octagonal_Shape_int64_t y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Octagonal_Shape_int64_t ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_int64_t y)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)

11.116.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int64_t> >

Definition at line 33 of file Pointset_Powerset_Octagonal_Shape_int64_t.java.

11.116.2 Constructor & Destructor Documentation

11.116.2.1 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::Pointset_Powerset_Octagonal_Shape_int64_t (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.116.2.2 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::Pointset_Powerset_Octagonal_Shape_int64_t () [inline, private]

Definition at line 45 of file Pointset_Powerset_Octagonal_Shape_int64_t.java.

11.116.2.3 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::Pointset_Powerset_Octagonal_Shape_int64_t (Pointset_Powerset_Octagonal_Shape_int64_t *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.116.2.4 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::Pointset_Powerset_Octagonal_Shape_int64_t (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.116.2.5 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::Pointset_Powerset_Octagonal_Shape_int64_t (Pointset_Powerset_Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.116.2.6 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::Pointset_Powerset_Octagonal_Shape_int64_t (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.116.2.7 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::Pointset_Powerset_Octagonal_Shape_int64_t (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.116.2.8 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::Pointset_Powerset_Octagonal_Shape_int64_t (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Octagonal_Shape_int64_t.java.

References build_cpp_object().

11.116.3 Member Function Documentation

11.116.3.1 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::add_congruence (Congruence *c*)

11.116.3.2 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::add_congruences (Congruence_System *c*)

11.116.3.3 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::add_constraint (Constraint *c*)

11.116.3.4 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::add_constraints (Constraint_System *c*)

11.116.3.5 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::add_disjunct (Octagonal_Shape_int64_t *j_disj*)

11.116.3.6 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int64_t::add_space_dimensions_and_embed (long *m*)

11.116.3.7 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int64_t::add_space_dimensions_and_project (long *m*)

11.116.3.8 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_-t::affine_dimension ()

11.116.3.9 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.116.3.10 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.116.3.11 native String parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::ascii_dump ()

11.116.3.12 native Pointset_Powerset_Octagonal_Shape_int64_t_Iterator parma_-polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::begin_iterator ()

11.116.3.13 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int64_t::BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_Octagonal_Shape_int64_t *y*, Integer *d*)

11.116.3.14 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int64_t::BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_Octagonal_Shape_int64_t *y*)

11.116.3.15 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.116.3.16 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.116.3.17 native boolean parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int64_t::bounds_from_above (Linear_Expression *expr*)

11.116.3.18 native boolean parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int64_t::bounds_from_below (Linear_Expression *expr*)

11.116.3.19 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_-t::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) `[private]`

11.116.3.20 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int64_t::build_cpp_object (Octagonal_Shape_int64_t *y*) `[private]`

11.116.3.21 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::build_cpp_object (Pointset_Powerset_Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) `[private]`

11.116.3.22 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::build_cpp_object (Pointset_Powerset_Octagonal_Shape_int64_t *y*) [private]

11.116.3.23 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.116.3.24 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int64_t::build_cpp_object (Congruence_System *cs*) [private]

11.116.3.25 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int64_t::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Octagonal_Shape_int64_t().

11.116.3.26 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::concatenate_assign (Pointset_Powerset_Octagonal_Shape_int64_t *p*)

11.116.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::constrains (Variable *var*)

11.116.3.28 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int64_t::contains (Pointset_Powerset_Octagonal_Shape_int64_t *y*)

11.116.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::contains_integer_point ()

11.116.3.30 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::difference_assign (Pointset_Powerset_Octagonal_Shape_int64_t *p*)

11.116.3.31 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::drop_disjunct (Pointset_Powerset_Octagonal_Shape_int64_t_Iterator *itr*)

11.116.3.32 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::drop_disjuncts (Pointset_Powerset_Octagonal_Shape_int64_t_Iterator *itr1*, Pointset_Powerset_Octagonal_Shape_int64_t_Iterator *itr2*)

11.116.3.33 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::drop_some_non_integer_points (Integer *complexity_threshold*)

11.116.3.34 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.116.3.35 native Pointset_Powerset_Octagonal_Shape_int64_t_Iterator parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::end_iterator ()

11.116.3.36 boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_Octagonal_Shape_int64_t.java.

References equals().

11.116.3.37 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::equals (Pointset_Powerset_Octagonal_Shape_int64_t *p*)

Referenced by equals().

11.116.3.38 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::expand_space_dimension (Variable *var*, long *m*)

11.116.3.39 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::external_memory_in_bytes ()

11.116.3.40 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::finalize () `[protected]`

11.116.3.41 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.116.3.42 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::free ()

11.116.3.43 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.116.3.44 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.116.3.45 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.116.3.46 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.116.3.47 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::geometrically_covers (Pointset_Powerset_Octagonal_Shape_int64_t *y*)

11.116.3.48 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::geometrically_equals (Pointset_Powerset_Octagonal_Shape_int64_t *y*)

11.116.3.49 native int parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_-t::hashCode ()

11.116.3.50 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::intersection_assign (Pointset_Powerset_Octagonal_Shape_int64_t *p*)

11.116.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::is_bounded ()

11.116.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::is_discrete ()

11.116.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int64_t::is_disjoint_from (Pointset_Powerset_Octagonal_Shape_int64_t *y*)

11.116.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::is_empty ()

11.116.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::is_topologically_closed ()

11.116.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::is_universe ()

11.116.3.57 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int64_t::map_space_dimensions (Partial_Function *pfunc*)

11.116.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.116.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.116.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.116.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.116.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::OK ()

11.116.3.63 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_-t::omega_reduce ()

11.116.3.64 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_-t::pairwise_reduce ()

11.116.3.65 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int64_t::refine_with_congruence (Congruence *c*)

11.116.3.66 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int64_t::refine_with_congruences (Congruence_System *c*)

11.116.3.67 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_-t::refine_with_constraint (Constraint *c*)

11.116.3.68 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int64_t::refine_with_constraints (Constraint_System *c*)

11.116.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_int64_t::relation_with (Congruence *c*)

11.116.3.70 native Poly_Gen_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_int64_t::relation_with (Generator *c*)

11.116.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_int64_t::relation_with (Constraint *c*)

11.116.3.72 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int64_t::remove_higher_space_dimensions (long *new_dimension*)

11.116.3.73 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int64_t::remove_space_dimensions (Variables_Set *vars*)

11.116.3.74 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int64_t::simplify_using_context_assign (Pointset_Powerset_Octagonal_Shape_int64_t *p*)

11.116.3.75 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_-t::size ()

11.116.3.76 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_-t::space_dimension ()

11.116.3.77 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int64_t::strictly_contains (Pointset_Powerset_Octagonal_Shape_int64_t *y*)

11.116.3.78 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::swap (Pointset_Powerset_Octagonal_Shape_int64_t *y*)

11.116.3.79 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::time_elapse_assign (Pointset_Powerset_Octagonal_Shape_int64_t *p*)

11.116.3.80 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::topological_closure_assign ()

11.116.3.81 native String parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::toString ()

11.116.3.82 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::total_memory_in_bytes ()

11.116.3.83 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::unconstrain_space_dimension (Variable *var*)

11.116.3.84 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::unconstrain_space_dimensions (Variables_Set *vars*)

11.116.3.85 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::upper_bound_assign (Pointset_Powerset_Octagonal_Shape_int64_t *p*)

11.116.3.86 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t::upper_bound_assign_if_exact (Pointset_Powerset_Octagonal_Shape_int64_t *y*)

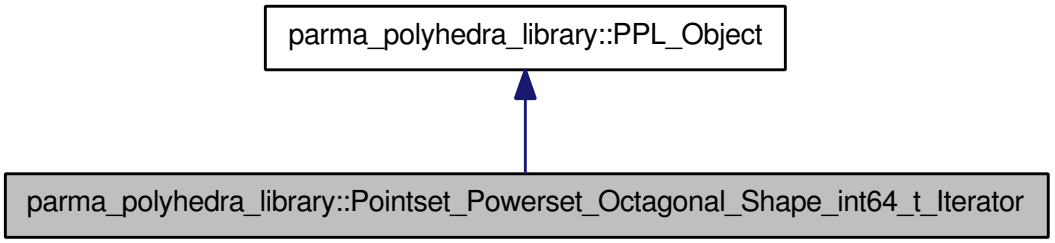
The documentation for this class was generated from the following file:

- Pointset_Powerset_Octagonal_Shape_int64_t.java

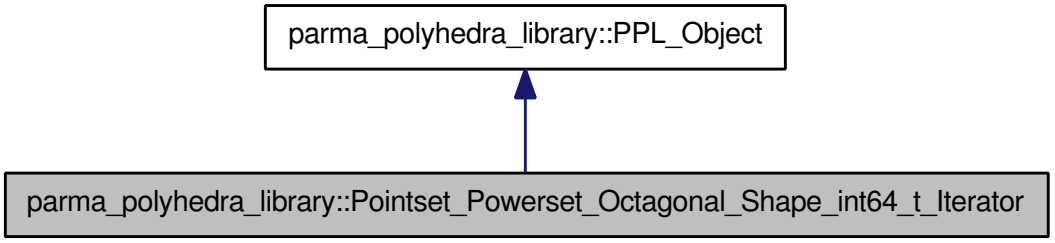
11.117 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int64_t> >:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t_Iterator:



Public Member Functions

- Pointset_Powerset_Octagonal_Shape_int64_t_Iterator (Pointset_Powerset_Octagonal_Shape_int64_t_Iterator y)
- native boolean equals (Pointset_Powerset_Octagonal_Shape_int64_t_Iterator itr)
- native void next ()
- native void prev ()
- native Octagonal_Shape_int64_t get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Octagonal_Shape_int64_t_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Octagonal_Shape_int64_t obj)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_int64_t_Iterator y)

11.117.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int64_t> >:: iterator.

Definition at line 30 of file Pointset_Powerset_Octagonal_Shape_int64_t_Iterator.java.

11.117.2 Constructor & Destructor Documentation

11.117.2.1 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t_Iterator::Pointset_Powerset_Octagonal_Shape_int64_t_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Octagonal_Shape_int64_t_Iterator.java.

11.117.2.2 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t_Iterator::Pointset_Powerset_Octagonal_Shape_int64_t_Iterator (Pointset_Powerset_Octagonal_Shape_int64_t_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Octagonal_Shape_int64_t_Iterator.java.

References build_cpp_object().

11.117.3 Member Function Documentation

11.117.3.1 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t_Iterator::build_cpp_object (Pointset_Powerset_Octagonal_Shape_int64_t_Iterator *y*) [private]

Referenced by Pointset_Powerset_Octagonal_Shape_int64_t_Iterator().

11.117.3.2 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t_Iterator::build_ppl_object (Pointset_Powerset_Octagonal_Shape_int64_t *obj*) [private]

11.117.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t_Iterator::equals (Pointset_Powerset_Octagonal_Shape_int64_t_Iterator *itr*)

11.117.3.4 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t_Iterator::finalize () `[protected]`

11.117.3.5 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t_Iterator::free ()

11.117.3.6 native Octagonal_Shape_int64_t parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t_Iterator::get_disjunct ()

11.117.3.7 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t_Iterator::next ()

11.117.3.8 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t_Iterator::prev ()

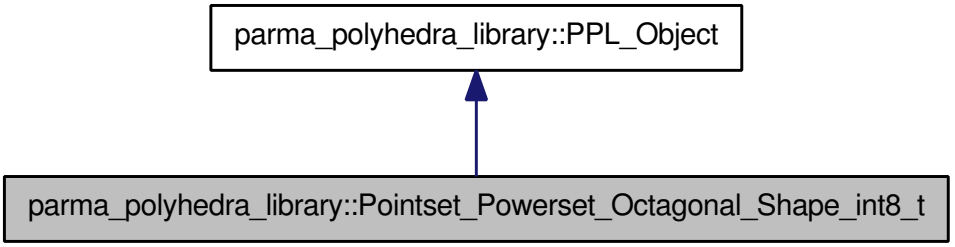
The documentation for this class was generated from the following file:

- Pointset_Powerset_Octagonal_Shape_int64_t_Iterator.java

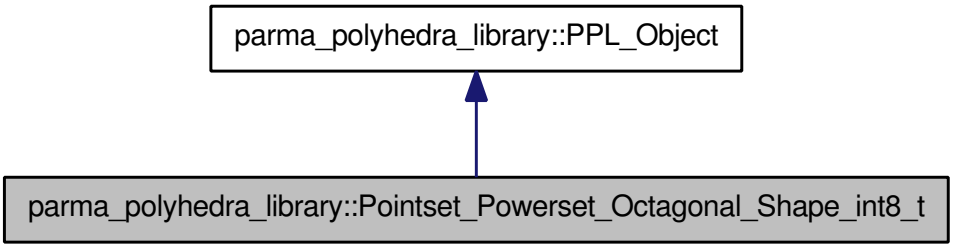
11.118 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int8_t> >

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t:



Public Member Functions

- Pointset_Powerset_Octagonal_Shape_int8_t (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Octagonal_Shape_int8_t (Pointset_Powerset_Octagonal_Shape_int8_t y)
- Pointset_Powerset_Octagonal_Shape_int8_t (Octagonal_Shape_int8_t y)
- Pointset_Powerset_Octagonal_Shape_int8_t (Pointset_Powerset_Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Pointset_Powerset_Octagonal_Shape_int8_t (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Pointset_Powerset_Octagonal_Shape_int8_t (Constraint_System cs)
- Pointset_Powerset_Octagonal_Shape_int8_t (Congruence_System cs)
- native void swap (Pointset_Powerset_Octagonal_Shape_int8_t y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)

- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Octagonal_Shape_int8_t y)
- native boolean strictly_contains (Pointset_Powerset_Octagonal_Shape_int8_t y)
- native boolean is_disjoint_from (Pointset_Powerset_Octagonal_Shape_int8_t y)
- native boolean geometrically_covers (Pointset_Powerset_Octagonal_Shape_int8_t y)
- native boolean geometrically_equals (Pointset_Powerset_Octagonal_Shape_int8_t y)
- native boolean equals (Pointset_Powerset_Octagonal_Shape_int8_t p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Octagonal_Shape_int8_t p)
- native void upper_bound_assign (Pointset_Powerset_Octagonal_Shape_int8_t p)
- native void difference_assign (Pointset_Powerset_Octagonal_Shape_int8_t p)
- native void concatenate_assign (Pointset_Powerset_Octagonal_Shape_int8_t p)
- native void time_elapse_assign (Pointset_Powerset_Octagonal_Shape_int8_t p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Octagonal_Shape_int8_t y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Octagonal_Shape_int8_t p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)

- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Octagonal_Shape_int8_t_Iterator begin_iterator ()
- native Pointset_Powerset_Octagonal_Shape_int8_t_Iterator end_iterator ()
- native void add_disjunct (Octagonal_Shape_int8_t j_disj)
- native void drop_disjunct (Pointset_Powerset_Octagonal_Shape_int8_t_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Octagonal_Shape_int8_t_Iterator itr1, Pointset_Powerset_Octagonal_Shape_int8_t_Iterator itr2)
- native void BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_Octagonal_Shape_int8_t y)
- native void BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_Octagonal_Shape_int8_t y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Octagonal_Shape_int8_t ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_int8_t y)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)

11.118.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int8_t> >

Definition at line 33 of file Pointset_Powerset_Octagonal_Shape_int8_t.java.

11.118.2 Constructor & Destructor Documentation

11.118.2.1 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::Pointset_Powerset_Octagonal_Shape_int8_t (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.118.2.2 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::Pointset_Powerset_Octagonal_Shape_int8_t () [inline, private]

Definition at line 45 of file Pointset_Powerset_Octagonal_Shape_int8_t.java.

11.118.2.3 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::Pointset_Powerset_Octagonal_Shape_int8_t (Pointset_Powerset_Octagonal_Shape_int8_t *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.118.2.4 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::Pointset_Powerset_Octagonal_Shape_int8_t (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.118.2.5 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::Pointset_Powerset_Octagonal_Shape_int8_t (Pointset_Powerset_Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.118.2.6 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::Pointset_Powerset_Octagonal_Shape_int8_t (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.118.2.7 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::Pointset_Powerset_Octagonal_Shape_int8_t (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.118.2.8 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::Pointset_Powerset_Octagonal_Shape_int8_t (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Octagonal_Shape_int8_t.java.

References build_cpp_object().

11.118.3 Member Function Documentation

11.118.3.1 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::add_congruence (Congruence *c*)

11.118.3.2 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::add_congruences (Congruence_System *c*)

11.118.3.3 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::add_constraint (Constraint *c*)

11.118.3.4 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::add_constraints (Constraint_System *c*)

11.118.3.5 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::add_disjunct (Octagonal_Shape_int8_t *j_disj*)

11.118.3.6 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int8_t::add_space_dimensions_and_embed (long *m*)

11.118.3.7 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int8_t::add_space_dimensions_and_project (long *m*)

11.118.3.8 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_-t::affine_dimension ()

11.118.3.9 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.118.3.10 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.118.3.11 native String parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_-t::ascii_dump ()

11.118.3.12 native Pointset_Powerset_Octagonal_Shape_int8_t_Iterator parma_-polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::begin_iterator ()

11.118.3.13 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int8_t::BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_Octagonal_Shape_int8_t *y*, Integer *d*)

11.118.3.14 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int8_t::BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_Octagonal_Shape_int8_t *y*)

11.118.3.15 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.118.3.16 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.118.3.17 native boolean parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int8_t::bounds_from_above (Linear_Expression *expr*)

11.118.3.18 native boolean parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int8_t::bounds_from_below (Linear_Expression *expr*)

11.118.3.19 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_-t::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.118.3.20 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int8_t::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.118.3.21 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::build_cpp_object (Pointset_Powerset_Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.118.3.22 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::build_cpp_object (Pointset_Powerset_Octagonal_Shape_int8_t *y*) [private]

11.118.3.23 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.118.3.24 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int8_t::build_cpp_object (Congruence_System *cs*) [private]

11.118.3.25 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int8_t::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Octagonal_Shape_int8_t().

11.118.3.26 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::concatenate_assign (Pointset_Powerset_Octagonal_Shape_int8_t *p*)

11.118.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::constrains (Variable *var*)

11.118.3.28 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int8_t::contains (Pointset_Powerset_Octagonal_Shape_int8_t *y*)

11.118.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::contains_integer_point ()

11.118.3.30 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::difference_assign (Pointset_Powerset_Octagonal_Shape_int8_t *p*)

11.118.3.31 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::drop_disjunct (Pointset_Powerset_Octagonal_Shape_int8_t_Iterator *itr*)

11.118.3.32 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::drop_disjuncts (Pointset_Powerset_Octagonal_Shape_int8_t_Iterator *itr1*, Pointset_Powerset_Octagonal_Shape_int8_t_Iterator *itr2*)

11.118.3.33 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::drop_some_non_integer_points (Integer *complexity_threshold*)

11.118.3.34 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.118.3.35 native Pointset_Powerset_Octagonal_Shape_int8_t_Iterator parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::end_iterator ()

11.118.3.36 boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_Octagonal_Shape_int8_t.java.

References equals().

11.118.3.37 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::equals (Pointset_Powerset_Octagonal_Shape_int8_t *p*)

Referenced by equals().

11.118.3.38 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::expand_space_dimension (Variable *var*, long *m*)

11.118.3.39 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::external_memory_in_bytes ()

11.118.3.40 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::finalize () `[protected]`

11.118.3.41 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.118.3.42 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::free ()

11.118.3.43 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.118.3.44 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.118.3.45 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.118.3.46 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.118.3.47 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int8_t::geometrically_covers (Pointset_Powerset_Octagonal_Shape_int8_t *y*)

11.118.3.48 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int8_t::geometrically_equals (Pointset_Powerset_Octagonal_Shape_int8_t *y*)

11.118.3.49 native int parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_-t::hashCode ()

11.118.3.50 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::intersection_assign (Pointset_Powerset_Octagonal_Shape_int8_t *p*)

11.118.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::is_bounded ()

11.118.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::is_discrete ()

11.118.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int8_t::is_disjoint_from (Pointset_Powerset_Octagonal_Shape_int8_t *y*)

11.118.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::is_empty ()

11.118.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::is_topologically_closed ()

11.118.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::is_universe ()

11.118.3.57 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int8_t::map_space_dimensions (Partial_Function *pfunc*)

11.118.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.118.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.118.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.118.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.118.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::OK ()

11.118.3.63 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_-t::omega_reduce ()

11.118.3.64 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_-t::pairwise_reduce ()

11.118.3.65 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int8_t::refine_with_congruence (Congruence *c*)

11.118.3.66 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int8_t::refine_with_congruences (Congruence_System *c*)

11.118.3.67 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_-t::refine_with_constraint (Constraint *c*)

11.118.3.68 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int8_t::refine_with_constraints (Constraint_System *c*)

11.118.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_int8_t::relation_with (Congruence *c*)

11.118.3.70 native Poly_Gen_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_int8_t::relation_with (Generator *c*)

11.118.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_int8_t::relation_with (Constraint *c*)

11.118.3.72 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int8_t::remove_higher_space_dimensions (long *new_dimension*)

11.118.3.73 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int8_t::remove_space_dimensions (Variables_Set *vars*)

11.118.3.74 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::simplify_using_context_assign (Pointset_Powerset_Octagonal_Shape_int8_t *p*)

11.118.3.75 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_-t::size ()

11.118.3.76 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_-t::space_dimension ()

11.118.3.77 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int8_t::strictly_contains (Pointset_Powerset_Octagonal_Shape_int8_t *y*)

11.118.3.78 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int8_t::swap (Pointset_Powerset_Octagonal_Shape_int8_t *y*)

11.118.3.79 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::time_elapse_assign (Pointset_Powerset_Octagonal_Shape_int8_t *p*)

11.118.3.80 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_-t::topological_closure_assign ()

11.118.3.81 native String parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_-t::toString ()

11.118.3.82 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_-t::total_memory_in_bytes ()

11.118.3.83 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int8_t::unconstrain_space_dimension (Variable *var*)

11.118.3.84 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_int8_t::unconstrain_space_dimensions (Variables_Set *vars*)

11.118.3.85 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t::upper_bound_assign (Pointset_Powerset_Octagonal_Shape_int8_t *p*)

11.118.3.86 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t::upper_bound_assign_if_exact (Pointset_Powerset_Octagonal_Shape_int8_t *y*)

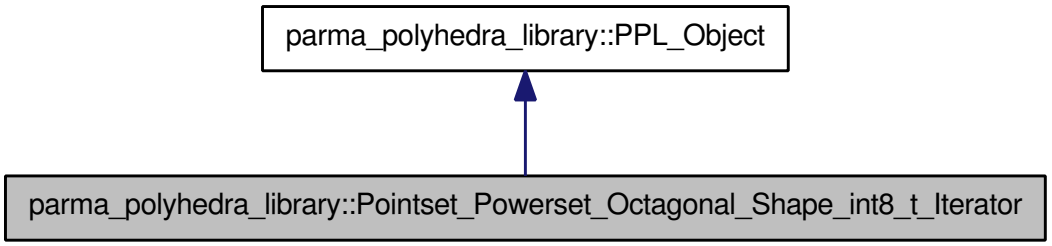
The documentation for this class was generated from the following file:

- Pointset_Powerset_Octagonal_Shape_int8_t.java

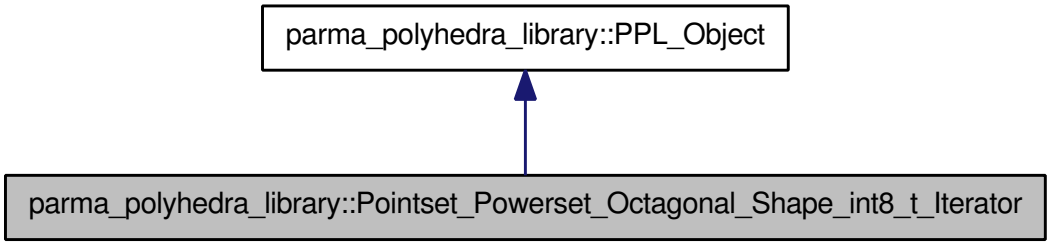
11.119 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int8_t> >::iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t_Iterator:



Public Member Functions

- Pointset_Powerset_Octagonal_Shape_int8_t_Iterator (Pointset_Powerset_Octagonal_Shape_int8_t_Iterator y)
- native boolean equals (Pointset_Powerset_Octagonal_Shape_int8_t_Iterator itr)
- native void next ()
- native void prev ()
- native Octagonal_Shape_int8_t get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Octagonal_Shape_int8_t_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Octagonal_Shape_int8_t obj)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_int8_t_Iterator y)

11.119.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int8_t> >:: iterator.

Definition at line 30 of file Pointset_Powerset_Octagonal_Shape_int8_t_Iterator.java.

11.119.2 Constructor & Destructor Documentation

11.119.2.1 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t_-Iterator::Pointset_Powerset_Octagonal_Shape_int8_t_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Octagonal_Shape_int8_t_Iterator.java.

11.119.2.2 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t_Iterator::Pointset_Powerset_Octagonal_Shape_int8_t_Iterator (Pointset_Powerset_Octagonal_Shape_int8_t_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Octagonal_Shape_int8_t_Iterator.java.

References build_cpp_object().

11.119.3 Member Function Documentation

11.119.3.1 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t_-Iterator::build_cpp_object (Pointset_Powerset_Octagonal_Shape_int8_t_Iterator *y*) [private]

Referenced by Pointset_Powerset_Octagonal_Shape_int8_t_Iterator().

11.119.3.2 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_-t_Iterator::build_ppl_object (Pointset_Powerset_Octagonal_Shape_int8_t *obj*) [private]

11.119.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-int8_t_Iterator::equals (Pointset_Powerset_Octagonal_Shape_int8_t_Iterator *itr*)

11.119.3.4 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t_-Iterator::finalize () `[protected]`

11.119.3.5 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t_-Iterator::free ()

11.119.3.6 native Octagonal_Shape_int8_t parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_int8_t_Iterator::get_disjunct ()

11.119.3.7 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t_-Iterator::next ()

11.119.3.8 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t_-Iterator::prev ()

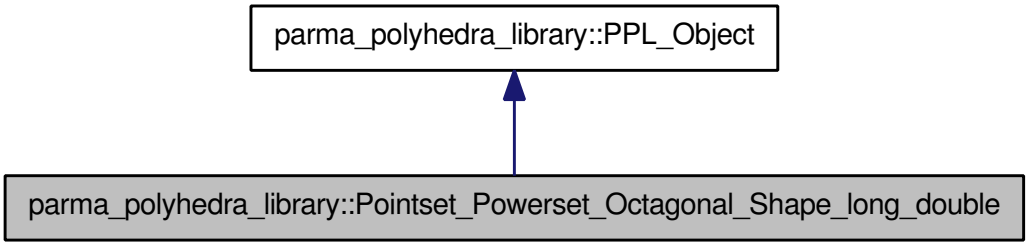
The documentation for this class was generated from the following file:

- Pointset_Powerset_Octagonal_Shape_int8_t_Iterator.java

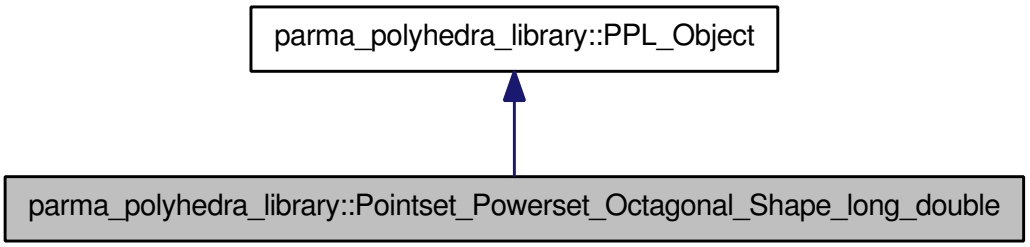
11.120 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_-double Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<long double> >

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double:



Public Member Functions

- Pointset_Powerset_Octagonal_Shape_long_double (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Octagonal_Shape_long_double (Pointset_Powerset_Octagonal_Shape_long_double y)
- Pointset_Powerset_Octagonal_Shape_long_double (Octagonal_Shape_long_double y)
- Pointset_Powerset_Octagonal_Shape_long_double (Pointset_Powerset_Octagonal_Shape_long_double y, Complexity_Class complexity)
- Pointset_Powerset_Octagonal_Shape_long_double (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Pointset_Powerset_Octagonal_Shape_long_double (Constraint_System cs)
- Pointset_Powerset_Octagonal_Shape_long_double (Congruence_System cs)
- native void swap (Pointset_Powerset_Octagonal_Shape_long_double y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()

- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Octagonal_Shape_long_double y)
- native boolean strictly_contains (Pointset_Powerset_Octagonal_Shape_long_double y)
- native boolean is_disjoint_from (Pointset_Powerset_Octagonal_Shape_long_double y)
- native boolean geometrically_covers (Pointset_Powerset_Octagonal_Shape_long_double y)
- native boolean geometrically_equals (Pointset_Powerset_Octagonal_Shape_long_double y)
- native boolean equals (Pointset_Powerset_Octagonal_Shape_long_double p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Octagonal_Shape_long_double p)
- native void upper_bound_assign (Pointset_Powerset_Octagonal_Shape_long_double p)
- native void difference_assign (Pointset_Powerset_Octagonal_Shape_long_double p)
- native void concatenate_assign (Pointset_Powerset_Octagonal_Shape_long_double p)
- native void time_elapse_assign (Pointset_Powerset_Octagonal_Shape_long_double p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Octagonal_Shape_long_double y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Octagonal_Shape_long_double p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)

- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Octagonal_Shape_long_double_Iterator begin_iterator ()
- native Pointset_Powerset_Octagonal_Shape_long_double_Iterator end_iterator ()
- native void add_disjunct (Octagonal_Shape_long_double j_disj)
- native void drop_disjunct (Pointset_Powerset_Octagonal_Shape_long_double_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Octagonal_Shape_long_double_Iterator itr1, Pointset_Powerset_Octagonal_Shape_long_double_Iterator itr2)
- native void BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_Octagonal_Shape_long_double y)
- native void BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_Octagonal_Shape_long_double y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Octagonal_Shape_long_double ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_long_double y)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.120.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<long double> >

Definition at line 33 of file Pointset_Powerset_Octagonal_Shape_long_double.java.

11.120.2 Constructor & Destructor Documentation

11.120.2.1 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::Pointset_Powerset_Octagonal_Shape_long_double (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Octagonal_Shape_long_double.java.

References build_cpp_object().

11.120.2.2 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::Pointset_Powerset_Octagonal_Shape_long_double () [inline, private]

Definition at line 45 of file Pointset_Powerset_Octagonal_Shape_long_double.java.

11.120.2.3 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::Pointset_Powerset_Octagonal_Shape_long_double (Pointset_Powerset_Octagonal_Shape_long_double *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Octagonal_Shape_long_double.java.

References build_cpp_object().

11.120.2.4 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::Pointset_Powerset_Octagonal_Shape_long_double (Octagonal_Shape_long_double *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Octagonal_Shape_long_double.java.

References build_cpp_object().

11.120.2.5 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::Pointset_Powerset_Octagonal_Shape_long_double (Pointset_Powerset_Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Octagonal_Shape_long_double.java.

References build_cpp_object().

11.120.2.6 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::Pointset_Powerset_Octagonal_Shape_long_double (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Octagonal_Shape_long_double.java.

References build_cpp_object().

11.120.2.7 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::Pointset_Powerset_Octagonal_Shape_long_double (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Octagonal_Shape_long_double.java.

References build_cpp_object().

11.120.2.8 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::Pointset_Powerset_Octagonal_Shape_long_double (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Octagonal_Shape_long_double.java.

References build_cpp_object().

11.120.3 Member Function Documentation

11.120.3.1 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::add_congruence (Congruence *c*)

11.120.3.2 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::add_congruences (Congruence_System *c*)

11.120.3.3 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::add_constraint (Constraint *c*)

11.120.3.4 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::add_constraints (Constraint_System *c*)

11.120.3.5 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::add_disjunct (Octagonal_Shape_long_double *j_disj*)

11.120.3.6 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::add_space_dimensions_and_embed (long *m*)

11.120.3.7 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::add_space_dimensions_and_project (long *m*)

11.120.3.8 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::affine_dimension ()

11.120.3.9 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.120.3.10 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.120.3.11 native String parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::ascii_dump ()

11.120.3.12 native Pointset_Powerset_Octagonal_Shape_long_double_Iterator parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::begin_iterator ()

11.120.3.13 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_Octagonal_Shape_long_double *y*, Integer *d*)

11.120.3.14 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_Octagonal_Shape_long_double *y*)

11.120.3.15 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.120.3.16 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.120.3.17 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::bounds_from_above (Linear_Expression *expr*)

11.120.3.18 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::bounds_from_below (Linear_Expression *expr*)

11.120.3.19 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.120.3.20 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.120.3.21 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::build_cpp_object (Pointset_Powerset_Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.120.3.22 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::build_cpp_object (Pointset_Powerset_Octagonal_Shape_long_double *y*) [private]

11.120.3.23 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.120.3.24 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::build_cpp_object (Congruence_System *cs*) [private]

11.120.3.25 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Octagonal_Shape_long_double().

11.120.3.26 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::concatenate_assign (Pointset_Powerset_Octagonal_Shape_long_double *p*)

11.120.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::constrains (Variable *var*)

11.120.3.28 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::contains (Pointset_Powerset_Octagonal_Shape_long_double *y*)

11.120.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::contains_integer_point ()

11.120.3.30 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::difference_assign (Pointset_Powerset_Octagonal_Shape_long_double *p*)

11.120.3.31 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::drop_disjunct (Pointset_Powerset_Octagonal_Shape_long_double_Iterator *itr*)

11.120.3.32 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::drop_disjuncts (Pointset_Powerset_Octagonal_Shape_long_double_Iterator *itr1*, Pointset_Powerset_Octagonal_Shape_long_double_Iterator *itr2*)

11.120.3.33 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::drop_some_non_integer_points (Integer *complexity_threshold*)

11.120.3.34 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.120.3.35 native Pointset_Powerset_Octagonal_Shape_long_double_Iterator parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::end_iterator ()

11.120.3.36 boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_Octagonal_Shape_long_double.java.

References equals().

11.120.3.37 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_long_double::equals (Pointset_Powerset_Octagonal_Shape_long_double *p*)

Referenced by equals().

11.120.3.38 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_long_double::expand_space_dimension (Variable *var*, long *m*)

11.120.3.39 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_-double::external_memory_in_bytes ()

11.120.3.40 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_-double::finalize () `[protected]`

11.120.3.41 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_long_double::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.120.3.42 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_-double::free ()

11.120.3.43 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_-double::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.120.3.44 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-long_double::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.120.3.45 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.120.3.46 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.120.3.47 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::geometrically_covers (Pointset_Powerset_Octagonal_Shape_long_double *y*)

11.120.3.48 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::geometrically_equals (Pointset_Powerset_Octagonal_Shape_long_double *y*)

11.120.3.49 native int parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::hashCode ()

11.120.3.50 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::intersection_assign (Pointset_Powerset_Octagonal_Shape_long_double *p*)

11.120.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::is_bounded ()

11.120.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::is_discrete ()

11.120.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-long_double::is_disjoint_from (Pointset_Powerset_Octagonal_Shape_long_double *y*)

11.120.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-long_double::is_empty ()

11.120.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-long_double::is_topologically_closed ()

11.120.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-long_double::is_universe ()

11.120.3.57 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_long_double::map_space_dimensions (Partial_Function *pfunc*)

11.120.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-long_double::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.120.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-long_double::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.120.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-long_double::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.120.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.120.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::OK ()

11.120.3.63 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::omega_reduce ()

11.120.3.64 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::pairwise_reduce ()

11.120.3.65 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::refine_with_congruence (Congruence *c*)

11.120.3.66 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::refine_with_congruences (Congruence_System *c*)

11.120.3.67 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::refine_with_constraint (Constraint *c*)

11.120.3.68 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::refine_with_constraints (Constraint_System *c*)

11.120.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_long_double::relation_with (Congruence *c*)

11.120.3.70 native Poly_Gen_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_long_double::relation_with (Generator *c*)

11.120.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_long_double::relation_with (Constraint *c*)

11.120.3.72 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_long_double::remove_higher_space_dimensions (long *new_dimension*)

11.120.3.73 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_long_double::remove_space_dimensions (Variables_Set *vars*)

11.120.3.74 native boolean parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_long_double::simplify_using_context_assign (Pointset_Powerset_Octagonal_Shape_long_double *p*)

11.120.3.75 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_-double::size ()

11.120.3.76 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_-double::space_dimension ()

11.120.3.77 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::strictly_contains (Pointset_Powerset_Octagonal_Shape_long_double *y*)

11.120.3.78 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::swap (Pointset_Powerset_Octagonal_Shape_long_double *y*)

11.120.3.79 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::time_elapse_assign (Pointset_Powerset_Octagonal_Shape_long_double *p*)

11.120.3.80 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::topological_closure_assign ()

11.120.3.81 native String parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::toString ()

11.120.3.82 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::total_memory_in_bytes ()

11.120.3.83 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::unconstrain_space_dimension (Variable *var*)

11.120.3.84 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::unconstrain_space_dimensions (Variables_Set *vars*)

11.120.3.85 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::upper_bound_assign (Pointset_Powerset_Octagonal_Shape_long_double *p*)

11.120.3.86 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double::upper_bound_assign_if_exact (Pointset_Powerset_Octagonal_Shape_long_double *y*)

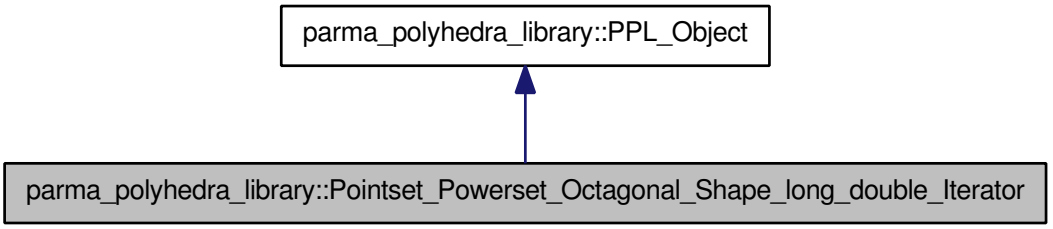
The documentation for this class was generated from the following file:

- Pointset_Powerset_Octagonal_Shape_long_double.java

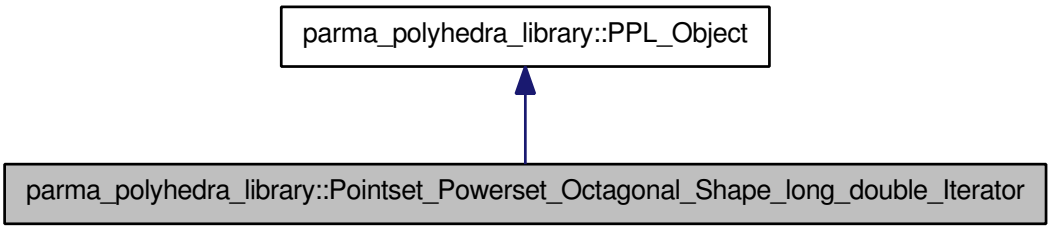
11.121 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<long double> >:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double_Iterator:



Public Member Functions

- Pointset_Powerset_Octagonal_Shape_long_double_Iterator (Pointset_Powerset_Octagonal_Shape_long_double_Iterator y)
- native boolean equals (Pointset_Powerset_Octagonal_Shape_long_double_Iterator itr)

- native void next ()
- native void prev ()
- native Octagonal_Shape_long_double get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Octagonal_Shape_long_double_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Octagonal_Shape_long_double obj)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_long_double_Iterator y)

11.121.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<long double> >:: iterator.

Definition at line 30 of file Pointset_Powerset_Octagonal_Shape_long_double_Iterator.java.

11.121.2 Constructor & Destructor Documentation

11.121.2.1 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double_-Iterator::Pointset_Powerset_Octagonal_Shape_long_double_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Octagonal_Shape_long_double_Iterator.java.

11.121.2.2 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_-double_Iterator::Pointset_Powerset_Octagonal_Shape_long_double_Iterator (Pointset_Powerset_Octagonal_Shape_long_double_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Octagonal_Shape_long_double_Iterator.java.

References build_cpp_object().

11.121.3 Member Function Documentation

11.121.3.1 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_long_double_Iterator::build_cpp_object (Pointset_Powerset_Octagonal_Shape_long_double_Iterator *y*) [private]

Referenced by Pointset_Powerset_Octagonal_Shape_long_double_Iterator().

11.121.3.2 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double_Iterator::build_ppl_object (Pointset_Powerset_Octagonal_Shape_long_double *obj*) [private]

11.121.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double_Iterator::equals (Pointset_Powerset_Octagonal_Shape_long_double_Iterator *itr*)

11.121.3.4 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double_Iterator::finalize () [protected]

11.121.3.5 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double_Iterator::free ()

11.121.3.6 native Octagonal_Shape_long_double parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double_Iterator::get_disjunct ()

11.121.3.7 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double_Iterator::next ()

11.121.3.8 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double_Iterator::prev ()

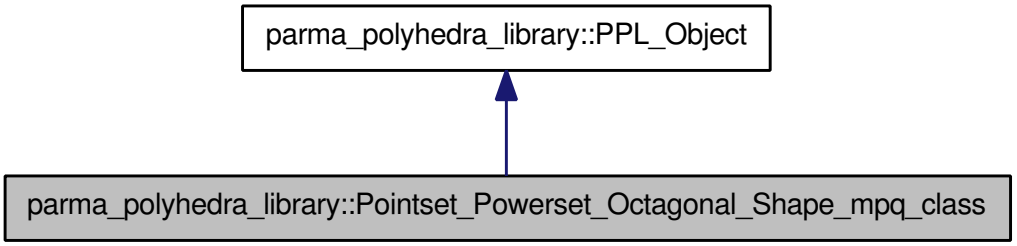
The documentation for this class was generated from the following file:

- Pointset_Powerset_Octagonal_Shape_long_double_Iterator.java

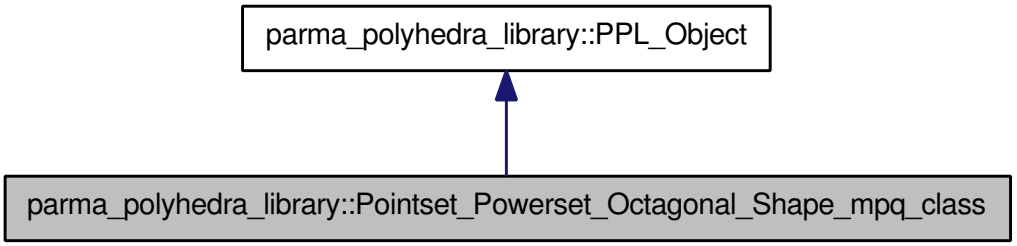
11.122 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<mpq_class> >

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class:



Public Member Functions

- Pointset_Powerset_Octagonal_Shape_mpq_class (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Octagonal_Shape_mpq_class (Pointset_Powerset_Octagonal_Shape_mpq_class y)
- Pointset_Powerset_Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class y)
- Pointset_Powerset_Octagonal_Shape_mpq_class (Pointset_Powerset_Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Pointset_Powerset_Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Pointset_Powerset_Octagonal_Shape_mpq_class (Constraint_System cs)
- Pointset_Powerset_Octagonal_Shape_mpq_class (Congruence_System cs)
- native void swap (Pointset_Powerset_Octagonal_Shape_mpq_class y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()

- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Octagonal_Shape_mpq_class y)
- native boolean strictly_contains (Pointset_Powerset_Octagonal_Shape_mpq_class y)
- native boolean is_disjoint_from (Pointset_Powerset_Octagonal_Shape_mpq_class y)
- native boolean geometrically_covers (Pointset_Powerset_Octagonal_Shape_mpq_class y)
- native boolean geometrically_equals (Pointset_Powerset_Octagonal_Shape_mpq_class y)
- native boolean equals (Pointset_Powerset_Octagonal_Shape_mpq_class p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Octagonal_Shape_mpq_class p)
- native void upper_bound_assign (Pointset_Powerset_Octagonal_Shape_mpq_class p)
- native void difference_assign (Pointset_Powerset_Octagonal_Shape_mpq_class p)
- native void concatenate_assign (Pointset_Powerset_Octagonal_Shape_mpq_class p)
- native void time_elapse_assign (Pointset_Powerset_Octagonal_Shape_mpq_class p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Octagonal_Shape_mpq_class y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Octagonal_Shape_mpq_class p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)

- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator begin_iterator ()
- native Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator end_iterator ()
- native void add_disjunct (Octagonal_Shape_mpq_class j_disj)
- native void drop_disjunct (Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator itr1, Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator itr2)
- native void BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_Octagonal_Shape_mpq_class y)
- native void BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_Octagonal_Shape_mpq_class y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Octagonal_Shape_mpq_class ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)

11.122.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<mpq_class> >

Definition at line 33 of file Pointset_Powerset_Octagonal_Shape_mpq_class.java.

11.122.2 Constructor & Destructor Documentation

11.122.2.1 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::Pointset_Powerset_Octagonal_Shape_mpq_class (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.122.2.2 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::Pointset_Powerset_Octagonal_Shape_mpq_class () [inline, private]

Definition at line 45 of file Pointset_Powerset_Octagonal_Shape_mpq_class.java.

11.122.2.3 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::Pointset_Powerset_Octagonal_Shape_mpq_class (Pointset_Powerset_Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.122.2.4 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::Pointset_Powerset_Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.122.2.5 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::Pointset_Powerset_Octagonal_Shape_mpq_class (Pointset_Powerset_Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.122.2.6 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::Pointset_Powerset_Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.122.2.7 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::Pointset_Powerset_Octagonal_Shape_mpq_class (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.122.2.8 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::Pointset_Powerset_Octagonal_Shape_mpq_class (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Octagonal_Shape_mpq_class.java.

References build_cpp_object().

11.122.3 Member Function Documentation

11.122.3.1 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::add_congruence (Congruence *c*)

11.122.3.2 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::add_congruences (Congruence_System *c*)

11.122.3.3 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::add_constraint (Constraint *c*)

11.122.3.4 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::add_constraints (Constraint_System *c*)

11.122.3.5 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::add_disjunct (Octagonal_Shape_mpq_class *j_disj*)

11.122.3.6 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::add_space_dimensions_and_embed (long *m*)

11.122.3.7 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::add_space_dimensions_and_project (long *m*)

11.122.3.8 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::affine_dimension ()

11.122.3.9 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.122.3.10 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.122.3.11 native String parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::ascii_dump ()

11.122.3.12 native Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::begin_iterator ()

11.122.3.13 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_Octagonal_Shape_mpq_class *y*, Integer *d*)

11.122.3.14 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_Octagonal_Shape_mpq_class *y*)

11.122.3.15 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.122.3.16 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.122.3.17 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::bounds_from_above (Linear_Expression *expr*)

11.122.3.18 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::bounds_from_below (Linear_Expression *expr*)

11.122.3.19 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) `[private]`

11.122.3.20 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::build_cpp_object (Octagonal_Shape_mpq_class *y*) `[private]`

11.122.3.21 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpq_class::build_cpp_object (Pointset_Powerset_Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.122.3.22 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpq_class::build_cpp_object (Pointset_Powerset_Octagonal_Shape_mpq_class *y*) [private]

11.122.3.23 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpq_class::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.122.3.24 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_mpq_class::build_cpp_object (Congruence_System *cs*) [private]

11.122.3.25 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_mpq_class::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Octagonal_Shape_mpq_class().

11.122.3.26 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpq_class::concatenate_assign (Pointset_Powerset_Octagonal_Shape_mpq_class *p*)

11.122.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpq_class::constrains (Variable *var*)

11.122.3.28 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_mpq_class::contains (Pointset_Powerset_Octagonal_Shape_mpq_class *y*)

11.122.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::contains_integer_point ()

11.122.3.30 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::difference_assign (Pointset_Powerset_Octagonal_Shape_mpq_class *p*)

11.122.3.31 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::drop_disjunct (Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator *itr*)

11.122.3.32 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::drop_disjuncts (Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator *itr1*, Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator *itr2*)

11.122.3.33 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::drop_some_non_integer_points (Integer *complexity_threshold*)

11.122.3.34 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.122.3.35 native Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::end_iterator ()

11.122.3.36 boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_Octagonal_Shape_mpq_class.java.

References equals().

11.122.3.37 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_mpq_class::equals (Pointset_Powerset_Octagonal_Shape_mpq_class *p*)

Referenced by equals().

11.122.3.38 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_mpq_class::expand_space_dimension (Variable *var*, long *m*)

11.122.3.39 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_-class::external_memory_in_bytes ()

11.122.3.40 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_-class::finalize () `[protected]`

11.122.3.41 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_mpq_class::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.122.3.42 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_-class::free ()

11.122.3.43 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_-class::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.122.3.44 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpq_class::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.122.3.45 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.122.3.46 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.122.3.47 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::geometrically_covers (Pointset_Powerset_Octagonal_Shape_mpq_class *y*)

11.122.3.48 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::geometrically_equals (Pointset_Powerset_Octagonal_Shape_mpq_class *y*)

11.122.3.49 native int parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::hashCode ()

11.122.3.50 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::intersection_assign (Pointset_Powerset_Octagonal_Shape_mpq_class *p*)

11.122.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::is_bounded ()

11.122.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class::is_discrete ()

11.122.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpq_class::is_disjoint_from (Pointset_Powerset_Octagonal_Shape_mpq_class *y*)

11.122.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpq_class::is_empty ()

11.122.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpq_class::is_topologically_closed ()

11.122.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpq_class::is_universe ()

11.122.3.57 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_mpq_class::map_space_dimensions (Partial_Function *pfunc*)

11.122.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpq_class::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.122.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpq_class::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.122.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpq_class::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.122.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpq_class::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.122.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpq_class::OK ()

11.122.3.63 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_-class::omega_reduce ()

11.122.3.64 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_-class::pairwise_reduce ()

11.122.3.65 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_mpq_class::refine_with_congruence (Congruence *c*)

11.122.3.66 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_mpq_class::refine_with_congruences (Congruence_System *c*)

11.122.3.67 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_mpq_class::refine_with_constraint (Constraint *c*)

11.122.3.68 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_mpq_class::refine_with_constraints (Constraint_System *c*)

11.122.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_mpq_class::relation_with (Congruence *c*)

11.122.3.70 native Poly_Gen_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_mpq_class::relation_with (Generator *c*)

11.122.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_mpq_class::relation_with (Constraint *c*)

11.122.3.72 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_mpq_class::remove_higher_space_dimensions (long *new_dimension*)

11.122.3.73 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_mpq_class::remove_space_dimensions (Variables_Set *vars*)

11.122.3.74 native boolean parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_mpq_class::simplify_using_context_assign (Pointset_Powerset_Octagonal_Shape_mpq_class *p*)

11.122.3.75 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_-class::size ()

11.122.3.76 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_-class::space_dimension ()

11.122.3.77 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpq_class::strictly_contains (Pointset_Powerset_Octagonal_Shape_mpq_class *y*)

11.122.3.78 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_mpq_class::swap (Pointset_Powerset_Octagonal_Shape_mpq_class *y*)

11.122.3.79 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpq_class::time_elapse_assign (Pointset_Powerset_Octagonal_Shape_mpq_class *p*)

11.122.3.80 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_-class::topological_closure_assign ()

11.122.3.81 native String parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_-class::toString ()

11.122.3.82 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_-class::total_memory_in_bytes ()

11.122.3.83 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_mpq_class::unconstrain_space_dimension (Variable *var*)

11.122.3.84 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_mpq_class::unconstrain_space_dimensions (Variables_Set *vars*)

11.122.3.85 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpq_class::upper_bound_assign (Pointset_Powerset_Octagonal_Shape_mpq_class *p*)

11.122.3.86 native boolean parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_mpq_class::upper_bound_assign_if_exact (Pointset_Powerset_Octagonal_Shape_mpq_class *y*)

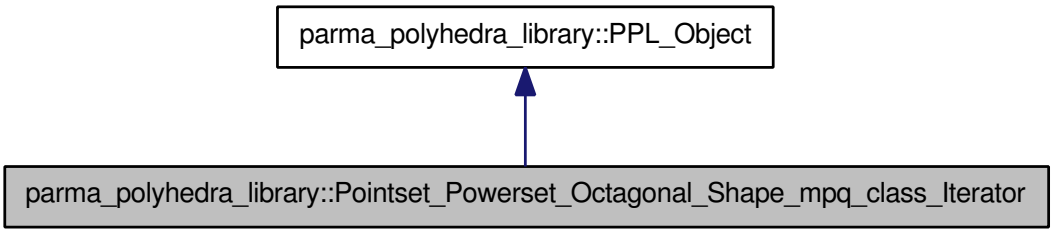
The documentation for this class was generated from the following file:

- Pointset_Powerset_Octagonal_Shape_mpq_class.java

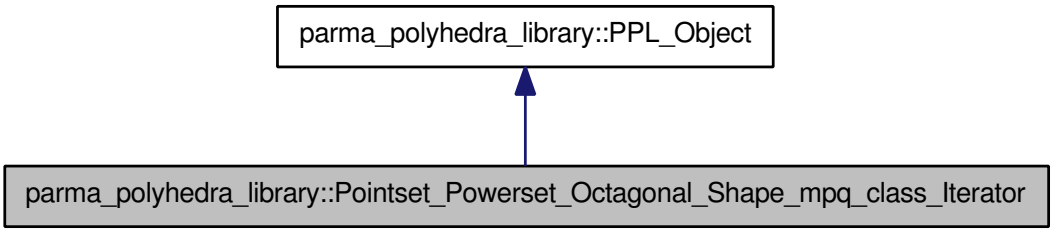
11.123 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_-class_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<mpq_-class> >:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class_-Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class_-Iterator:



Public Member Functions

- Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator (Pointset_Powerset_Octagonal_Shape_-mpq_class_Iterator y)
- native boolean equals (Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator itr)

- native void next ()
- native void prev ()
- native Octagonal_Shape_mpq_class get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Octagonal_Shape_mpq_class obj)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator y)

11.123.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<mpq_class> >:: iterator.

Definition at line 30 of file Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator.java.

11.123.2 Constructor & Destructor Documentation

11.123.2.1 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator::Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator.java.

11.123.2.2 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator::Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator (Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator.java.

References build_cpp_object().

11.123.3 Member Function Documentation

11.123.3.1 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator::build_cpp_object (Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator *y*) [private]

Referenced by Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator().

11.123.3.2 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator::build_ppl_object (Pointset_Powerset_Octagonal_Shape_mpq_class *obj*) [private]

11.123.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator::equals (Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator *itr*)

11.123.3.4 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator::finalize () [protected]

11.123.3.5 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator::free ()

11.123.3.6 native Octagonal_Shape_mpq_class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator::get_disjunct ()

11.123.3.7 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator::next ()

11.123.3.8 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator::prev ()

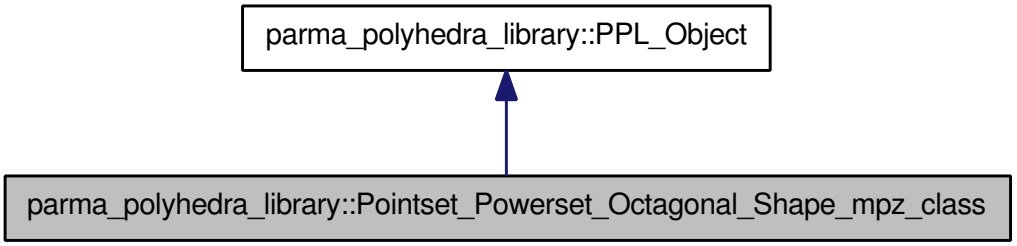
The documentation for this class was generated from the following file:

- Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator.java

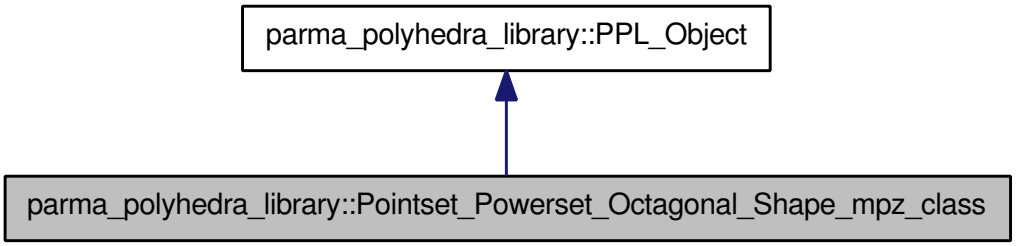
11.124 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<mpz_class> >

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class:



Public Member Functions

- Pointset_Powerset_Octagonal_Shape_mpz_class (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Octagonal_Shape_mpz_class (Pointset_Powerset_Octagonal_Shape_mpz_class y)
- Pointset_Powerset_Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class y)
- Pointset_Powerset_Octagonal_Shape_mpz_class (Pointset_Powerset_Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Pointset_Powerset_Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Pointset_Powerset_Octagonal_Shape_mpz_class (Constraint_System cs)
- Pointset_Powerset_Octagonal_Shape_mpz_class (Congruence_System cs)
- native void swap (Pointset_Powerset_Octagonal_Shape_mpz_class y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()

- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Octagonal_Shape_mpz_class y)
- native boolean strictly_contains (Pointset_Powerset_Octagonal_Shape_mpz_class y)
- native boolean is_disjoint_from (Pointset_Powerset_Octagonal_Shape_mpz_class y)
- native boolean geometrically_covers (Pointset_Powerset_Octagonal_Shape_mpz_class y)
- native boolean geometrically_equals (Pointset_Powerset_Octagonal_Shape_mpz_class y)
- native boolean equals (Pointset_Powerset_Octagonal_Shape_mpz_class p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Octagonal_Shape_mpz_class p)
- native void upper_bound_assign (Pointset_Powerset_Octagonal_Shape_mpz_class p)
- native void difference_assign (Pointset_Powerset_Octagonal_Shape_mpz_class p)
- native void concatenate_assign (Pointset_Powerset_Octagonal_Shape_mpz_class p)
- native void time_elapse_assign (Pointset_Powerset_Octagonal_Shape_mpz_class p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Octagonal_Shape_mpz_class y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Octagonal_Shape_mpz_class p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)

- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator begin_iterator ()
- native Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator end_iterator ()
- native void add_disjunct (Octagonal_Shape_mpz_class j_disj)
- native void drop_disjunct (Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator itr1, Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator itr2)
- native void BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_Octagonal_Shape_mpz_class y)
- native void BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_Octagonal_Shape_mpz_class y, Integer d)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Octagonal_Shape_mpz_class ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)

11.124.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<mpz_class> >

Definition at line 33 of file Pointset_Powerset_Octagonal_Shape_mpz_class.java.

11.124.2 Constructor & Destructor Documentation

11.124.2.1 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::Pointset_Powerset_Octagonal_Shape_mpz_class (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.124.2.2 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::Pointset_Powerset_Octagonal_Shape_mpz_class () [inline, private]

Definition at line 45 of file Pointset_Powerset_Octagonal_Shape_mpz_class.java.

11.124.2.3 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::Pointset_Powerset_Octagonal_Shape_mpz_class (Pointset_Powerset_Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.124.2.4 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::Pointset_Powerset_Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.124.2.5 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::Pointset_Powerset_Octagonal_Shape_mpz_class (Pointset_Powerset_Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.124.2.6 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::Pointset_Powerset_Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.124.2.7 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::Pointset_Powerset_Octagonal_Shape_mpz_class (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.124.2.8 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::Pointset_Powerset_Octagonal_Shape_mpz_class (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Octagonal_Shape_mpz_class.java.

References build_cpp_object().

11.124.3 Member Function Documentation

11.124.3.1 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::add_congruence (Congruence *c*)

11.124.3.2 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::add_congruences (Congruence_System *c*)

11.124.3.3 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::add_constraint (Constraint *c*)

11.124.3.4 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::add_constraints (Constraint_System *c*)

11.124.3.5 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::add_disjunct (Octagonal_Shape_mpz_class *j_disj*)

11.124.3.6 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::add_space_dimensions_and_embed (long *m*)

11.124.3.7 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::add_space_dimensions_and_project (long *m*)

11.124.3.8 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::affine_dimension ()

11.124.3.9 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.124.3.10 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.124.3.11 native String parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::ascii_dump ()

11.124.3.12 native Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::begin_iterator ()

11.124.3.13 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::BGP99_BHMZ05_extrapolation_assign (Pointset_Powerset_Octagonal_Shape_mpz_class *y*, Integer *d*)

11.124.3.14 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::BHZ03_H79_BHMZ05_widening_assign (Pointset_Powerset_Octagonal_Shape_mpz_class *y*)

11.124.3.15 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.124.3.16 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.124.3.17 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::bounds_from_above (Linear_Expression *expr*)

11.124.3.18 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::bounds_from_below (Linear_Expression *expr*)

11.124.3.19 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) `[private]`

11.124.3.20 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::build_cpp_object (Octagonal_Shape_mpz_class *y*) `[private]`

11.124.3.21 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::build_cpp_object (Pointset_Powerset_Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.124.3.22 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::build_cpp_object (Pointset_Powerset_Octagonal_Shape_mpz_class *y*) [private]

11.124.3.23 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.124.3.24 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::build_cpp_object (Congruence_System *cs*) [private]

11.124.3.25 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Octagonal_Shape_mpz_class().

11.124.3.26 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::concatenate_assign (Pointset_Powerset_Octagonal_Shape_mpz_class *p*)

11.124.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::constrains (Variable *var*)

11.124.3.28 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::contains (Pointset_Powerset_Octagonal_Shape_mpz_class *y*)

11.124.3.29 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::contains_integer_point ()

11.124.3.30 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::difference_assign (Pointset_Powerset_Octagonal_Shape_mpz_class *p*)

11.124.3.31 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::drop_disjunct (Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator *itr*)

11.124.3.32 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::drop_disjuncts (Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator *itr1*, Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator *itr2*)

11.124.3.33 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::drop_some_non_integer_points (Integer *complexity_threshold*)

11.124.3.34 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.124.3.35 native Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::end_iterator ()

11.124.3.36 boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_Octagonal_Shape_mpz_class.java.

References equals().

11.124.3.37 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_mpz_class::equals (Pointset_Powerset_Octagonal_Shape_mpz_class *p*)

Referenced by equals().

11.124.3.38 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_mpz_class::expand_space_dimension (Variable *var*, long *m*)

11.124.3.39 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_-class::external_memory_in_bytes ()

11.124.3.40 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_-class::finalize () `[protected]`

11.124.3.41 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_mpz_class::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.124.3.42 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_-class::free ()

11.124.3.43 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_-class::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.124.3.44 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpz_class::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.124.3.45 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.124.3.46 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.124.3.47 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::geometrically_covers (Pointset_Powerset_Octagonal_Shape_mpz_class *y*)

11.124.3.48 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::geometrically_equals (Pointset_Powerset_Octagonal_Shape_mpz_class *y*)

11.124.3.49 native int parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::hashCode ()

11.124.3.50 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::intersection_assign (Pointset_Powerset_Octagonal_Shape_mpz_class *p*)

11.124.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::is_bounded ()

11.124.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::is_discrete ()

11.124.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpz_class::is_disjoint_from (Pointset_Powerset_Octagonal_Shape_mpz_class *y*)

11.124.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpz_class::is_empty ()

11.124.3.55 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpz_class::is_topologically_closed ()

11.124.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpz_class::is_universe ()

11.124.3.57 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_mpz_class::map_space_dimensions (Partial_Function *pfunc*)

11.124.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpz_class::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.124.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpz_class::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.124.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpz_class::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.124.3.61 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.124.3.62 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::OK ()

11.124.3.63 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::omega_reduce ()

11.124.3.64 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::pairwise_reduce ()

11.124.3.65 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::refine_with_congruence (Congruence *c*)

11.124.3.66 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::refine_with_congruences (Congruence_System *c*)

11.124.3.67 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::refine_with_constraint (Constraint *c*)

11.124.3.68 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::refine_with_constraints (Constraint_System *c*)

11.124.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_mpz_class::relation_with (Congruence *c*)

11.124.3.70 native Poly_Gen_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_mpz_class::relation_with (Generator *c*)

11.124.3.71 native Poly_Con_Relation parma_polyhedra_library::Pointset_-Powerset_Octagonal_Shape_mpz_class::relation_with (Constraint *c*)

11.124.3.72 native void parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_mpz_class::remove_higher_space_dimensions (long *new_dimension*)

11.124.3.73 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_-Shape_mpz_class::remove_space_dimensions (Variables_Set *vars*)

11.124.3.74 native boolean parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_mpz_class::simplify_using_context_assign (Pointset_Powerset_Octagonal_Shape_mpz_class *p*)

11.124.3.75 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_-class::size ()

11.124.3.76 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_-class::space_dimension ()

11.124.3.77 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::strictly_contains (Pointset_Powerset_Octagonal_Shape_mpz_class *y*)

11.124.3.78 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::swap (Pointset_Powerset_Octagonal_Shape_mpz_class *y*)

11.124.3.79 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::time_elapse_assign (Pointset_Powerset_Octagonal_Shape_mpz_class *p*)

11.124.3.80 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::topological_closure_assign ()

11.124.3.81 native String parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::toString ()

11.124.3.82 native long parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::total_memory_in_bytes ()

11.124.3.83 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::unconstrain_space_dimension (Variable *var*)

11.124.3.84 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class::unconstrain_space_dimensions (Variables_Set *vars*)

11.124.3.85 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_-mpz_class::upper_bound_assign (Pointset_Powerset_Octagonal_Shape_mpz_class *p*)

11.124.3.86 native boolean parma_polyhedra_library::Pointset_Powerset_-Octagonal_Shape_mpz_class::upper_bound_assign_if_exact (Pointset_Powerset_Octagonal_Shape_mpz_class *y*)

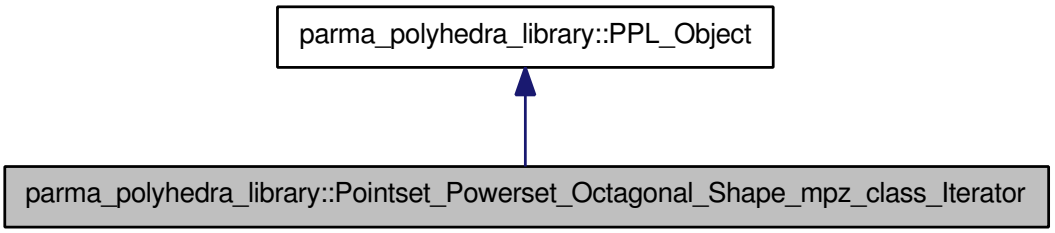
The documentation for this class was generated from the following file:

- Pointset_Powerset_Octagonal_Shape_mpz_class.java

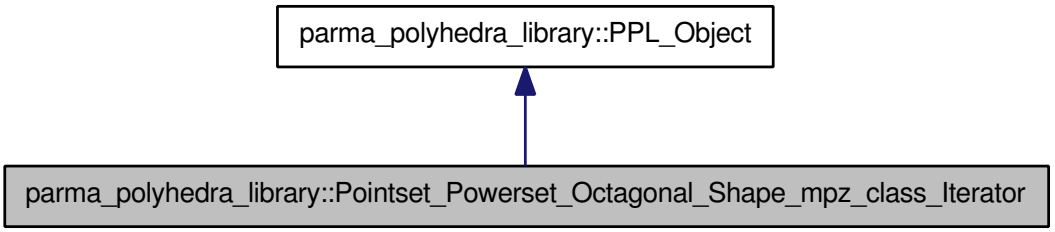
11.125 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_-class_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<mpz_-class> >:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class_-Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class_-Iterator:



Public Member Functions

- Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator (Pointset_Powerset_Octagonal_Shape_-mpz_class_Iterator y)
- native boolean equals (Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator itr)

- native void next ()
- native void prev ()
- native Octagonal_Shape_mpz_class get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Octagonal_Shape_mpz_class obj)
- native void build_cpp_object (Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator y)

11.125.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<mpz_class> >:: iterator.

Definition at line 30 of file Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator.java.

11.125.2 Constructor & Destructor Documentation

11.125.2.1 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator::Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator.java.

11.125.2.2 parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator::Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator (Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator.java.

References build_cpp_object().

11.125.3 Member Function Documentation

11.125.3.1 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator::build_cpp_object (Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator *y*) [private]

Referenced by Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator().

11.125.3.2 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator::build_ppl_object (Pointset_Powerset_Octagonal_Shape_mpz_class *obj*) [private]

11.125.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator::equals (Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator *itr*)

11.125.3.4 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator::finalize () [protected]

11.125.3.5 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator::free ()

11.125.3.6 native Octagonal_Shape_mpz_class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator::get_disjunct ()

11.125.3.7 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator::next ()

11.125.3.8 native void parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator::prev ()

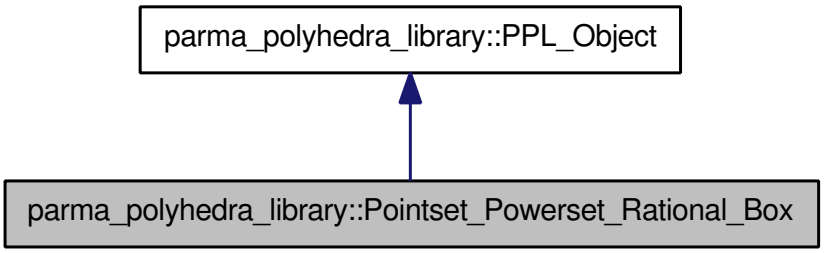
The documentation for this class was generated from the following file:

- Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator.java

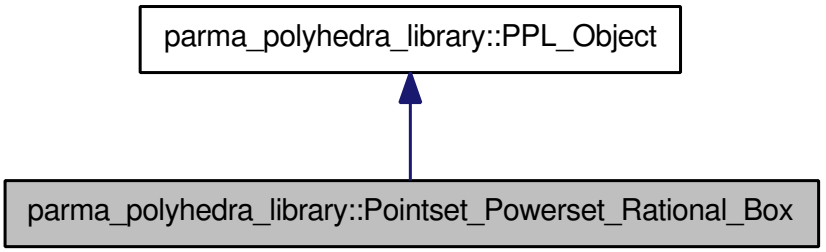
11.126 parma_polyhedra_library::Pointset_Powerset_Rational_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Rational_Box>

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Rational_Box:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Rational_Box:



Public Member Functions

- Pointset_Powerset_Rational_Box (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Rational_Box (Pointset_Powerset_Rational_Box y)
- Pointset_Powerset_Rational_Box (Rational_Box y)
- Pointset_Powerset_Rational_Box (Pointset_Powerset_Rational_Box y, Complexity_Class complexity)
- Pointset_Powerset_Rational_Box (Rational_Box y, Complexity_Class complexity)
- Pointset_Powerset_Rational_Box (Constraint_System cs)
- Pointset_Powerset_Rational_Box (Congruence_System cs)
- native void swap (Pointset_Powerset_Rational_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)

- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Rational_Box y)
- native boolean strictly_contains (Pointset_Powerset_Rational_Box y)
- native boolean is_disjoint_from (Pointset_Powerset_Rational_Box y)
- native boolean geometrically_covers (Pointset_Powerset_Rational_Box y)
- native boolean geometrically_equals (Pointset_Powerset_Rational_Box y)
- native boolean equals (Pointset_Powerset_Rational_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Rational_Box p)
- native void upper_bound_assign (Pointset_Powerset_Rational_Box p)
- native void difference_assign (Pointset_Powerset_Rational_Box p)
- native void concatenate_assign (Pointset_Powerset_Rational_Box p)
- native void time_elapse_assign (Pointset_Powerset_Rational_Box p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Rational_Box y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Rational_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)

- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Rational_Box_Iterator begin_iterator ()
- native Pointset_Powerset_Rational_Box_Iterator end_iterator ()
- native void add_disjunct (Rational_Box j_disj)
- native void drop_disjunct (Pointset_Powerset_Rational_Box_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Rational_Box_Iterator itr1, Pointset_Powerset_Rational_Box_Iterator itr2)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Rational_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Rational_Box y)
- native void build_cpp_object (Pointset_Powerset_Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)

11.126.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Rational_Box>

Definition at line 33 of file Pointset_Powerset_Rational_Box.java.

11.126.2 Constructor & Destructor Documentation

11.126.2.1 parma_polyhedra_library::Pointset_Powerset_Rational_Box::Pointset_Powerset_Rational_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Rational_Box.java.

References build_cpp_object().

11.126.2.2 parma_polyhedra_library::Pointset_Powerset_Rational_Box::Pointset_Powerset_Rational_Box () [inline, private]

Definition at line 45 of file Pointset_Powerset_Rational_Box.java.

11.126.2.3 parma_polyhedra_library::Pointset_Powerset_Rational_Box::Pointset_Powerset_Rational_Box (Pointset_Powerset_Rational_Box *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Rational_Box.java.

References build_cpp_object().

11.126.2.4 parma_polyhedra_library::Pointset_Powerset_Rational_Box::Pointset_Powerset_Rational_Box (Rational_Box *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Rational_Box.java.

References build_cpp_object().

11.126.2.5 parma_polyhedra_library::Pointset_Powerset_Rational_Box::Pointset_Powerset_Rational_Box (Pointset_Powerset_Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Rational_Box.java.

References build_cpp_object().

11.126.2.6 parma_polyhedra_library::Pointset_Powerset_Rational_Box::Pointset_Powerset_Rational_Box (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Rational_Box.java.

References build_cpp_object().

11.126.2.7 parma_polyhedra_library::Pointset_Powerset_Rational_Box::Pointset_Powerset_Rational_Box (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Rational_Box.java.

References build_cpp_object().

11.126.2.8 parma_polyhedra_library::Pointset_Powerset_Rational_Box::Pointset_Powerset_Rational_Box (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Rational_Box.java.

References build_cpp_object().

11.126.3 Member Function Documentation

11.126.3.1 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::add_congruence (Congruence *c*)

11.126.3.2 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::add_congruences (Congruence_System *c*)

11.126.3.3 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::add_constraint (Constraint *c*)

11.126.3.4 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::add_constraints (Constraint_System *c*)

11.126.3.5 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::add_disjunct (Rational_Box *j_disj*)

11.126.3.6 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::add_space_dimensions_and_embed (long *m*)

11.126.3.7 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::add_space_dimensions_and_project (long *m*)

11.126.3.8 native long parma_polyhedra_library::Pointset_Powerset_Rational_Box::affine_dimension ()

11.126.3.9 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.126.3.10 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.126.3.11 native String parma_polyhedra_library::Pointset_Powerset_Rational_Box::ascii_dump ()

11.126.3.12 native Pointset_Powerset_Rational_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Rational_Box::begin_iterator ()

11.126.3.13 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.126.3.14 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.126.3.15 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::bounds_from_above (Linear_Expression *expr*)

11.126.3.16 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::bounds_from_below (Linear_Expression *expr*)

11.126.3.17 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.126.3.18 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::build_cpp_object (Rational_Box *y*) [private]

11.126.3.19 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::build_cpp_object (Pointset_Powerset_Rational_Box *y*, Complexity_Class *complexity*) [private]

11.126.3.20 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::build_cpp_object (Pointset_Powerset_Rational_Box *y*) [private]

11.126.3.21 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.126.3.22 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::build_cpp_object (Congruence_System *cs*) [private]

11.126.3.23 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Rational_Box().

11.126.3.24 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::concatenate_assign (Pointset_Powerset_Rational_Box *p*)

11.126.3.25 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::constrains (Variable *var*)

11.126.3.26 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::contains (Pointset_Powerset_Rational_Box *y*)

11.126.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::contains_integer_point ()

11.126.3.28 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::difference_assign (Pointset_Powerset_Rational_Box *p*)

11.126.3.29 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::drop_disjunct (Pointset_Powerset_Rational_Box_Iterator *itr*)

11.126.3.30 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::drop_disjuncts (Pointset_Powerset_Rational_Box_Iterator *itr1*, Pointset_Powerset_Rational_Box_Iterator *itr2*)

11.126.3.31 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.126.3.32 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.126.3.33 native Pointset_Powerset_Rational_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Rational_Box::end_iterator ()

11.126.3.34 boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::equals (Object *y*) [inline]

Definition at line 190 of file Pointset_Powerset_Rational_Box.java.

References equals().

11.126.3.35 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::equals (Pointset_Powerset_Rational_Box *p*)

Referenced by equals().

11.126.3.36 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::expand_space_dimension (Variable *var*, long *m*)

11.126.3.37 native long parma_polyhedra_library::Pointset_Powerset_Rational_Box::external_memory_in_bytes ()

11.126.3.38 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::finalize () [protected]

11.126.3.39 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.126.3.40 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::free ()

11.126.3.41 native void parma_polyhedra_library::Pointset_Powerset_Rational_-Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.126.3.42 native void parma_polyhedra_library::Pointset_Powerset_Rational_-Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.126.3.43 native void parma_polyhedra_library::Pointset_Powerset_Rational_-Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.126.3.44 native void parma_polyhedra_library::Pointset_Powerset_Rational_-Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.126.3.45 native boolean parma_polyhedra_library::Pointset_Powerset_-Rational_Box::geometrically_covers (Pointset_Powerset_Rational_Box *y*)

11.126.3.46 native boolean parma_polyhedra_library::Pointset_Powerset_-Rational_Box::geometrically_equals (Pointset_Powerset_Rational_Box *y*)

11.126.3.47 native int parma_polyhedra_library::Pointset_Powerset_Rational_Box::hashCode ()

11.126.3.48 native void parma_polyhedra_library::Pointset_Powerset_-Rational_Box::intersection_assign (Pointset_Powerset_Rational_Box *p*)

11.126.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::is_bounded ()

11.126.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::is_discrete ()

11.126.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::is_disjoint_from (Pointset_Powerset_Rational_Box *y*)

11.126.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::is_empty ()

11.126.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::is_topologically_closed ()

11.126.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::is_universe ()

11.126.3.55 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::map_space_dimensions (Partial_Function *pfunc*)

11.126.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.126.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.126.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.126.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.126.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::OK ()

11.126.3.61 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::omega_reduce ()

11.126.3.62 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::pairwise_reduce ()

11.126.3.63 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::refine_with_congruence (Congruence *c*)

11.126.3.64 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::refine_with_congruences (Congruence_System *c*)

11.126.3.65 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::refine_with_constraint (Constraint *c*)

11.126.3.66 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::refine_with_constraints (Constraint_System *c*)

11.126.3.67 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Rational_Box::relation_with (Congruence *c*)

11.126.3.68 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_Rational_Box::relation_with (Generator *c*)

11.126.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Rational_Box::relation_with (Constraint *c*)

11.126.3.70 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::remove_higher_space_dimensions (long *new_dimension*)

11.126.3.71 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::remove_space_dimensions (Variables_Set *vars*)

11.126.3.72 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::simplify_using_context_assign (Pointset_Powerset_Rational_Box *p*)

11.126.3.73 native long parma_polyhedra_library::Pointset_Powerset_Rational_Box::size ()

11.126.3.74 native long parma_polyhedra_library::Pointset_Powerset_Rational_Box::space_dimension ()

11.126.3.75 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::strictly_contains (Pointset_Powerset_Rational_Box *y*)

11.126.3.76 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::swap (Pointset_Powerset_Rational_Box *y*)

11.126.3.77 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::time_elapse_assign (Pointset_Powerset_Rational_Box *p*)

11.126.3.78 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::topological_closure_assign ()

11.126.3.79 native String parma_polyhedra_library::Pointset_Powerset_Rational_Box::toString ()

11.126.3.80 native long parma_polyhedra_library::Pointset_Powerset_Rational_Box::total_memory_in_bytes ()

11.126.3.81 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::unconstrain_space_dimension (Variable *var*)

11.126.3.82 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.126.3.83 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box::upper_bound_assign (Pointset_Powerset_Rational_Box *p*)

11.126.3.84 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_Box::upper_bound_assign_if_exact (Pointset_Powerset_Rational_Box *y*)

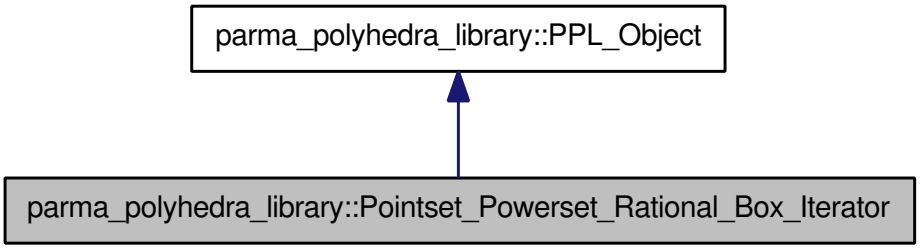
The documentation for this class was generated from the following file:

- Pointset_Powerset_Rational_Box.java

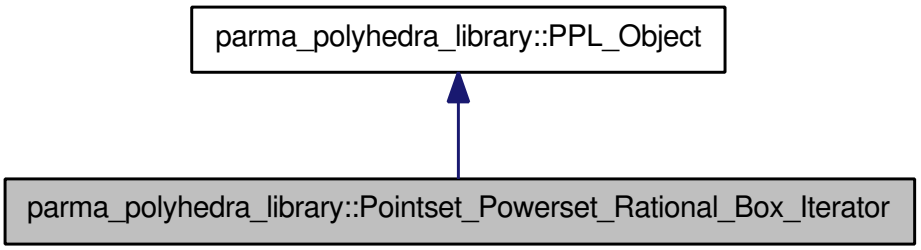
11.127 parma_polyhedra_library::Pointset_Powerset_Rational_Box_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Rational_Box>:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Rational_Box_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Rational_Box_Iterator:



Public Member Functions

- Pointset_Powerset_Rational_Box_Iterator (Pointset_Powerset_Rational_Box_Iterator y)
- native boolean equals (Pointset_Powerset_Rational_Box_Iterator itr)
- native void next ()
- native void prev ()
- native Rational_Box get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Rational_Box_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Rational_Box obj)
- native void build_cpp_object (Pointset_Powerset_Rational_Box_Iterator y)

11.127.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Rational_Box>:: iterator.

Definition at line 30 of file Pointset_Powerset_Rational_Box_Iterator.java.

11.127.2 Constructor & Destructor Documentation

11.127.2.1 parma_polyhedra_library::Pointset_Powerset_Rational_Box_-Iterator::Pointset_Powerset_Rational_Box_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Rational_Box_Iterator.java.

11.127.2.2 parma_polyhedra_library::Pointset_Powerset_Rational_Box_Iterator::Pointset_-Powerset_Rational_Box_Iterator (Pointset_Powerset_Rational_Box_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Rational_Box_Iterator.java.

References build_cpp_object().

11.127.3 Member Function Documentation

11.127.3.1 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box_-Iterator::build_cpp_object (Pointset_Powerset_Rational_Box_Iterator *y*) [private]

Referenced by Pointset_Powerset_Rational_Box_Iterator().

11.127.3.2 native void parma_polyhedra_library::Pointset_Powerset_Rational_-Box_Iterator::build_ppl_object (Pointset_Powerset_Rational_Box *obj*) [private]

11.127.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Rational_-Box_Iterator::equals (Pointset_Powerset_Rational_Box_Iterator *itr*)

11.127.3.4 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box_-Iterator::finalize () [protected]

11.127.3.5 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box_Iterator::free ()

11.127.3.6 native Rational_Box parma_polyhedra_library::Pointset_Powerset_Rational_Box_Iterator::get_disjunct ()

11.127.3.7 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box_Iterator::next ()

11.127.3.8 native void parma_polyhedra_library::Pointset_Powerset_Rational_Box_Iterator::prev ()

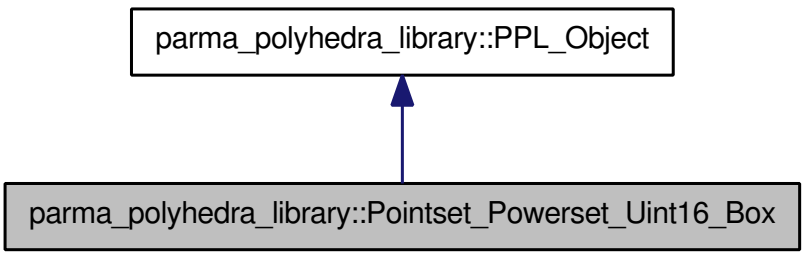
The documentation for this class was generated from the following file:

- Pointset_Powerset_Rational_Box_Iterator.java

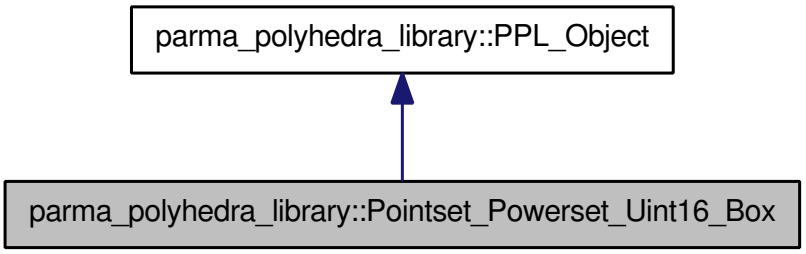
11.128 parma_polyhedra_library::Pointset_Powerset_Uint16_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint16_Box>

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Uint16_Box:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Uint16_Box:



Public Member Functions

- Pointset_Powerset_Uint16_Box (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Uint16_Box (Pointset_Powerset_Uint16_Box y)
- Pointset_Powerset_Uint16_Box (Uint16_Box y)
- Pointset_Powerset_Uint16_Box (Pointset_Powerset_Uint16_Box y, Complexity_Class complexity)
- Pointset_Powerset_Uint16_Box (Uint16_Box y, Complexity_Class complexity)
- Pointset_Powerset_Uint16_Box (Constraint_System cs)
- Pointset_Powerset_Uint16_Box (Congruence_System cs)
- native void swap (Pointset_Powerset_Uint16_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Uint16_Box y)
- native boolean strictly_contains (Pointset_Powerset_Uint16_Box y)
- native boolean is_disjoint_from (Pointset_Powerset_Uint16_Box y)
- native boolean geometrically_covers (Pointset_Powerset_Uint16_Box y)

- native boolean geometrically_equals (Pointset_Powerset_Uint16_Box y)
- native boolean equals (Pointset_Powerset_Uint16_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Uint16_Box p)
- native void upper_bound_assign (Pointset_Powerset_Uint16_Box p)
- native void difference_assign (Pointset_Powerset_Uint16_Box p)
- native void concatenate_assign (Pointset_Powerset_Uint16_Box p)
- native void time_elapse_assign (Pointset_Powerset_Uint16_Box p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Uint16_Box y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Uint16_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Uint16_Box_Iterator begin_iterator ()

- native Pointset_Powerset_Uint16_Box_Iterator end_iterator ()
- native void add_disjunct (Uint16_Box j_disj)
- native void drop_disjunct (Pointset_Powerset_Uint16_Box_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Uint16_Box_Iterator itr1, Pointset_Powerset_Uint16_Box_Iterator itr2)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Uint16_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Uint16_Box y)
- native void build_cpp_object (Pointset_Powerset_Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)

11.128.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint16_Box>

Definition at line 33 of file Pointset_Powerset_Uint16_Box.java.

11.128.2 Constructor & Destructor Documentation

11.128.2.1 parma_polyhedra_library::Pointset_Powerset_Uint16_Box::Pointset_Powerset_Uint16_Box (long *num_dimensions*, Degenerate_Element *kind*) `[inline]`

Definition at line 40 of file Pointset_Powerset_Uint16_Box.java.

References build_cpp_object().

11.128.2.2 parma_polyhedra_library::Pointset_Powerset_Uint16_Box::Pointset_Powerset_Uint16_Box () `[inline, private]`

Definition at line 45 of file Pointset_Powerset_Uint16_Box.java.

11.128.2.3 parma_polyhedra_library::Pointset_Powerset_Uint16_Box::Pointset_Powerset_Uint16_Box (Pointset_Powerset_Uint16_Box *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Uint16_Box.java.

References build_cpp_object().

11.128.2.4 parma_polyhedra_library::Pointset_Powerset_Uint16_Box::Pointset_Powerset_Uint16_Box (Uint16_Box *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Uint16_Box.java.

References build_cpp_object().

11.128.2.5 parma_polyhedra_library::Pointset_Powerset_Uint16_Box::Pointset_Powerset_Uint16_Box (Pointset_Powerset_Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Uint16_Box.java.

References build_cpp_object().

11.128.2.6 parma_polyhedra_library::Pointset_Powerset_Uint16_Box::Pointset_Powerset_Uint16_Box (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Uint16_Box.java.

References build_cpp_object().

11.128.2.7 parma_polyhedra_library::Pointset_Powerset_Uint16_Box::Pointset_Powerset_Uint16_Box (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Uint16_Box.java.

References build_cpp_object().

11.128.2.8 parma_polyhedra_library::Pointset_Powerset_Uint16_Box::Pointset_Powerset_Uint16_Box (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Uint16_Box.java.

References build_cpp_object().

11.128.3 Member Function Documentation

11.128.3.1 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::add_congruence (Congruence *c*)

11.128.3.2 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::add_congruences (Congruence_System *c*)

11.128.3.3 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::add_constraint (Constraint *c*)

11.128.3.4 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::add_constraints (Constraint_System *c*)

11.128.3.5 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::add_disjunct (Uint16_Box *j_disj*)

11.128.3.6 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::add_space_dimensions_and_embed (long *m*)

11.128.3.7 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::add_space_dimensions_and_project (long *m*)

11.128.3.8 native long parma_polyhedra_library::Pointset_Powerset_Uint16_Box::affine_dimension ()

11.128.3.9 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.128.3.10 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.128.3.11 native String parma_polyhedra_library::Pointset_Powerset_Uint16_Box::ascii_dump ()

11.128.3.12 native Pointset_Powerset_Uint16_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Uint16_Box::begin_iterator ()

11.128.3.13 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.128.3.14 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.128.3.15 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::bounds_from_above (Linear_Expression *expr*)

11.128.3.16 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::bounds_from_below (Linear_Expression *expr*)

11.128.3.17 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) `[private]`

11.128.3.18 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::build_cpp_object (Uint16_Box *y*) `[private]`

11.128.3.19 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::build_cpp_object (Pointset_Powerset_Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.128.3.20 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::build_cpp_object (Pointset_Powerset_Uint16_Box *y*) [private]

11.128.3.21 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.128.3.22 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::build_cpp_object (Congruence_System *cs*) [private]

11.128.3.23 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Uint16_Box().

11.128.3.24 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::concatenate_assign (Pointset_Powerset_Uint16_Box *p*)

11.128.3.25 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::constrains (Variable *var*)

11.128.3.26 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::contains (Pointset_Powerset_Uint16_Box *y*)

11.128.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::contains_integer_point ()

11.128.3.28 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::difference_assign (Pointset_Powerset_Uint16_Box *p*)

11.128.3.29 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::drop_disjunct (Pointset_Powerset_Uint16_Box_Iterator *itr*)

11.128.3.30 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::drop_disjuncts (Pointset_Powerset_Uint16_Box_Iterator *itr1*, Pointset_Powerset_Uint16_Box_Iterator *itr2*)

11.128.3.31 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.128.3.32 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.128.3.33 native Pointset_Powerset_Uint16_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Uint16_Box::end_iterator ()

11.128.3.34 boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_Uint16_Box.java.

References equals().

11.128.3.35 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::equals (Pointset_Powerset_Uint16_Box *p*)

Referenced by equals().

11.128.3.36 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::expand_space_dimension (Variable *var*, long *m*)

11.128.3.37 native long parma_polyhedra_library::Pointset_Powerset_Uint16_Box::external_memory_in_bytes ()

11.128.3.38 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::finalize () `[protected]`

11.128.3.39 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.128.3.40 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::free ()

11.128.3.41 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.128.3.42 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.128.3.43 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.128.3.44 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.128.3.45 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::geometrically_covers (Pointset_Powerset_Uint16_Box *y*)

11.128.3.46 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::geometrically_equals (Pointset_Powerset_Uint16_Box *y*)

11.128.3.47 native int parma_polyhedra_library::Pointset_Powerset_Uint16_Box::hashCode ()

11.128.3.48 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::intersection_assign (Pointset_Powerset_Uint16_Box *p*)

11.128.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::is_bounded ()

11.128.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::is_discrete ()

11.128.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::is_disjoint_from (Pointset_Powerset_Uint16_Box *y*)

11.128.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::is_empty ()

11.128.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::is_-topologically_closed ()

11.128.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::is_-universe ()

11.128.3.55 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::map_space_-dimensions (Partial_Function *pfunc*)

11.128.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.128.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.128.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.128.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.128.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::OK ()

11.128.3.61 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::omega_-reduce ()

11.128.3.62 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::pairwise_reduce ()

11.128.3.63 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::refine_with_congruence (Congruence *c*)

11.128.3.64 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::refine_with_congruences (Congruence_System *c*)

11.128.3.65 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::refine_with_constraint (Constraint *c*)

11.128.3.66 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::refine_with_constraints (Constraint_System *c*)

11.128.3.67 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Uint16_Box::relation_with (Congruence *c*)

11.128.3.68 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_Uint16_Box::relation_with (Generator *c*)

11.128.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Uint16_Box::relation_with (Constraint *c*)

11.128.3.70 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::remove_higher_space_dimensions (long *new_dimension*)

11.128.3.71 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::remove_space_dimensions (Variables_Set *vars*)

11.128.3.72 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::simplify_using_context_assign (Pointset_Powerset_Uint16_Box *p*)

11.128.3.73 native long parma_polyhedra_library::Pointset_Powerset_Uint16_Box::size ()

11.128.3.74 native long parma_polyhedra_library::Pointset_Powerset_Uint16_Box::space_dimension ()

11.128.3.75 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::strictly_contains (Pointset_Powerset_Uint16_Box *y*)

11.128.3.76 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::swap (Pointset_Powerset_Uint16_Box *y*)

11.128.3.77 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::time_elapse_assign (Pointset_Powerset_Uint16_Box *p*)

11.128.3.78 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::topological_closure_assign ()

11.128.3.79 native String parma_polyhedra_library::Pointset_Powerset_Uint16_Box::toString ()

11.128.3.80 native long parma_polyhedra_library::Pointset_Powerset_Uint16_Box::total_memory_in_bytes ()

11.128.3.81 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::unconstrain_space_dimension (Variable *var*)

11.128.3.82 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.128.3.83 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box::upper_bound_assign (Pointset_Powerset_Uint16_Box *p*)

11.128.3.84 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box::upper_bound_assign_if_exact (Pointset_Powerset_Uint16_Box *y*)

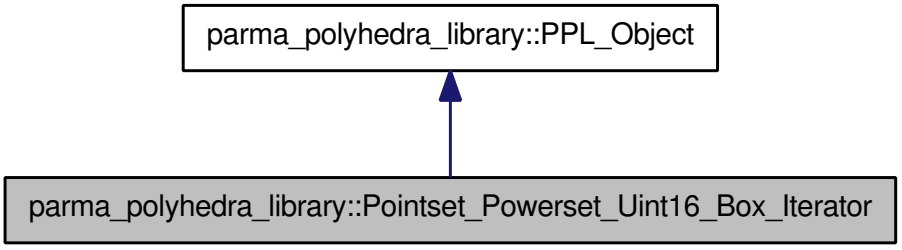
The documentation for this class was generated from the following file:

- Pointset_Powerset_Uint16_Box.java

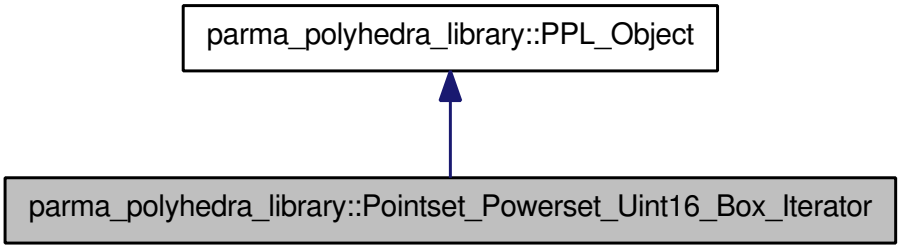
11.129 parma_polyhedra_library::Pointset_Powerset_Uint16_Box_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint16_Box>:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Uint16_Box_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Uint16_Box_Iterator:



Public Member Functions

- Pointset_Powerset_Uint16_Box_Iterator (Pointset_Powerset_Uint16_Box_Iterator y)
- native boolean equals (Pointset_Powerset_Uint16_Box_Iterator itr)
- native void next ()
- native void prev ()
- native Uint16_Box get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Uint16_Box_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Uint16_Box obj)
- native void build_cpp_object (Pointset_Powerset_Uint16_Box_Iterator y)

11.129.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint16_Box>:: iterator.

Definition at line 30 of file Pointset_Powerset_Uint16_Box_Iterator.java.

11.129.2 Constructor & Destructor Documentation

11.129.2.1 parma_polyhedra_library::Pointset_Powerset_Uint16_Box_-Iterator::Pointset_Powerset_Uint16_Box_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Uint16_Box_Iterator.java.

11.129.2.2 parma_polyhedra_library::Pointset_Powerset_Uint16_Box_Iterator::Pointset_Powerset_Uint16_Box_Iterator (Pointset_Powerset_Uint16_Box_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Uint16_Box_Iterator.java.

References build_cpp_object().

11.129.3 Member Function Documentation

11.129.3.1 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box_Iterator::build_cpp_object (Pointset_Powerset_Uint16_Box_Iterator *y*) [private]

Referenced by Pointset_Powerset_Uint16_Box_Iterator().

11.129.3.2 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box_Iterator::build_ppl_object (Pointset_Powerset_Uint16_Box *obj*) [private]

11.129.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Uint16_Box_Iterator::equals (Pointset_Powerset_Uint16_Box_Iterator *itr*)

11.129.3.4 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box_Iterator::finalize () [protected]

11.129.3.5 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box_Iterator::free ()

11.129.3.6 native Uint16_Box parma_polyhedra_library::Pointset_Powerset_Uint16_Box_Iterator::get_disjunct ()

11.129.3.7 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box_Iterator::next ()

11.129.3.8 native void parma_polyhedra_library::Pointset_Powerset_Uint16_Box_Iterator::prev ()

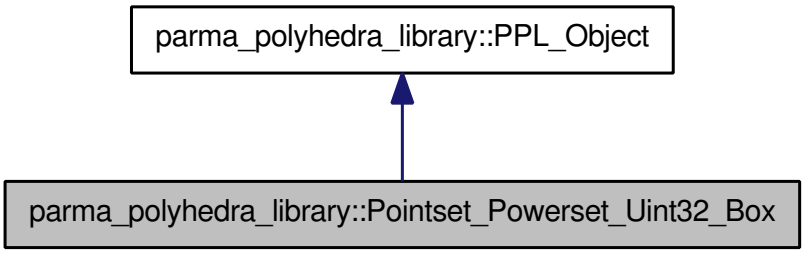
The documentation for this class was generated from the following file:

- Pointset_Powerset_Uint16_Box_Iterator.java

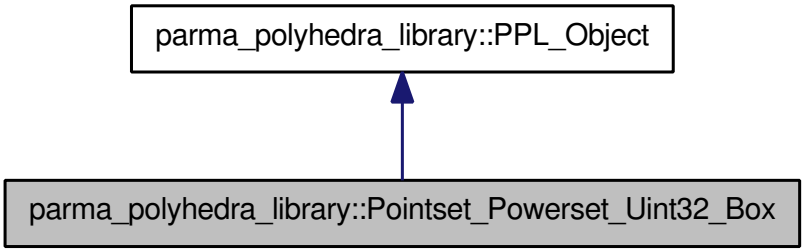
11.130 parma_polyhedra_library::Pointset_Powerset_Uint32_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint32_Box>

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Uint32_Box:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Uint32_Box:



Public Member Functions

- Pointset_Powerset_Uint32_Box (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Uint32_Box (Pointset_Powerset_Uint32_Box y)
- Pointset_Powerset_Uint32_Box (Uint32_Box y)
- Pointset_Powerset_Uint32_Box (Pointset_Powerset_Uint32_Box y, Complexity_Class complexity)
- Pointset_Powerset_Uint32_Box (Uint32_Box y, Complexity_Class complexity)
- Pointset_Powerset_Uint32_Box (Constraint_System cs)
- Pointset_Powerset_Uint32_Box (Congruence_System cs)
- native void swap (Pointset_Powerset_Uint32_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)

- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Uint32_Box y)
- native boolean strictly_contains (Pointset_Powerset_Uint32_Box y)
- native boolean is_disjoint_from (Pointset_Powerset_Uint32_Box y)
- native boolean geometrically_covers (Pointset_Powerset_Uint32_Box y)
- native boolean geometrically_equals (Pointset_Powerset_Uint32_Box y)
- native boolean equals (Pointset_Powerset_Uint32_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Uint32_Box p)
- native void upper_bound_assign (Pointset_Powerset_Uint32_Box p)
- native void difference_assign (Pointset_Powerset_Uint32_Box p)
- native void concatenate_assign (Pointset_Powerset_Uint32_Box p)
- native void time_elapse_assign (Pointset_Powerset_Uint32_Box p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Uint32_Box y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Uint32_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)

- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Uint32_Box_Iterator begin_iterator ()
- native Pointset_Powerset_Uint32_Box_Iterator end_iterator ()
- native void add_disjunct (Uint32_Box j_disj)
- native void drop_disjunct (Pointset_Powerset_Uint32_Box_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Uint32_Box_Iterator itr1, Pointset_Powerset_Uint32_Box_Iterator itr2)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Uint32_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Uint32_Box y)
- native void build_cpp_object (Pointset_Powerset_Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)

11.130.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint32_Box>

Definition at line 33 of file Pointset_Powerset_Uint32_Box.java.

11.130.2 Constructor & Destructor Documentation

11.130.2.1 parma_polyhedra_library::Pointset_Powerset_Uint32_Box::Pointset_Powerset_Uint32_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Uint32_Box.java.

References build_cpp_object().

11.130.2.2 parma_polyhedra_library::Pointset_Powerset_Uint32_Box::Pointset_Powerset_Uint32_Box () [inline, private]

Definition at line 45 of file Pointset_Powerset_Uint32_Box.java.

11.130.2.3 parma_polyhedra_library::Pointset_Powerset_Uint32_Box::Pointset_Powerset_Uint32_Box (Pointset_Powerset_Uint32_Box *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Uint32_Box.java.

References build_cpp_object().

11.130.2.4 parma_polyhedra_library::Pointset_Powerset_Uint32_Box::Pointset_Powerset_Uint32_Box (Uint32_Box *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Uint32_Box.java.

References build_cpp_object().

11.130.2.5 parma_polyhedra_library::Pointset_Powerset_Uint32_Box::Pointset_Powerset_Uint32_Box (Pointset_Powerset_Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Uint32_Box.java.

References build_cpp_object().

11.130.2.6 parma_polyhedra_library::Pointset_Powerset_Uint32_Box::Pointset_Powerset_Uint32_Box (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Uint32_Box.java.

References build_cpp_object().

11.130.2.7 parma_polyhedra_library::Pointset_Powerset_Uint32_Box::Pointset_Powerset_Uint32_Box (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Uint32_Box.java.

References build_cpp_object().

11.130.2.8 parma_polyhedra_library::Pointset_Powerset_Uint32_Box::Pointset_Powerset_Uint32_Box (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Uint32_Box.java.

References build_cpp_object().

11.130.3 Member Function Documentation

11.130.3.1 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::add_congruence (Congruence *c*)

11.130.3.2 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::add_congruences (Congruence_System *c*)

11.130.3.3 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::add_constraint (Constraint *c*)

11.130.3.4 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::add_constraints (Constraint_System *c*)

11.130.3.5 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::add_disjunct (Uint32_Box *j_disj*)

11.130.3.6 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::add_space_dimensions_and_embed (long *m*)

11.130.3.7 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::add_space_dimensions_and_project (long *m*)

11.130.3.8 native long parma_polyhedra_library::Pointset_Powerset_Uint32_Box::affine_dimension ()

11.130.3.9 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.130.3.10 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.130.3.11 native String parma_polyhedra_library::Pointset_Powerset_Uint32_Box::ascii_dump ()

11.130.3.12 native Pointset_Powerset_Uint32_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Uint32_Box::begin_iterator ()

11.130.3.13 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.130.3.14 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.130.3.15 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::bounds_from_above (Linear_Expression *expr*)

11.130.3.16 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::bounds_from_below (Linear_Expression *expr*)

11.130.3.17 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.130.3.18 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::build_cpp_object (Uint32_Box *y*) [private]

11.130.3.19 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::build_cpp_object (Pointset_Powerset_Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.130.3.20 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::build_cpp_object (Pointset_Powerset_Uint32_Box *y*) [private]

11.130.3.21 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.130.3.22 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::build_cpp_-object (Congruence_System *cs*) [private]

11.130.3.23 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::build_cpp_-object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Uint32_Box().

11.130.3.24 native void parma_polyhedra_library::Pointset_Powerset_-Uint32_Box::concatenate_assign (Pointset_Powerset_Uint32_Box *p*)

11.130.3.25 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::constrains (Variable *var*)

11.130.3.26 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::contains (Pointset_Powerset_Uint32_Box *y*)

11.130.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::contains_-integer_point ()

11.130.3.28 native void parma_polyhedra_library::Pointset_Powerset_-Uint32_Box::difference_assign (Pointset_Powerset_Uint32_Box *p*)

11.130.3.29 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::drop_disjunct (Pointset_Powerset_Uint32_Box_Iterator *itr*)

11.130.3.30 native void parma_polyhedra_library::Pointset_Powerset_Uint32_-Box::drop_disjuncts (Pointset_Powerset_Uint32_Box_Iterator *itr1*, Pointset_Powerset_Uint32_Box_Iterator *itr2*)

11.130.3.31 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.130.3.32 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.130.3.33 native Pointset_Powerset_Uint32_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Uint32_Box::end_iterator ()

11.130.3.34 boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_Uint32_Box.java.

References equals().

11.130.3.35 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::equals (Pointset_Powerset_Uint32_Box *p*)

Referenced by equals().

11.130.3.36 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::expand_space_dimension (Variable *var*, long *m*)

11.130.3.37 native long parma_polyhedra_library::Pointset_Powerset_Uint32_Box::external_memory_in_bytes ()

11.130.3.38 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::finalize () `[protected]`

11.130.3.39 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.130.3.40 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::free ()

11.130.3.41 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.130.3.42 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.130.3.43 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.130.3.44 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.130.3.45 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::geometrically_covers (Pointset_Powerset_Uint32_Box *y*)

11.130.3.46 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::geometrically_equals (Pointset_Powerset_Uint32_Box *y*)

11.130.3.47 native int parma_polyhedra_library::Pointset_Powerset_Uint32_Box::hashCode ()

11.130.3.48 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::intersection_assign (Pointset_Powerset_Uint32_Box *p*)

11.130.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::is_bounded ()

11.130.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::is_discrete ()

11.130.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::is_disjoint_from (Pointset_Powerset_Uint32_Box *y*)

11.130.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::is_empty ()

11.130.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::is_topologically_closed ()

11.130.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::is_universe ()

11.130.3.55 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::map_space_dimensions (Partial_Function *pfunc*)

11.130.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.130.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.130.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.130.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.130.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::OK ()

11.130.3.61 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::omega_reduce ()

11.130.3.62 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::pairwise_reduce ()

11.130.3.63 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::refine_with_congruence (Congruence *c*)

11.130.3.64 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::refine_with_congruences (Congruence_System *c*)

11.130.3.65 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::refine_with_constraint (Constraint *c*)

11.130.3.66 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::refine_with_constraints (Constraint_System *c*)

11.130.3.67 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Uint32_Box::relation_with (Congruence *c*)

11.130.3.68 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_Uint32_Box::relation_with (Generator *c*)

11.130.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Uint32_Box::relation_with (Constraint *c*)

11.130.3.70 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::remove_higher_space_dimensions (long *new_dimension*)

11.130.3.71 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::remove_space_dimensions (Variables_Set *vars*)

11.130.3.72 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::simplify_using_context_assign (Pointset_Powerset_Uint32_Box *p*)

11.130.3.73 native long parma_polyhedra_library::Pointset_Powerset_Uint32_Box::size ()

11.130.3.74 native long parma_polyhedra_library::Pointset_Powerset_Uint32_Box::space_dimension ()

11.130.3.75 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box::strictly_contains (Pointset_Powerset_Uint32_Box *y*)

11.130.3.76 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::swap (Pointset_Powerset_Uint32_Box *y*)

11.130.3.77 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::time_elapse_assign (Pointset_Powerset_Uint32_Box *p*)

11.130.3.78 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::topological_closure_assign ()

11.130.3.79 native String parma_polyhedra_library::Pointset_Powerset_Uint32_Box::toString ()

11.130.3.80 native long parma_polyhedra_library::Pointset_Powerset_Uint32_Box::total_memory_in_bytes ()

11.130.3.81 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::unconstrain_space_dimension (Variable *var*)

11.130.3.82 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.130.3.83 native void parma_polyhedra_library::Pointset_Powerset_-Uint32_Box::upper_bound_assign (Pointset_Powerset_Uint32_Box *p*)

11.130.3.84 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_-Box::upper_bound_assign_if_exact (Pointset_Powerset_Uint32_Box *y*)

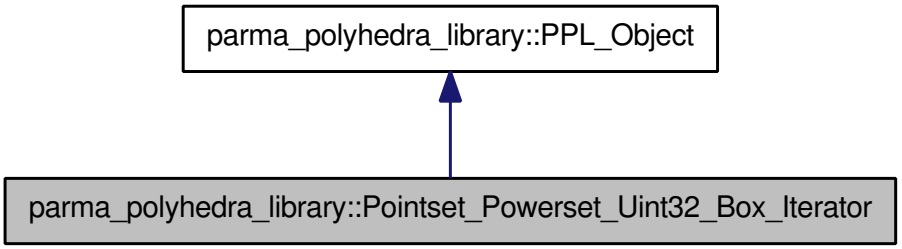
The documentation for this class was generated from the following file:

- Pointset_Powerset_Uint32_Box.java

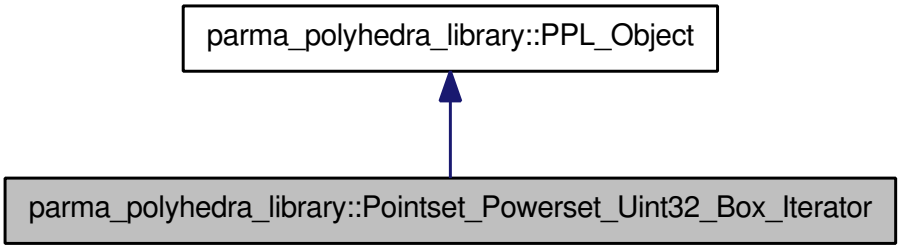
11.131 parma_polyhedra_library::Pointset_Powerset_Uint32_Box_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint32_Box>:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Uint32_Box_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Uint32_Box_Iterator:



Public Member Functions

- Pointset_Powerset_Uint32_Box_Iterator (Pointset_Powerset_Uint32_Box_Iterator y)
- native boolean equals (Pointset_Powerset_Uint32_Box_Iterator itr)
- native void next ()
- native void prev ()

- native Uint32_Box get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Uint32_Box_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Uint32_Box obj)
- native void build_cpp_object (Pointset_Powerset_Uint32_Box_Iterator y)

11.131.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint32_Box>:: iterator.

Definition at line 30 of file Pointset_Powerset_Uint32_Box_Iterator.java.

11.131.2 Constructor & Destructor Documentation

11.131.2.1 parma_polyhedra_library::Pointset_Powerset_Uint32_Box_-Iterator::Pointset_Powerset_Uint32_Box_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Uint32_Box_Iterator.java.

11.131.2.2 parma_polyhedra_library::Pointset_Powerset_Uint32_Box_Iterator::Pointset_-Powerset_Uint32_Box_Iterator (Pointset_Powerset_Uint32_Box_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Uint32_Box_Iterator.java.

References build_cpp_object().

11.131.3 Member Function Documentation

11.131.3.1 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box_-Iterator::build_cpp_object (Pointset_Powerset_Uint32_Box_Iterator *y*) [private]

Referenced by Pointset_Powerset_Uint32_Box_Iterator().

11.131.3.2 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box_Iterator::build_ppl_object (Pointset_Powerset_Uint32_Box *obj*) [private]

11.131.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Uint32_Box_Iterator::equals (Pointset_Powerset_Uint32_Box_Iterator *itr*)

11.131.3.4 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box_Iterator::finalize () [protected]

11.131.3.5 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box_Iterator::free ()

11.131.3.6 native Uint32_Box parma_polyhedra_library::Pointset_Powerset_Uint32_Box_Iterator::get_disjunct ()

11.131.3.7 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box_Iterator::next ()

11.131.3.8 native void parma_polyhedra_library::Pointset_Powerset_Uint32_Box_Iterator::prev ()

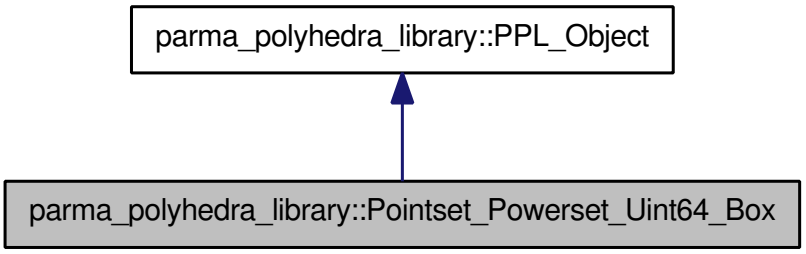
The documentation for this class was generated from the following file:

- Pointset_Powerset_Uint32_Box_Iterator.java

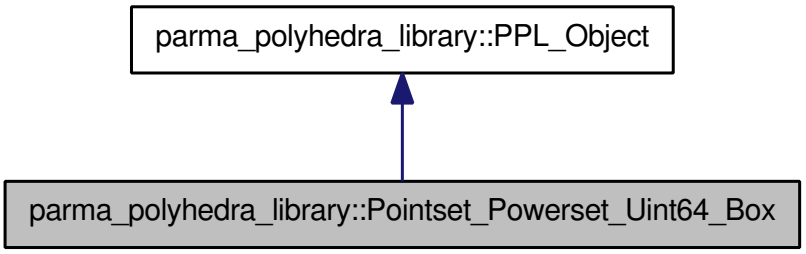
11.132 parma_polyhedra_library::Pointset_Powerset_Uint64_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint64_Box>

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Uint64_Box:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Uint64_Box:



Public Member Functions

- Pointset_Powerset_Uint64_Box (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Uint64_Box (Pointset_Powerset_Uint64_Box y)
- Pointset_Powerset_Uint64_Box (Uint64_Box y)
- Pointset_Powerset_Uint64_Box (Pointset_Powerset_Uint64_Box y, Complexity_Class complexity)
- Pointset_Powerset_Uint64_Box (Uint64_Box y, Complexity_Class complexity)
- Pointset_Powerset_Uint64_Box (Constraint_System cs)
- Pointset_Powerset_Uint64_Box (Congruence_System cs)
- native void swap (Pointset_Powerset_Uint64_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)

- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Uint64_Box y)
- native boolean strictly_contains (Pointset_Powerset_Uint64_Box y)
- native boolean is_disjoint_from (Pointset_Powerset_Uint64_Box y)
- native boolean geometrically_covers (Pointset_Powerset_Uint64_Box y)
- native boolean geometrically_equals (Pointset_Powerset_Uint64_Box y)
- native boolean equals (Pointset_Powerset_Uint64_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Uint64_Box p)
- native void upper_bound_assign (Pointset_Powerset_Uint64_Box p)
- native void difference_assign (Pointset_Powerset_Uint64_Box p)
- native void concatenate_assign (Pointset_Powerset_Uint64_Box p)
- native void time_elapse_assign (Pointset_Powerset_Uint64_Box p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Uint64_Box y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Uint64_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)

- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Uint64_Box_Iterator begin_iterator ()
- native Pointset_Powerset_Uint64_Box_Iterator end_iterator ()
- native void add_disjunct (Uint64_Box j_disj)
- native void drop_disjunct (Pointset_Powerset_Uint64_Box_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Uint64_Box_Iterator itr1, Pointset_Powerset_Uint64_Box_Iterator itr2)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Uint64_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Uint64_Box y)
- native void build_cpp_object (Pointset_Powerset_Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)

11.132.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint64_Box>

Definition at line 33 of file Pointset_Powerset_Uint64_Box.java.

11.132.2 Constructor & Destructor Documentation

11.132.2.1 parma_polyhedra_library::Pointset_Powerset_Uint64_Box::Pointset_Powerset_Uint64_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Uint64_Box.java.

References build_cpp_object().

11.132.2.2 parma_polyhedra_library::Pointset_Powerset_Uint64_Box::Pointset_Powerset_Uint64_Box () [inline, private]

Definition at line 45 of file Pointset_Powerset_Uint64_Box.java.

11.132.2.3 parma_polyhedra_library::Pointset_Powerset_Uint64_Box::Pointset_Powerset_Uint64_Box (Pointset_Powerset_Uint64_Box *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Uint64_Box.java.

References build_cpp_object().

11.132.2.4 parma_polyhedra_library::Pointset_Powerset_Uint64_Box::Pointset_Powerset_Uint64_Box (Uint64_Box *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Uint64_Box.java.

References build_cpp_object().

11.132.2.5 parma_polyhedra_library::Pointset_Powerset_Uint64_Box::Pointset_Powerset_Uint64_Box (Pointset_Powerset_Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Uint64_Box.java.

References build_cpp_object().

11.132.2.6 parma_polyhedra_library::Pointset_Powerset_Uint64_Box::Pointset_Powerset_Uint64_Box (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Uint64_Box.java.

References build_cpp_object().

11.132.2.7 parma_polyhedra_library::Pointset_Powerset_Uint64_Box::Pointset_Powerset_Uint64_Box (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Uint64_Box.java.

References build_cpp_object().

11.132.2.8 parma_polyhedra_library::Pointset_Powerset_Uint64_Box::Pointset_Powerset_Uint64_Box (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Uint64_Box.java.

References build_cpp_object().

11.132.3 Member Function Documentation

11.132.3.1 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::add_congruence (Congruence *c*)

11.132.3.2 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::add_congruences (Congruence_System *c*)

11.132.3.3 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::add_constraint (Constraint *c*)

11.132.3.4 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::add_constraints (Constraint_System *c*)

11.132.3.5 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::add_disjunct (Uint64_Box *j_disj*)

11.132.3.6 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::add_space_dimensions_and_embed (long *m*)

11.132.3.7 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::add_space_dimensions_and_project (long *m*)

11.132.3.8 native long parma_polyhedra_library::Pointset_Powerset_Uint64_Box::affine_dimension ()

11.132.3.9 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.132.3.10 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.132.3.11 native String parma_polyhedra_library::Pointset_Powerset_Uint64_Box::ascii_dump ()

11.132.3.12 native Pointset_Powerset_Uint64_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Uint64_Box::begin_iterator ()

11.132.3.13 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.132.3.14 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.132.3.15 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::bounds_from_above (Linear_Expression *expr*)

11.132.3.16 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::bounds_from_below (Linear_Expression *expr*)

11.132.3.17 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.132.3.18 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::build_cpp_object (Uint64_Box *y*) [private]

11.132.3.19 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::build_cpp_object (Pointset_Powerset_Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.132.3.20 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::build_cpp_object (Pointset_Powerset_Uint64_Box *y*) [private]

11.132.3.21 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.132.3.22 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::build_cpp_object (Congruence_System *cs*) [private]

11.132.3.23 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Uint64_Box().

11.132.3.24 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::concatenate_assign (Pointset_Powerset_Uint64_Box *p*)

11.132.3.25 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::constrains (Variable *var*)

11.132.3.26 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::contains (Pointset_Powerset_Uint64_Box *y*)

11.132.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::contains_integer_point ()

11.132.3.28 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::difference_assign (Pointset_Powerset_Uint64_Box *p*)

11.132.3.29 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::drop_disjunct (Pointset_Powerset_Uint64_Box_Iterator *itr*)

11.132.3.30 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::drop_disjuncts (Pointset_Powerset_Uint64_Box_Iterator *itr1*, Pointset_Powerset_Uint64_Box_Iterator *itr2*)

11.132.3.31 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.132.3.32 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.132.3.33 native Pointset_Powerset_Uint64_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Uint64_Box::end_iterator ()

11.132.3.34 boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::equals (Object *y*) [inline]

Definition at line 190 of file Pointset_Powerset_Uint64_Box.java.

References equals().

11.132.3.35 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::equals (Pointset_Powerset_Uint64_Box *p*)

Referenced by equals().

11.132.3.36 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::expand_space_dimension (Variable *var*, long *m*)

11.132.3.37 native long parma_polyhedra_library::Pointset_Powerset_Uint64_Box::external_memory_in_bytes ()

11.132.3.38 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::finalize () [protected]

11.132.3.39 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.132.3.40 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::free ()

11.132.3.41 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.132.3.42 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.132.3.43 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.132.3.44 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.132.3.45 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::geometrically_covers (Pointset_Powerset_Uint64_Box *y*)

11.132.3.46 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::geometrically_equals (Pointset_Powerset_Uint64_Box *y*)

11.132.3.47 native int parma_polyhedra_library::Pointset_Powerset_Uint64_Box::hashCode ()

11.132.3.48 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::intersection_assign (Pointset_Powerset_Uint64_Box *p*)

11.132.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::is_bounded ()

11.132.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::is_discrete ()

11.132.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::is_disjoint_from (Pointset_Powerset_Uint64_Box *y*)

11.132.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::is_empty ()

11.132.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::is_topologically_closed ()

11.132.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::is_universe ()

11.132.3.55 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::map_space_dimensions (Partial_Function *pfunc*)

11.132.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.132.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.132.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.132.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.132.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::OK ()

11.132.3.61 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::omega_reduce ()

11.132.3.62 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::pairwise_reduce ()

11.132.3.63 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::refine_with_congruence (Congruence *c*)

11.132.3.64 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::refine_with_congruences (Congruence_System *c*)

11.132.3.65 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::refine_with_constraint (Constraint *c*)

11.132.3.66 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::refine_with_constraints (Constraint_System *c*)

11.132.3.67 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Uint64_Box::relation_with (Congruence *c*)

11.132.3.68 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_Uint64_Box::relation_with (Generator *c*)

11.132.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Uint64_Box::relation_with (Constraint *c*)

11.132.3.70 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::remove_higher_space_dimensions (long *new_dimension*)

11.132.3.71 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::remove_space_dimensions (Variables_Set *vars*)

11.132.3.72 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::simplify_using_context_assign (Pointset_Powerset_Uint64_Box *p*)

11.132.3.73 native long parma_polyhedra_library::Pointset_Powerset_Uint64_Box::size ()

11.132.3.74 native long parma_polyhedra_library::Pointset_Powerset_Uint64_Box::space_dimension ()

11.132.3.75 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::strictly_contains (Pointset_Powerset_Uint64_Box *y*)

11.132.3.76 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::swap (Pointset_Powerset_Uint64_Box *y*)

11.132.3.77 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::time_elapse_assign (Pointset_Powerset_Uint64_Box *p*)

11.132.3.78 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::topological_closure_assign ()

11.132.3.79 native String parma_polyhedra_library::Pointset_Powerset_Uint64_Box::toString ()

11.132.3.80 native long parma_polyhedra_library::Pointset_Powerset_Uint64_Box::total_memory_in_bytes ()

11.132.3.81 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::unconstrain_space_dimension (Variable *var*)

11.132.3.82 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.132.3.83 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box::upper_bound_assign (Pointset_Powerset_Uint64_Box *p*)

11.132.3.84 native boolean parma_polyhedra_library::Pointset_Powerset_Uint64_Box::upper_bound_assign_if_exact (Pointset_Powerset_Uint64_Box *y*)

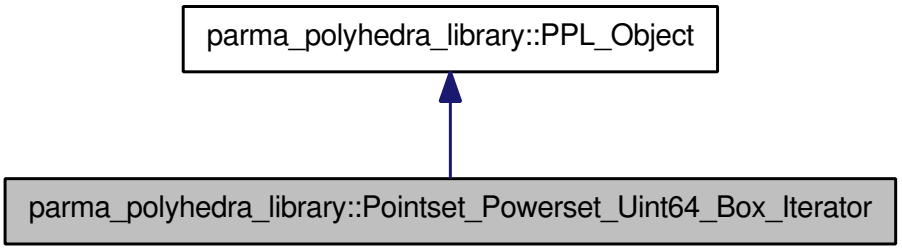
The documentation for this class was generated from the following file:

- Pointset_Powerset_Uint64_Box.java

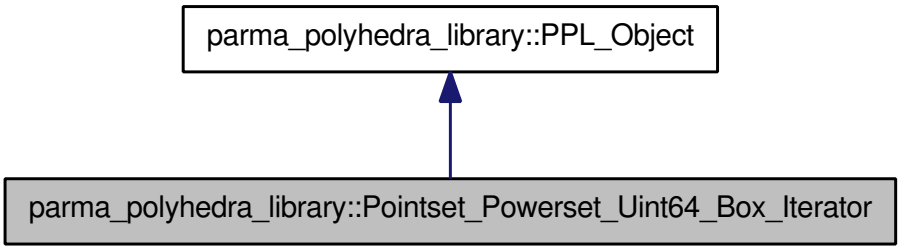
11.133 parma_polyhedra_library::Pointset_Powerset_Uint64_Box_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint64_Box>:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Uint64_Box_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Uint64_Box_Iterator:



Public Member Functions

- Pointset_Powerset_Uint64_Box_Iterator (Pointset_Powerset_Uint64_Box_Iterator y)
- native boolean equals (Pointset_Powerset_Uint64_Box_Iterator itr)
- native void next ()
- native void prev ()
- native Uint64_Box get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Uint64_Box_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Uint64_Box obj)
- native void build_cpp_object (Pointset_Powerset_Uint64_Box_Iterator y)

11.133.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint64_Box>:: iterator.

Definition at line 30 of file Pointset_Powerset_Uint64_Box_Iterator.java.

11.133.2 Constructor & Destructor Documentation

11.133.2.1 parma_polyhedra_library::Pointset_Powerset_Uint64_Box_-Iterator::Pointset_Powerset_Uint64_Box_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Uint64_Box_Iterator.java.

11.133.2.2 parma_polyhedra_library::Pointset_Powerset_Uint64_Box_Iterator::Pointset_-Powerset_Uint64_Box_Iterator (Pointset_Powerset_Uint64_Box_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Uint64_Box_Iterator.java.

References build_cpp_object().

11.133.3 Member Function Documentation

11.133.3.1 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box_-Iterator::build_cpp_object (Pointset_Powerset_Uint64_Box_Iterator *y*) [private]

Referenced by Pointset_Powerset_Uint64_Box_Iterator().

11.133.3.2 native void parma_polyhedra_library::Pointset_Powerset_Uint64_-Box_Iterator::build_ppl_object (Pointset_Powerset_Uint64_Box *obj*) [private]

11.133.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_-Uint64_Box_Iterator::equals (Pointset_Powerset_Uint64_Box_Iterator *itr*)

11.133.3.4 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box_-Iterator::finalize () [protected]

11.133.3.5 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box_Iterator::free ()

11.133.3.6 native Uint64_Box parma_polyhedra_library::Pointset_Powerset_Uint64_Box_-Iterator::get_disjunct ()

11.133.3.7 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box_Iterator::next ()

11.133.3.8 native void parma_polyhedra_library::Pointset_Powerset_Uint64_Box_Iterator::prev ()

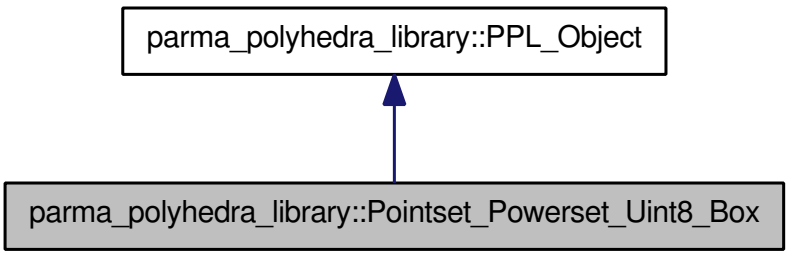
The documentation for this class was generated from the following file:

- Pointset_Powerset_Uint64_Box_Iterator.java

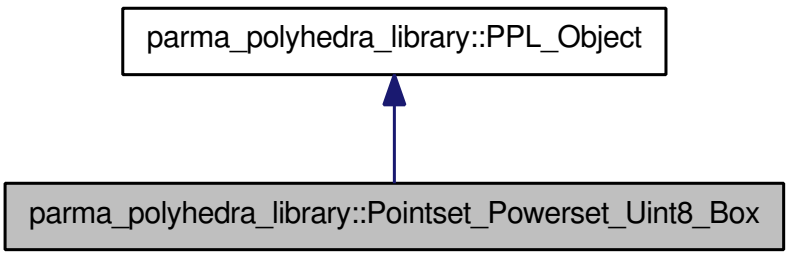
11.134 parma_polyhedra_library::Pointset_Powerset_Uint8_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint8_Box>

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Uint8_Box:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Uint8_Box:



Public Member Functions

- Pointset_Powerset_Uint8_Box (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Uint8_Box (Pointset_Powerset_Uint8_Box y)
- Pointset_Powerset_Uint8_Box (Uint8_Box y)
- Pointset_Powerset_Uint8_Box (Pointset_Powerset_Uint8_Box y, Complexity_Class complexity)
- Pointset_Powerset_Uint8_Box (Uint8_Box y, Complexity_Class complexity)
- Pointset_Powerset_Uint8_Box (Constraint_System cs)
- Pointset_Powerset_Uint8_Box (Congruence_System cs)
- native void swap (Pointset_Powerset_Uint8_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Uint8_Box y)
- native boolean strictly_contains (Pointset_Powerset_Uint8_Box y)
- native boolean is_disjoint_from (Pointset_Powerset_Uint8_Box y)
- native boolean geometrically_covers (Pointset_Powerset_Uint8_Box y)
- native boolean geometrically_equals (Pointset_Powerset_Uint8_Box y)
- native boolean equals (Pointset_Powerset_Uint8_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Uint8_Box p)

- native void upper_bound_assign (Pointset_Powerset_Uint8_Box p)
- native void difference_assign (Pointset_Powerset_Uint8_Box p)
- native void concatenate_assign (Pointset_Powerset_Uint8_Box p)
- native void time_elapse_assign (Pointset_Powerset_Uint8_Box p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Uint8_Box y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Uint8_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Uint8_Box_Iterator begin_iterator ()
- native Pointset_Powerset_Uint8_Box_Iterator end_iterator ()
- native void add_disjunct (Uint8_Box j_disj)
- native void drop_disjunct (Pointset_Powerset_Uint8_Box_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Uint8_Box_Iterator itr1, Pointset_Powerset_Uint8_Box_Iterator itr2)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Uint8_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Uint8_Box y)
- native void build_cpp_object (Pointset_Powerset_Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)

11.134.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint8_Box>

Definition at line 33 of file Pointset_Powerset_Uint8_Box.java.

11.134.2 Constructor & Destructor Documentation

11.134.2.1 parma_polyhedra_library::Pointset_Powerset_Uint8_Box::Pointset_Powerset_Uint8_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Uint8_Box.java.

References build_cpp_object().

11.134.2.2 parma_polyhedra_library::Pointset_Powerset_Uint8_Box::Pointset_Powerset_Uint8_Box () [inline, private]

Definition at line 45 of file Pointset_Powerset_Uint8_Box.java.

11.134.2.3 parma_polyhedra_library::Pointset_Powerset_Uint8_Box::Pointset_Powerset_Uint8_Box (Pointset_Powerset_Uint8_Box *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Uint8_Box.java.

References build_cpp_object().

11.134.2.4 parma_polyhedra_library::Pointset_Powerset_Uint8_Box::Pointset_Powerset_Uint8_Box (Uint8_Box *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Uint8_Box.java.

References build_cpp_object().

11.134.2.5 parma_polyhedra_library::Pointset_Powerset_Uint8_Box::Pointset_Powerset_Uint8_Box (Pointset_Powerset_Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Uint8_Box.java.

References build_cpp_object().

11.134.2.6 parma_polyhedra_library::Pointset_Powerset_Uint8_Box::Pointset_Powerset_Uint8_Box (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Uint8_Box.java.

References build_cpp_object().

11.134.2.7 parma_polyhedra_library::Pointset_Powerset_Uint8_Box::Pointset_Powerset_Uint8_Box (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Uint8_Box.java.

References build_cpp_object().

11.134.2.8 parma_polyhedra_library::Pointset_Powerset_Uint8_Box::Pointset_Powerset_Uint8_Box (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Uint8_Box.java.

References build_cpp_object().

11.134.3 Member Function Documentation

11.134.3.1 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::add_congruence (Congruence *c*)

11.134.3.2 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::add_congruences (Congruence_System *c*)

11.134.3.3 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::add_constraint (Constraint *c*)

11.134.3.4 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::add_constraints (Constraint_System *c*)

11.134.3.5 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::add_disjunct (Uint8_Box *j_disj*)

11.134.3.6 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::add_space_dimensions_and_embed (long *m*)

11.134.3.7 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::add_space_dimensions_and_project (long *m*)

11.134.3.8 native long parma_polyhedra_library::Pointset_Powerset_Uint8_Box::affine_dimension ()

11.134.3.9 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.134.3.10 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.134.3.11 native String parma_polyhedra_library::Pointset_Powerset_Uint8_Box::ascii_dump ()

11.134.3.12 native Pointset_Powerset_Uint8_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Uint8_Box::begin_iterator ()

11.134.3.13 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.134.3.14 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.134.3.15 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::bounds_from_above (Linear_Expression *expr*)

11.134.3.16 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::bounds_from_below (Linear_Expression *expr*)

11.134.3.17 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.134.3.18 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::build_cpp_object (Uint8_Box *y*) [private]

11.134.3.19 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::build_cpp_object (Pointset_Powerset_Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.134.3.20 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::build_cpp_object (Pointset_Powerset_Uint8_Box *y*) [private]

11.134.3.21 native void parma_polyhedra_library::Pointset_Powerset_Uint8_-Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.134.3.22 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::build_cpp_-object (Congruence_System *cs*) [private]

11.134.3.23 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::build_cpp_-object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Uint8_Box().

11.134.3.24 native void parma_polyhedra_library::Pointset_Powerset_-Uint8_Box::concatenate_assign (Pointset_Powerset_Uint8_Box *p*)

11.134.3.25 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::constrains (Variable *var*)

11.134.3.26 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::contains (Pointset_Powerset_Uint8_Box *y*)

11.134.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::contains_-integer_point ()

11.134.3.28 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::difference_-assign (Pointset_Powerset_Uint8_Box *p*)

11.134.3.29 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::drop_disjunct (Pointset_Powerset_Uint8_Box_Iterator *itr*)

11.134.3.30 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::drop_disjuncts (Pointset_Powerset_Uint8_Box_Iterator *itr1*, Pointset_Powerset_Uint8_Box_Iterator *itr2*)

11.134.3.31 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.134.3.32 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.134.3.33 native Pointset_Powerset_Uint8_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Uint8_Box::end_iterator ()

11.134.3.34 boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_Uint8_Box.java.

References equals().

11.134.3.35 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::equals (Pointset_Powerset_Uint8_Box *p*)

Referenced by equals().

11.134.3.36 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::expand_space_dimension (Variable *var*, long *m*)

11.134.3.37 native long parma_polyhedra_library::Pointset_Powerset_Uint8_Box::external_memory_in_bytes ()

11.134.3.38 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::finalize () [protected]

11.134.3.39 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.134.3.40 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::free ()

11.134.3.41 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.134.3.42 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.134.3.43 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.134.3.44 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.134.3.45 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::geometrically_covers (Pointset_Powerset_Uint8_Box *y*)

11.134.3.46 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::geometrically_equals (Pointset_Powerset_Uint8_Box *y*)

11.134.3.47 native int parma_polyhedra_library::Pointset_Powerset_Uint8_Box::hashCode ()

11.134.3.48 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::intersection_assign (Pointset_Powerset_Uint8_Box *p*)

11.134.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::is_bounded ()

11.134.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::is_discrete ()

11.134.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::is_disjoint_from (Pointset_Powerset_Uint8_Box *y*)

11.134.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::is_empty ()

11.134.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::is_topologically_closed ()

11.134.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::is_universe ()

11.134.3.55 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::map_space_-dimensions (Partial_Function *pfunc*)

11.134.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.134.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.134.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.134.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.134.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::OK ()

11.134.3.61 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::omega_reduce ()

11.134.3.62 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::pairwise_-reduce ()

11.134.3.63 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::refine_with_-congruence (Congruence *c*)

11.134.3.64 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::refine_with_congruences (Congruence_System *c*)

11.134.3.65 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::refine_with_constraint (Constraint *c*)

11.134.3.66 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::refine_with_constraints (Constraint_System *c*)

11.134.3.67 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Uint8_Box::relation_with (Congruence *c*)

11.134.3.68 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_Uint8_Box::relation_with (Generator *c*)

11.134.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Uint8_Box::relation_with (Constraint *c*)

11.134.3.70 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::remove_higher_space_dimensions (long *new_dimension*)

11.134.3.71 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::remove_space_dimensions (Variables_Set *vars*)

11.134.3.72 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::simplify_using_context_assign (Pointset_Powerset_Uint8_Box *p*)

11.134.3.73 native long parma_polyhedra_library::Pointset_Powerset_Uint8_Box::size ()

11.134.3.74 native long parma_polyhedra_library::Pointset_Powerset_Uint8_Box::space_dimension ()

11.134.3.75 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::strictly_contains (Pointset_Powerset_Uint8_Box *y*)

11.134.3.76 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::swap (Pointset_Powerset_Uint8_Box *y*)

11.134.3.77 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::time_elapse_assign (Pointset_Powerset_Uint8_Box *p*)

11.134.3.78 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::topological_closure_assign ()

11.134.3.79 native String parma_polyhedra_library::Pointset_Powerset_Uint8_Box::toString ()

11.134.3.80 native long parma_polyhedra_library::Pointset_Powerset_Uint8_Box::total_memory_in_bytes ()

11.134.3.81 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::unconstrain_space_dimension (Variable *var*)

11.134.3.82 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.134.3.83 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box::upper_bound_assign (Pointset_Powerset_Uint8_Box *p*)

11.134.3.84 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box::upper_bound_assign_if_exact (Pointset_Powerset_Uint8_Box *y*)

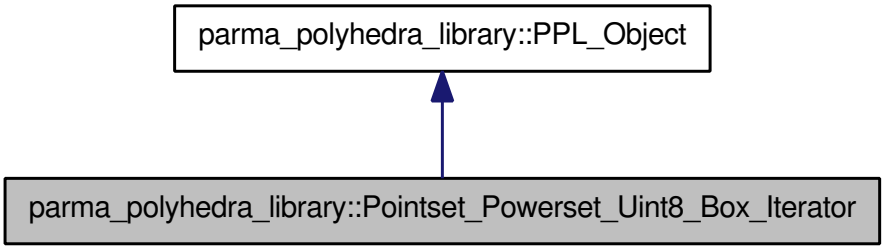
The documentation for this class was generated from the following file:

- Pointset_Powerset_Uint8_Box.java

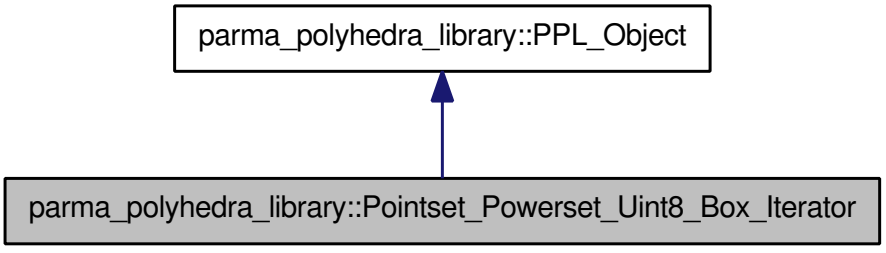
11.135 parma_polyhedra_library::Pointset_Powerset_Uint8_Box_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint8_Box>:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Uint8_Box_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Uint8_Box_Iterator:



Public Member Functions

- Pointset_Powerset_Uint8_Box_Iterator (Pointset_Powerset_Uint8_Box_Iterator y)
- native boolean equals (Pointset_Powerset_Uint8_Box_Iterator itr)
- native void next ()
- native void prev ()
- native Uint8_Box get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Uint8_Box_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Uint8_Box obj)
- native void build_cpp_object (Pointset_Powerset_Uint8_Box_Iterator y)

11.135.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint8_Box>:: iterator.

Definition at line 30 of file Pointset_Powerset_Uint8_Box_Iterator.java.

11.135.2 Constructor & Destructor Documentation

11.135.2.1 parma_polyhedra_library::Pointset_Powerset_Uint8_Box_Iterator::Pointset_Powerset_Uint8_Box_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Uint8_Box_Iterator.java.

11.135.2.2 parma_polyhedra_library::Pointset_Powerset_Uint8_Box_Iterator::Pointset_Powerset_Uint8_Box_Iterator (Pointset_Powerset_Uint8_Box_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Uint8_Box_Iterator.java.

References build_cpp_object().

11.135.3 Member Function Documentation

11.135.3.1 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box_Iterator::build_cpp_object (Pointset_Powerset_Uint8_Box_Iterator *y*) [private]

Referenced by Pointset_Powerset_Uint8_Box_Iterator().

11.135.3.2 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box_Iterator::build_ppl_object (Pointset_Powerset_Uint8_Box *obj*) [private]

11.135.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Uint8_Box_Iterator::equals (Pointset_Powerset_Uint8_Box_Iterator *itr*)

11.135.3.4 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box_Iterator::finalize () [protected]

11.135.3.5 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box_Iterator::free ()

11.135.3.6 native Uint8_Box parma_polyhedra_library::Pointset_Powerset_Uint8_Box_Iterator::get_disjunct ()

11.135.3.7 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box_Iterator::next ()

11.135.3.8 native void parma_polyhedra_library::Pointset_Powerset_Uint8_Box_Iterator::prev ()

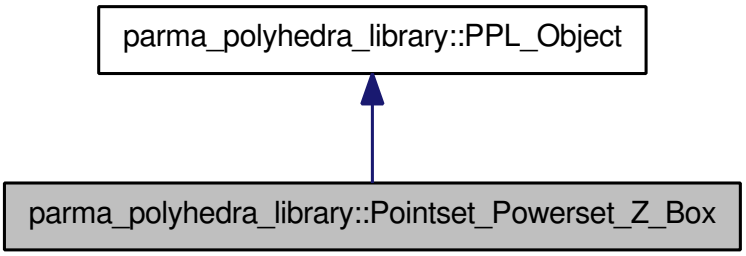
The documentation for this class was generated from the following file:

- Pointset_Powerset_Uint8_Box_Iterator.java

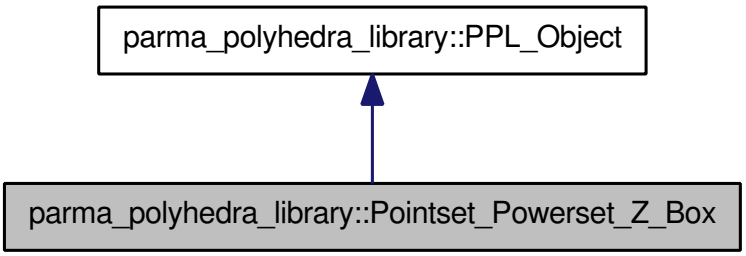
11.136 parma_polyhedra_library::Pointset_Powerset_Z_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Z_Box>

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Z_Box:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Z_Box:



Public Member Functions

- Pointset_Powerset_Z_Box (long num_dimensions, Degenerate_Element kind)
- Pointset_Powerset_Z_Box (Pointset_Powerset_Z_Box y)
- Pointset_Powerset_Z_Box (Z_Box y)
- Pointset_Powerset_Z_Box (Pointset_Powerset_Z_Box y, Complexity_Class complexity)
- Pointset_Powerset_Z_Box (Z_Box y, Complexity_Class complexity)
- Pointset_Powerset_Z_Box (Constraint_System cs)
- Pointset_Powerset_Z_Box (Congruence_System cs)
- native void swap (Pointset_Powerset_Z_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native void pairwise_reduce ()
- native void omega_reduce ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)

- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean contains (Pointset_Powerset_Z_Box y)
- native boolean strictly_contains (Pointset_Powerset_Z_Box y)
- native boolean is_disjoint_from (Pointset_Powerset_Z_Box y)
- native boolean geometrically_covers (Pointset_Powerset_Z_Box y)
- native boolean geometrically_equals (Pointset_Powerset_Z_Box y)
- native boolean equals (Pointset_Powerset_Z_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Pointset_Powerset_Z_Box p)
- native void upper_bound_assign (Pointset_Powerset_Z_Box p)
- native void difference_assign (Pointset_Powerset_Z_Box p)
- native void concatenate_assign (Pointset_Powerset_Z_Box p)
- native void time_elapse_assign (Pointset_Powerset_Z_Box p)
- native boolean upper_bound_assign_if_exact (Pointset_Powerset_Z_Box y)
- native boolean simplify_using_context_assign (Pointset_Powerset_Z_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)

- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native long size ()
- native Pointset_Powerset_Z_Box_Iterator begin_iterator ()
- native Pointset_Powerset_Z_Box_Iterator end_iterator ()
- native void add_disjunct (Z_Box j_disj)
- native void drop_disjunct (Pointset_Powerset_Z_Box_Iterator itr)
- native void drop_disjuncts (Pointset_Powerset_Z_Box_Iterator itr1, Pointset_Powerset_Z_Box_-Iterator itr2)
- native void free ()
- native int hashCode ()
- native String toString ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Z_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Pointset_Powerset_Z_Box y)
- native void build_cpp_object (Pointset_Powerset_Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)

11.136.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Z_Box>

Definition at line 33 of file Pointset_Powerset_Z_Box.java.

11.136.2 Constructor & Destructor Documentation

11.136.2.1 parma_polyhedra_library::Pointset_Powerset_Z_Box::Pointset_Powerset_Z_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Pointset_Powerset_Z_Box.java.

References build_cpp_object().

11.136.2.2 parma_polyhedra_library::Pointset_Powerset_Z_Box::Pointset_Powerset_Z_Box () [inline, private]

Definition at line 45 of file Pointset_Powerset_Z_Box.java.

11.136.2.3 parma_polyhedra_library::Pointset_Powerset_Z_Box::Pointset_Powerset_Z_Box (Pointset_Powerset_Z_Box *y*) [inline]

Definition at line 52 of file Pointset_Powerset_Z_Box.java.

References build_cpp_object().

11.136.2.4 parma_polyhedra_library::Pointset_Powerset_Z_Box::Pointset_Powerset_Z_Box (Z_Box *y*) [inline]

Definition at line 56 of file Pointset_Powerset_Z_Box.java.

References build_cpp_object().

11.136.2.5 parma_polyhedra_library::Pointset_Powerset_Z_Box::Pointset_Powerset_Z_Box (Pointset_Powerset_Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 65 of file Pointset_Powerset_Z_Box.java.

References build_cpp_object().

11.136.2.6 parma_polyhedra_library::Pointset_Powerset_Z_Box::Pointset_Powerset_Z_Box (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 69 of file Pointset_Powerset_Z_Box.java.

References build_cpp_object().

11.136.2.7 parma_polyhedra_library::Pointset_Powerset_Z_Box::Pointset_Powerset_Z_Box (Constraint_System *cs*) [inline]

Definition at line 78 of file Pointset_Powerset_Z_Box.java.

References build_cpp_object().

11.136.2.8 parma_polyhedra_library::Pointset_Powerset_Z_Box::Pointset_Powerset_Z_Box (Congruence_System *cs*) [inline]

Definition at line 82 of file Pointset_Powerset_Z_Box.java.

References build_cpp_object().

11.136.3 Member Function Documentation

11.136.3.1 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::add_congruence (Congruence *c*)

11.136.3.2 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::add_congruences (Congruence_System *c*)

11.136.3.3 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::add_constraint (Constraint *c*)

11.136.3.4 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::add_constraints (Constraint_System *c*)

11.136.3.5 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::add_disjunct (Z_Box *j_disj*)

11.136.3.6 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::add_space_dimensions_and_embed (long *m*)

11.136.3.7 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::add_space_dimensions_and_project (long *m*)

11.136.3.8 native long parma_polyhedra_library::Pointset_Powerset_Z_Box::affine_dimension ()

11.136.3.9 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.136.3.10 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.136.3.11 native String parma_polyhedra_library::Pointset_Powerset_Z_Box::ascii_dump ()

11.136.3.12 native Pointset_Powerset_Z_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Z_Box::begin_iterator ()

11.136.3.13 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.136.3.14 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.136.3.15 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::bounds_from_above (Linear_Expression *expr*)

11.136.3.16 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::bounds_from_below (Linear_Expression *expr*)

11.136.3.17 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) `[private]`

11.136.3.18 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::build_cpp_object (Z_Box *y*) [private]

11.136.3.19 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::build_cpp_object (Pointset_Powerset_Z_Box *y*, Complexity_Class *complexity*) [private]

11.136.3.20 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::build_cpp_object (Pointset_Powerset_Z_Box *y*) [private]

11.136.3.21 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.136.3.22 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::build_cpp_object (Congruence_System *cs*) [private]

11.136.3.23 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Pointset_Powerset_Z_Box().

11.136.3.24 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::concatenate_assign (Pointset_Powerset_Z_Box *p*)

11.136.3.25 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::constrains (Variable *var*)

11.136.3.26 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::contains (Pointset_Powerset_Z_Box *y*)

11.136.3.27 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::contains_integer_point ()

11.136.3.28 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::difference_assign (Pointset_Powerset_Z_Box *p*)

11.136.3.29 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::drop_disjunct (Pointset_Powerset_Z_Box_Iterator *itr*)

11.136.3.30 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::drop_disjuncts (Pointset_Powerset_Z_Box_Iterator *itr1*, Pointset_Powerset_Z_Box_Iterator *itr2*)

11.136.3.31 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.136.3.32 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.136.3.33 native Pointset_Powerset_Z_Box_Iterator parma_polyhedra_library::Pointset_Powerset_Z_Box::end_iterator ()

11.136.3.34 boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::equals (Object *y*) `[inline]`

Definition at line 190 of file Pointset_Powerset_Z_Box.java.

References equals().

11.136.3.35 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::equals (Pointset_Powerset_Z_Box *p*)

Referenced by equals().

11.136.3.36 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::expand_space_dimension (Variable *var*, long *m*)

11.136.3.37 native long parma_polyhedra_library::Pointset_Powerset_Z_Box::external_memory_in_bytes ()

11.136.3.38 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::finalize () `[protected]`

11.136.3.39 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.136.3.40 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::free ()

11.136.3.41 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.136.3.42 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.136.3.43 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.136.3.44 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.136.3.45 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::geometrically_covers (Pointset_Powerset_Z_Box *y*)

11.136.3.46 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::geometrically_equals (Pointset_Powerset_Z_Box *y*)

11.136.3.47 native int parma_polyhedra_library::Pointset_Powerset_Z_Box::hashCode ()

11.136.3.48 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::intersection_assign (Pointset_Powerset_Z_Box *p*)

11.136.3.49 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::is_bounded ()

11.136.3.50 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::is_discrete ()

11.136.3.51 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::is_disjoint_from (Pointset_Powerset_Z_Box *y*)

11.136.3.52 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::is_empty ()

11.136.3.53 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::is_topologically_closed ()

11.136.3.54 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::is_universe ()

11.136.3.55 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::map_space_dimensions (Partial_Function *pfunc*)

11.136.3.56 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.136.3.57 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.136.3.58 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.136.3.59 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.136.3.60 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::OK ()

11.136.3.61 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::omega_reduce ()

11.136.3.62 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::pairwise_reduce ()

11.136.3.63 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::refine_with_congruence (Congruence *c*)

11.136.3.64 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::refine_with_congruences (Congruence_System *c*)

11.136.3.65 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::refine_with_constraint (Constraint *c*)

11.136.3.66 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::refine_with_constraints (Constraint_System *c*)

11.136.3.67 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Z_Box::relation_with (Congruence *c*)

11.136.3.68 native Poly_Gen_Relation parma_polyhedra_library::Pointset_Powerset_Z_Box::relation_with (Generator *c*)

11.136.3.69 native Poly_Con_Relation parma_polyhedra_library::Pointset_Powerset_Z_Box::relation_with (Constraint *c*)

11.136.3.70 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::remove_higher_space_dimensions (long *new_dimension*)

11.136.3.71 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::remove_space_dimensions (Variables_Set *vars*)

11.136.3.72 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::simplify_using_context_assign (Pointset_Powerset_Z_Box *p*)

11.136.3.73 native long parma_polyhedra_library::Pointset_Powerset_Z_Box::size ()

11.136.3.74 native long parma_polyhedra_library::Pointset_Powerset_Z_Box::space_dimension ()

11.136.3.75 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::strictly_contains (Pointset_Powerset_Z_Box *y*)

11.136.3.76 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::swap (Pointset_Powerset_Z_Box *y*)

11.136.3.77 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::time_elapse_assign (Pointset_Powerset_Z_Box *p*)

11.136.3.78 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::topological_closure_assign ()

11.136.3.79 native String parma_polyhedra_library::Pointset_Powerset_Z_Box::toString ()

11.136.3.80 native long parma_polyhedra_library::Pointset_Powerset_Z_Box::total_memory_in_bytes ()

11.136.3.81 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::unconstrain_space_dimension (Variable *var*)

11.136.3.82 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.136.3.83 native void parma_polyhedra_library::Pointset_Powerset_Z_Box::upper_bound_assign (Pointset_Powerset_Z_Box *p*)

11.136.3.84 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box::upper_bound_assign_if_exact (Pointset_Powerset_Z_Box *y*)

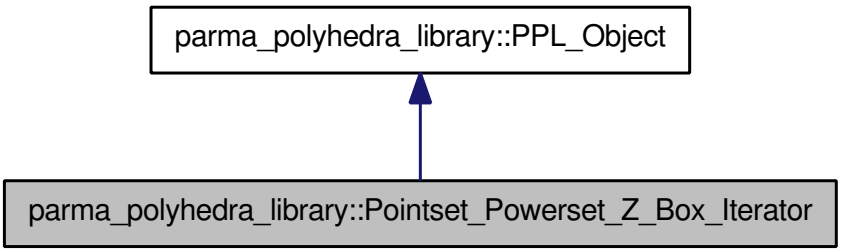
The documentation for this class was generated from the following file:

- Pointset_Powerset_Z_Box.java

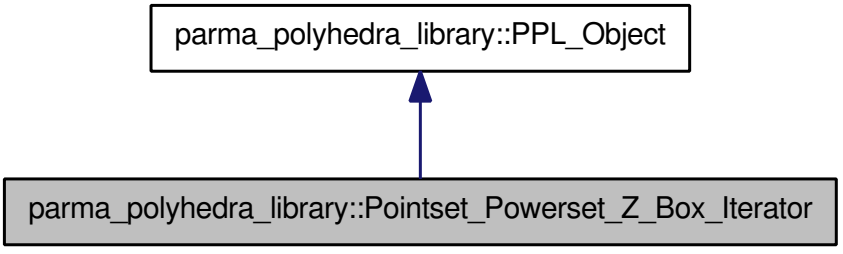
11.137 parma_polyhedra_library::Pointset_Powerset_Z_Box_Iterator Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Z_Box>:: iterator.

Inheritance diagram for parma_polyhedra_library::Pointset_Powerset_Z_Box_Iterator:



Collaboration diagram for parma_polyhedra_library::Pointset_Powerset_Z_Box_Iterator:



Public Member Functions

- Pointset_Powerset_Z_Box_Iterator (Pointset_Powerset_Z_Box_Iterator y)
- native boolean equals (Pointset_Powerset_Z_Box_Iterator itr)
- native void next ()
- native void prev ()
- native Z_Box get_disjunct ()
- native void free ()

Protected Member Functions

- native void finalize ()

Private Member Functions

- Pointset_Powerset_Z_Box_Iterator ()
- native void build_ppl_object (Pointset_Powerset_Z_Box obj)
- native void build_cpp_object (Pointset_Powerset_Z_Box_Iterator y)

11.137.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Z_Box>:: iterator.

Definition at line 30 of file Pointset_Powerset_Z_Box_Iterator.java.

11.137.2 Constructor & Destructor Documentation

11.137.2.1 parma_polyhedra_library::Pointset_Powerset_Z_Box_Iterator::Pointset_Powerset_Z_Box_Iterator () [inline, private]

Definition at line 32 of file Pointset_Powerset_Z_Box_Iterator.java.

11.137.2.2 parma_polyhedra_library::Pointset_Powerset_Z_Box_Iterator::Pointset_Powerset_Z_Box_Iterator (Pointset_Powerset_Z_Box_Iterator *y*) [inline]

Definition at line 36 of file Pointset_Powerset_Z_Box_Iterator.java.

References build_cpp_object().

11.137.3 Member Function Documentation

11.137.3.1 native void parma_polyhedra_library::Pointset_Powerset_Z_Box_Iterator::build_cpp_object (Pointset_Powerset_Z_Box_Iterator *y*) [private]

Referenced by Pointset_Powerset_Z_Box_Iterator().

11.137.3.2 native void parma_polyhedra_library::Pointset_Powerset_Z_-Box_Iterator::build_ppl_object (Pointset_Powerset_Z_Box *obj*) [private]

11.137.3.3 native boolean parma_polyhedra_library::Pointset_Powerset_Z_Box_Iterator::equals (Pointset_Powerset_Z_Box_Iterator *itr*)

11.137.3.4 native void parma_polyhedra_library::Pointset_Powerset_Z_Box_Iterator::finalize () [protected]

11.137.3.5 native void parma_polyhedra_library::Pointset_Powerset_Z_Box_Iterator::free ()

11.137.3.6 native Z_Box parma_polyhedra_library::Pointset_Powerset_Z_Box_Iterator::get_-disjunct ()

11.137.3.7 native void parma_polyhedra_library::Pointset_Powerset_Z_Box_Iterator::next ()

11.137.3.8 native void parma_polyhedra_library::Pointset_Powerset_Z_Box_Iterator::prev ()

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

- Pointset_Powerset_Z_Box_Iterator.java

11.138 parma_polyhedra_library::Poly_Con_Relation Class Reference

The relation between a polyhedron and a constraint.

Public Member Functions

- Poly_Con_Relation (int val)
  Constructs from a integer value.
- boolean implies (Poly_Con_Relation y)
  True if and only if `*this` *implies* `y`.

Static Public Member Functions

- static Poly_Con_Relation nothing ()

  The assertion that says nothing.

- static Poly_Con_Relation is_disjoint ()

  The polyhedron and the set of points satisfying the constraint are disjoint.

- static Poly_Con_Relation strictly_intersects ()

  The polyhedron intersects the set of points satisfying the constraint, but it is not included in it.

- static Poly_Con_Relation is_included ()

  The polyhedron is included in the set of points satisfying the constraint.

- static Poly_Con_Relation saturates ()

  The polyhedron is included in the set of points saturating the constraint.

Static Public Attributes

- static final int NOTHING = 0
- static final int IS_DISJOINT = 1
- static final int STRICTLY_INTERSECTS = 2
- static final int IS_INCLUDED = 4
- static final int SATURATES = 8

Static Package Functions

- [static initializer]

Static Private Member Functions

- static native void initIDs ()

Private Attributes

- int mask_value

  Holds the value of the possible relations.

11.138.1 Detailed Description

The relation between a polyhedron and a constraint. This class implements conjunctions of assertions on the relation between a polyhedron and a constraint.

Definition at line 31 of file Poly_Con_Relation.java.

11.138.2 Constructor & Destructor Documentation

11.138.2.1 parma_polyhedra_library::Poly_Con_Relation::Poly_Con_Relation (int *val*) [inline]

Constructs from a integer value.

Definition at line 43 of file Poly_Con_Relation.java.

References mask_value.

Referenced by is_disjoint(), is_included(), nothing(), saturates(), and strictly_intersects().

11.138.3 Member Function Documentation

11.138.3.1 parma_polyhedra_library::Poly_Con_Relation::[static initializer] () [inline, static, package]

11.138.3.2 boolean parma_polyhedra_library::Poly_Con_Relation::implies (Poly_Con_Relation *y*) [inline]

True if and only if `*this` implies `y`.

Definition at line 85 of file Poly_Con_Relation.java.

References mask_value.

11.138.3.3 static native void parma_polyhedra_library::Poly_Con_Relation::initIDs () [static, private]

11.138.3.4 static Poly_Con_Relation parma_polyhedra_library::Poly_Con_Relation::is_disjoint () [inline, static]

The polyhedron and the set of points satisfying the constraint are disjoint.

Definition at line 56 of file Poly_Con_Relation.java.

References Poly_Con_Relation().

11.138.3.5 static Poly_Con_Relation parma_polyhedra_library::Poly_Con_Relation::is_included () [inline, static]

The polyhedron is included in the set of points satisfying the constraint.

Definition at line 72 of file Poly_Con_Relation.java.

References Poly_Con_Relation().

11.138.3.6 static Poly_Con_Relation parma_polyhedra_library::Poly_Con_Relation::nothing () [inline, static]

The assertion that says nothing.

Definition at line 48 of file Poly_Con_Relation.java.

References Poly_Con_Relation().

11.138.3.7 static Poly_Con_Relation parma_polyhedra_library::Poly_Con_Relation::saturates () [inline, static]

The polyhedron is included in the set of points saturating the constraint.

Definition at line 80 of file Poly_Con_Relation.java.

References Poly_Con_Relation().

11.138.3.8 static Poly_Con_Relation parma_polyhedra_library::Poly_Con_Relation::strictly_intersects () [inline, static]

The polyhedron intersects the set of points satisfying the constraint, but it is not included in it.

Definition at line 64 of file Poly_Con_Relation.java.

References Poly_Con_Relation().

11.138.4 Member Data Documentation

11.138.4.1 final int parma_polyhedra_library::Poly_Con_Relation::IS_DISJOINT = 1 [static]

Definition at line 34 of file Poly_Con_Relation.java.

11.138.4.2 final int parma_polyhedra_library::Poly_Con_Relation::IS_INCLUDED = 4 [static]

Definition at line 36 of file Poly_Con_Relation.java.

11.138.4.3 int parma_polyhedra_library::Poly_Con_Relation::mask_value [private]

Holds the value of the possible relations.

Definition at line 40 of file Poly_Con_Relation.java.

Referenced by implies(), and Poly_Con_Relation().

11.138.4.4 final int parma_polyhedra_library::Poly_Con_Relation::NOTHING = 0 [static]

Definition at line 33 of file Poly_Con_Relation.java.

11.138.4.5 final int parma_polyhedra_library::Poly_Con_Relation::SATURATES = 8 [static]

Definition at line 37 of file Poly_Con_Relation.java.

11.138.4.6 final int parma_polyhedra_library::Poly_Con_Relation::STRICTLY_INTERSECTS = 2 [static]

Definition at line 35 of file Poly_Con_Relation.java.

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

- Poly_Con_Relation.java

11.139 parma_polyhedra_library::Poly_Gen_Relation Class Reference

The relation between a polyhedron and a generator.

Public Member Functions

- Poly_Gen_Relation (int val)

  Constructs from a integer value.

- boolean implies (Poly_Gen_Relation y)

  True if and only if `*this` *implies* `y`.

Static Public Member Functions

- static Poly_Gen_Relation nothing ()

  The assertion that says nothing.

- static Poly_Gen_Relation subsumes ()

  Adding the generator would not change the polyhedron.

Static Public Attributes

- static final int NOTHING = 0
- static final int SUBSUMES = 1

Static Package Functions

- [static initializer]

Static Private Member Functions

- static native void initIDs ()

Private Attributes

- int mask_value

  Holds the value of the possible relations.

11.139.1 Detailed Description

The relation between a polyhedron and a generator. This class implements conjunctions of assertions on the relation between a polyhedron and a generator.

Definition at line 31 of file Poly_Gen_Relation.java.

11.139.2 Constructor & Destructor Documentation

11.139.2.1 parma_polyhedra_library::Poly_Gen_Relation::Poly_Gen_Relation (int *val*) [inline]

Constructs from a integer value.

Definition at line 40 of file Poly_Gen_Relation.java.

References mask_value.

Referenced by nothing(), and subsumes().

11.139.3 Member Function Documentation

11.139.3.1 parma_polyhedra_library::Poly_Gen_Relation::[static initializer] () [inline, static, package]

11.139.3.2 boolean parma_polyhedra_library::Poly_Gen_Relation::implies (Poly_Gen_Relation *y*) [inline]

True if and only if `*this` implies `y`.

Definition at line 55 of file Poly_Gen_Relation.java.

References mask_value.

11.139.3.3 static native void parma_polyhedra_library::Poly_Gen_Relation::initIDs () [static, private]

11.139.3.4 static Poly_Gen_Relation parma_polyhedra_library::Poly_Gen_Relation::nothing () [inline, static]

The assertion that says nothing.

Definition at line 45 of file Poly_Gen_Relation.java.

References Poly_Gen_Relation().

11.139.3.5 static Poly_Gen_Relation parma_polyhedra_library::Poly_Gen_Relation::subsumes () [inline, static]

Adding the generator would not change the polyhedron.

Definition at line 50 of file Poly_Gen_Relation.java.

References Poly_Gen_Relation().

11.139.4 Member Data Documentation

11.139.4.1 int parma_polyhedra_library::Poly_Gen_Relation::mask_value [private]

Holds the value of the possible relations.

Definition at line 37 of file Poly_Gen_Relation.java.

Referenced by implies(), and Poly_Gen_Relation().

11.139.4.2 final int parma_polyhedra_library::Poly_Gen_Relation::NOTHING = 0 [static]

Definition at line 33 of file Poly_Gen_Relation.java.

11.139.4.3 final int parma_polyhedra_library::Poly_Gen_Relation::SUBSUMES = 1 [static]

Definition at line 34 of file Poly_Gen_Relation.java.

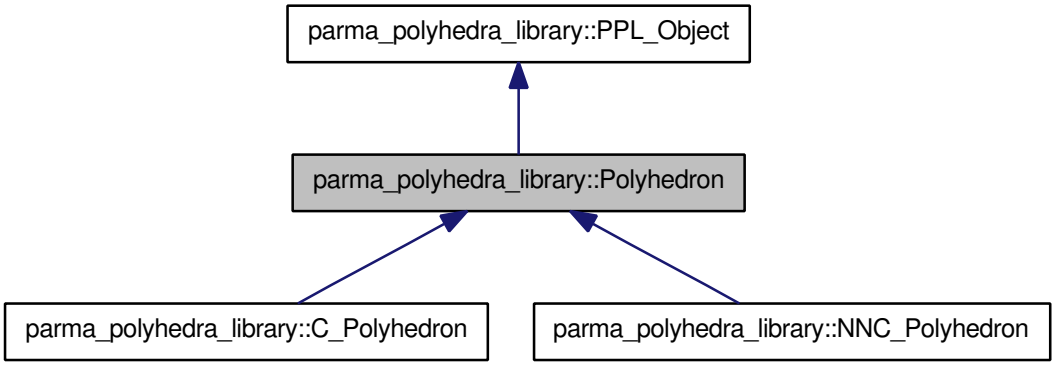
The documentation for this class was generated from the following file:

- Poly_Gen_Relation.java

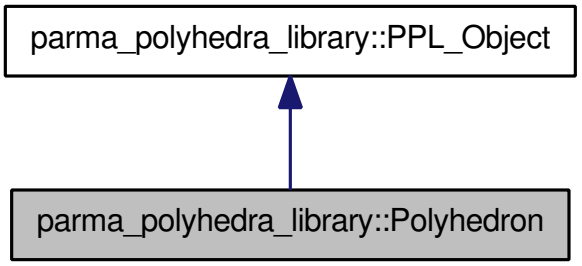
11.140 parma_polyhedra_library::Polyhedron Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Polyhedron.

Inheritance diagram for parma_polyhedra_library::Polyhedron:



Collaboration diagram for parma_polyhedra_library::Polyhedron:



Public Member Functions

- native void swap (Polyhedron y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()

- native Generator_System generators ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native Generator_System minimized_generators ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Polyhedron y)
- native boolean strictly_contains (Polyhedron y)
- native boolean is_disjoint_from (Polyhedron y)
- native boolean equals (Polyhedron p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_generator (Generator c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void add_generators (Generator_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Polyhedron p)
- native void upper_bound_assign (Polyhedron p)
- native void difference_assign (Polyhedron p)
- native void concatenate_assign (Polyhedron p)
- native void time_elapse_assign (Polyhedron p)
- native void poly_hull_assign (Polyhedron p)
- native void poly_difference_assign (Polyhedron p)
- native boolean simplify_using_context_assign (Polyhedron p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)

- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void BHRZ03_widening_assign (Polyhedron y, By_Reference< Integer > tp)
- native void H79_widening_assign (Polyhedron y, By_Reference< Integer > tp)
- native void widening_assign (Polyhedron y, By_Reference< Integer > tp)
- native void limited_BHRZ03_extrapolation_assign (Polyhedron y, Constraint_System cs, By_Reference< Integer > tp)
- native void bounded_BHRZ03_extrapolation_assign (Polyhedron y, Constraint_System cs, By_Reference< Integer > tp)
- native void limited_H79_extrapolation_assign (Polyhedron y, Constraint_System cs, By_Reference< Integer > tp)
- native void bounded_H79_extrapolation_assign (Polyhedron y, Constraint_System cs, By_Reference< Integer > tp)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native int hashCode ()
- native String toString ()

11.140.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Polyhedron.

Definition at line 33 of file Polyhedron.java.

11.140.2 Member Function Documentation

11.140.2.1 native void parma_polyhedra_library::Polyhedron::add_congruence (Congruence *c*)

11.140.2.2 native void parma_polyhedra_library::Polyhedron::add_congruences (Congruence_System *c*)

11.140.2.3 native void parma_polyhedra_library::Polyhedron::add_constraint (Constraint *c*)

11.140.2.4 native void parma_polyhedra_library::Polyhedron::add_constraints (Constraint_System *c*)

11.140.2.5 native void parma_polyhedra_library::Polyhedron::add_generator (Generator *c*)

11.140.2.6 native void parma_polyhedra_library::Polyhedron::add_generators (Generator_System *c*)

11.140.2.7 native void parma_polyhedra_library::Polyhedron::add_space_dimensions_and_embed (long *m*)

11.140.2.8 native void parma_polyhedra_library::Polyhedron::add_space_dimensions_and_project (long *m*)

11.140.2.9 native long parma_polyhedra_library::Polyhedron::affine_dimension ()

11.140.2.10 native void parma_polyhedra_library::Polyhedron::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.140.2.11 native void parma_polyhedra_library::Polyhedron::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.140.2.12 native String parma_polyhedra_library::Polyhedron::ascii_dump ()

11.140.2.13 native void parma_polyhedra_library::Polyhedron::BHRZ03_widening_assign (Polyhedron *y*, By_Reference< Integer > *tp*)

11.140.2.14 native void parma_polyhedra_library::Polyhedron::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.140.2.15 native void parma_polyhedra_library::Polyhedron::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.140.2.16 native void parma_polyhedra_library::Polyhedron::bounded_BHRZ03_-extrapolation_assign (Polyhedron *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.140.2.17 native void parma_polyhedra_library::Polyhedron::bounded_H79_extrapolation_-assign (Polyhedron *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.140.2.18 native boolean parma_polyhedra_library::Polyhedron::bounds_from_above (Linear_Expression *expr*)

11.140.2.19 native boolean parma_polyhedra_library::Polyhedron::bounds_from_below (Linear_Expression *expr*)

11.140.2.20 native void parma_polyhedra_library::Polyhedron::concatenate_assign (Polyhedron *p*)

11.140.2.21 native Congruence_System parma_polyhedra_library::Polyhedron::congruences ()

11.140.2.22 native boolean parma_polyhedra_library::Polyhedron::constrains (Variable *var*)

11.140.2.23 native Constraint_System parma_polyhedra_library::Polyhedron::constraints ()

11.140.2.24 native boolean parma_polyhedra_library::Polyhedron::contains (Polyhedron *y*)

11.140.2.25 native boolean parma_polyhedra_library::Polyhedron::contains_integer_point ()

11.140.2.26 native void parma_polyhedra_library::Polyhedron::difference_assign (Polyhedron *p*)

11.140.2.27 native void parma_polyhedra_library::Polyhedron::drop_some_non_integer_points (Integer *complexity_threshold*)

11.140.2.28 native void parma_polyhedra_library::Polyhedron::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.140.2.29 boolean parma_polyhedra_library::Polyhedron::equals (Object *y*) `[inline]`

Definition at line 152 of file Polyhedron.java.

References equals().

11.140.2.30 native boolean parma_polyhedra_library::Polyhedron::equals (Polyhedron *p*)

Referenced by equals().

11.140.2.31 native void parma_polyhedra_library::Polyhedron::expand_space_dimension (Variable *var*, long *m*)

11.140.2.32 native long parma_polyhedra_library::Polyhedron::external_memory_in_bytes ()

11.140.2.33 native void parma_polyhedra_library::Polyhedron::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.140.2.34 native boolean parma_polyhedra_library::Polyhedron::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.140.2.35 native void parma_polyhedra_library::Polyhedron::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.140.2.36 native void parma_polyhedra_library::Polyhedron::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.140.2.37 native void parma_polyhedra_library::Polyhedron::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.140.2.38 native void parma_polyhedra_library::Polyhedron::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.140.2.39 native Generator_System parma_polyhedra_library::Polyhedron::generators ()

11.140.2.40 native void parma_polyhedra_library::Polyhedron::H79_widening_assign (Polyhedron *y*, By_Reference< Integer > *tp*)

11.140.2.41 native int parma_polyhedra_library::Polyhedron::hashCode ()

11.140.2.42 native void parma_polyhedra_library::Polyhedron::intersection_assign (Polyhedron *p*)

11.140.2.43 native boolean parma_polyhedra_library::Polyhedron::is_bounded ()

11.140.2.44 native boolean parma_polyhedra_library::Polyhedron::is_discrete ()

11.140.2.45 native boolean parma_polyhedra_library::Polyhedron::is_disjoint_from (Polyhedron *y*)

11.140.2.46 native boolean parma_polyhedra_library::Polyhedron::is_empty ()

11.140.2.47 native boolean parma_polyhedra_library::Polyhedron::is_topologically_closed ()

11.140.2.48 native boolean parma_polyhedra_library::Polyhedron::is_universe ()

11.140.2.49 native void parma_polyhedra_library::Polyhedron::limited_BHRZ03_extrapolation_assign (Polyhedron *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.140.2.50 native void parma_polyhedra_library::Polyhedron::limited_H79_extrapolation_assign (Polyhedron *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.140.2.51 native void parma_polyhedra_library::Polyhedron::map_space_dimensions (Partial_Function *pfunc*)

11.140.2.52 native boolean parma_polyhedra_library::Polyhedron::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.140.2.53 native boolean parma_polyhedra_library::Polyhedron::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.140.2.54 native boolean parma_polyhedra_library::Polyhedron::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.140.2.55 native boolean parma_polyhedra_library::Polyhedron::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.140.2.56 native Congruence_System parma_polyhedra_library::Polyhedron::minimized_congruences ()

11.140.2.57 native Constraint_System parma_polyhedra_library::Polyhedron::minimized_constraints ()

11.140.2.58 native Generator_System parma_polyhedra_library::Polyhedron::minimized_generators ()

11.140.2.59 native boolean parma_polyhedra_library::Polyhedron::OK ()

11.140.2.60 native void parma_polyhedra_library::Polyhedron::poly_difference_assign (Polyhedron *p*)

11.140.2.61 native void parma_polyhedra_library::Polyhedron::poly_hull_assign (Polyhedron *p*)

11.140.2.62 native void parma_polyhedra_library::Polyhedron::refine_with_congruence (Congruence *c*)

11.140.2.63 native void parma_polyhedra_library::Polyhedron::refine_with_congruences (Congruence_System *c*)

11.140.2.64 native void parma_polyhedra_library::Polyhedron::refine_with_constraint (Constraint *c*)

11.140.2.65 native void parma_polyhedra_library::Polyhedron::refine_with_constraints (Constraint_System *c*)

11.140.2.66 native Poly_Con_Relation parma_polyhedra_library::Polyhedron::relation_with (Congruence *c*)

11.140.2.67 native Poly_Gen_Relation parma_polyhedra_library::Polyhedron::relation_with (Generator *c*)

11.140.2.68 native Poly_Con_Relation parma_polyhedra_library::Polyhedron::relation_with (Constraint *c*)

11.140.2.69 native void parma_polyhedra_library::Polyhedron::remove_higher_space_-dimensions (long *new_dimension*)

11.140.2.70 native void parma_polyhedra_library::Polyhedron::remove_space_dimensions (Variables_Set *vars*)

11.140.2.71 native boolean parma_polyhedra_library::Polyhedron::simplify_using_context_assign (Polyhedron *p*)

11.140.2.72 native long parma_polyhedra_library::Polyhedron::space_dimension ()

11.140.2.73 native boolean parma_polyhedra_library::Polyhedron::strictly_contains (Polyhedron *y*)

11.140.2.74 native void parma_polyhedra_library::Polyhedron::swap (Polyhedron *y*)

11.140.2.75 native void parma_polyhedra_library::Polyhedron::time_elapse_assign (Polyhedron *p*)

11.140.2.76 native void parma_polyhedra_library::Polyhedron::topological_closure_assign ()

11.140.2.77 native String parma_polyhedra_library::Polyhedron::toString ()

11.140.2.78 native long parma_polyhedra_library::Polyhedron::total_memory_in_bytes ()

11.140.2.79 native void parma_polyhedra_library::Polyhedron::unconstrain_space_dimension (Variable *var*)

11.140.2.80 native void parma_polyhedra_library::Polyhedron::unconstrain_space_dimensions (Variables_Set *vars*)

11.140.2.81 native void parma_polyhedra_library::Polyhedron::upper_bound_assign (Polyhedron *p*)

11.140.2.82 native void parma_polyhedra_library::Polyhedron::widening_assign (Polyhedron *y*, By_Reference< Integer > *tp*)

11.140.2.83 native void parma_polyhedra_library::Polyhedron::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

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

- Polyhedron.java

11.141 parma_polyhedra_library::PPL_Object Class Reference

Smart pointer to a PPL, C++ object.

Inherited by parma_polyhedra_library::BD_Shape_double, parma_polyhedra_library::BD_Shape_float, parma_polyhedra_library::BD_Shape_int16_t, parma_polyhedra_library::BD_Shape_int32_t, parma_polyhedra_library::BD_Shape_int64_t, parma_polyhedra_library::BD_Shape_int8_t, parma_polyhedra_library::BD_Shape_long_double, parma_polyhedra_library::BD_Shape_mpq_class, parma_polyhedra_library::BD_Shape_mpz_class, parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid, parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron, parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron, parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid, parma_polyhedra_library::Double_Box, parma_polyhedra_library::Float_Box, parma_polyhedra_library::Grid, parma_polyhedra_library::Int16_Box, parma_polyhedra_library::Int32_Box, parma_polyhedra_library::Int64_Box, parma_polyhedra_library::Int8_Box,

parma_polyhedra_library::Long_Double_Box, parma_polyhedra_library::MIP_Problem, parma_polyhedra_library::Octagonal_Shape_double, parma_polyhedra_library::Octagonal_Shape_float, parma_polyhedra_library::Octagonal_Shape_int16_t, parma_polyhedra_library::Octagonal_Shape_int32_t, parma_polyhedra_library::Octagonal_Shape_int64_t, parma_polyhedra_library::Octagonal_Shape_int8_t, parma_polyhedra_library::Octagonal_Shape_long_double, parma_polyhedra_library::Octagonal_Shape_mpq_class, parma_polyhedra_library::Octagonal_Shape_mpz_class, parma_polyhedra_library::Partial_Function, parma_polyhedra_library::PIP_Problem, parma_polyhedra_library::PIP_Tree_Node, parma_polyhedra_library::Pointset_Powerset_BD_Shape_double, parma_polyhedra_library::Pointset_Powerset_BD_Shape_double_Iterator, parma_polyhedra_library::Pointset_Powerset_BD_Shape_float, parma_polyhedra_library::Pointset_Powerset_BD_Shape_float_Iterator, parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t, parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t_Iterator, parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t, parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t_Iterator, parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t, parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t_Iterator, parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t, parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t_Iterator, parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double, parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double_Iterator, parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class, parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class_Iterator, parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class, parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class_Iterator, parma_polyhedra_library::Pointset_Powerset_C_Polyhedron, parma_polyhedra_library::Pointset_Powerset_C_Polyhedron_Iterator, parma_polyhedra_library::Pointset_Powerset_Double_Box, parma_polyhedra_library::Pointset_Powerset_Double_Box_Iterator, parma_polyhedra_library::Pointset_Powerset_Float_Box, parma_polyhedra_library::Pointset_Powerset_Float_Box_Iterator, parma_polyhedra_library::Pointset_Powerset_Grid, parma_polyhedra_library::Pointset_Powerset_Grid_Iterator, parma_polyhedra_library::Pointset_Powerset_Int16_Box, parma_polyhedra_library::Pointset_Powerset_Int16_Box_Iterator, parma_polyhedra_library::Pointset_Powerset_Int32_Box, parma_polyhedra_library::Pointset_Powerset_Int32_Box_Iterator, parma_polyhedra_library::Pointset_Powerset_Int64_Box, parma_polyhedra_library::Pointset_Powerset_Int64_Box_Iterator, parma_polyhedra_library::Pointset_Powerset_Int8_Box, parma_polyhedra_library::Pointset_Powerset_Int8_Box_Iterator, parma_polyhedra_library::Pointset_Powerset_Long_Double_Box, parma_polyhedra_library::Pointset_Powerset_Long_Double_Box_Iterator, parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron, parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron_Iterator, parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double, parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double_Iterator, parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float, parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float_Iterator, parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t, parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t_Iterator, parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t, parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t_Iterator, parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t, parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t_Iterator, parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t, parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t_Iterator, parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double, parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double_Iterator, parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class, parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator, parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class, parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator, parma_polyhedra_library::Pointset_Powerset_Rational_Box, parma_polyhedra_library::Pointset_Powerset_Rational_Box_Iterator, parma_polyhedra_library::Pointset_Powerset_Uint16_Box, parma_polyhedra_library::Pointset_Powerset_Uint16_Box_Iterator, parma_polyhedra_library::Pointset_Powerset_Uint32_Box, parma_polyhedra_library::Pointset_Powerset_Uint32_Box_Iterator, parma_polyhedra_library::Pointset_Powerset_Uint64_Box, parma_polyhedra_library::Pointset_Powerset_Uint64_Box_Iterator, parma_polyhedra_library::Pointset_Powerset_Uint8_Box, parma_polyhedra_library::Pointset_Powerset_Uint8_Box_Iterator, parma_polyhedra_library::Pointset_Powerset_Z_Box, parma_polyhedra_library::Pointset_-

Powerset_Z_Box_Iterator, parma_polyhedra_library::Polyhedron, parma_polyhedra_library::Rational_Box, parma_polyhedra_library::Uint16_Box, parma_polyhedra_library::Uint32_Box, parma_polyhedra_library::Uint64_Box, parma_polyhedra_library::Uint8_Box, and parma_polyhedra_library::Z_Box.

Protected Member Functions

- PPL_Object ()

  Builds an object that points to 'null'.

Static Package Functions

- [static initializer]

Package Attributes

- long ptr

  Stores the value of the C++ pointer.

Static Private Member Functions

- static native void initIDs ()

11.141.1 Detailed Description

Smart pointer to a PPL, C++ object.

Definition at line 32 of file PPL_Object.java.

11.141.2 Constructor & Destructor Documentation

11.141.2.1 parma_polyhedra_library::PPL_Object::PPL_Object () [inline, protected]

Builds an object that points to 'null'.

Definition at line 38 of file PPL_Object.java.

References ptr.

11.141.3 Member Function Documentation

11.141.3.1 parma_polyhedra_library::PPL_Object::[static initializer] () [inline, static, package]

11.141.3.2 static native void parma_polyhedra_library::PPL_Object::initIDs () [static, private]

11.141.4 Member Data Documentation

11.141.4.1 long parma_polyhedra_library::PPL_Object::ptr [package]

Stores the value of the C++ pointer.

Definition at line 35 of file PPL_Object.java.

Referenced by PPL_Object().

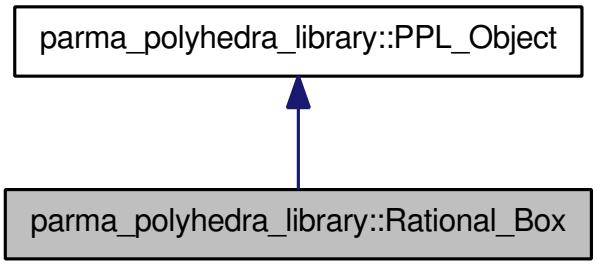
The documentation for this class was generated from the following file:

- PPL_Object.java

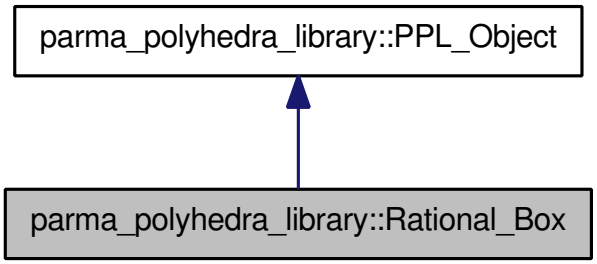
11.142 parma_polyhedra_library::Rational_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Rational_Box.

Inheritance diagram for parma_polyhedra_library::Rational_Box:



Collaboration diagram for parma_polyhedra_library::Rational_Box:



Public Member Functions

- Rational_Box (long num_dimensions, Degenerate_Element kind)

- Rational_Box (Int8_Box y)
- Rational_Box (Int16_Box y)
- Rational_Box (Int32_Box y)
- Rational_Box (Int64_Box y)
- Rational_Box (Uint8_Box y)
- Rational_Box (Uint16_Box y)
- Rational_Box (Uint32_Box y)
- Rational_Box (Uint64_Box y)
- Rational_Box (Z_Box y)
- Rational_Box (Rational_Box y)
- Rational_Box (BD_Shape_int8_t y)
- Rational_Box (BD_Shape_int16_t y)
- Rational_Box (BD_Shape_int32_t y)
- Rational_Box (BD_Shape_int64_t y)
- Rational_Box (BD_Shape_mpz_class y)
- Rational_Box (BD_Shape_mpq_class y)
- Rational_Box (Octagonal_Shape_int8_t y)
- Rational_Box (Octagonal_Shape_int16_t y)
- Rational_Box (Octagonal_Shape_int32_t y)
- Rational_Box (Octagonal_Shape_int64_t y)
- Rational_Box (Octagonal_Shape_mpz_class y)
- Rational_Box (Octagonal_Shape_mpq_class y)
- Rational_Box (C_Polyhedron y)
- Rational_Box (NNC_Polyhedron y)
- Rational_Box (Grid y)
- Rational_Box (Float_Box y)
- Rational_Box (BD_Shape_float y)
- Rational_Box (Octagonal_Shape_float y)
- Rational_Box (Double_Box y)
- Rational_Box (BD_Shape_double y)
- Rational_Box (Octagonal_Shape_double y)
- Rational_Box (Long_Double_Box y)
- Rational_Box (BD_Shape_long_double y)
- Rational_Box (Octagonal_Shape_long_double y)
- Rational_Box (Int8_Box y, Complexity_Class complexity)
- Rational_Box (Int16_Box y, Complexity_Class complexity)
- Rational_Box (Int32_Box y, Complexity_Class complexity)
- Rational_Box (Int64_Box y, Complexity_Class complexity)
- Rational_Box (Uint8_Box y, Complexity_Class complexity)
- Rational_Box (Uint16_Box y, Complexity_Class complexity)
- Rational_Box (Uint32_Box y, Complexity_Class complexity)
- Rational_Box (Uint64_Box y, Complexity_Class complexity)
- Rational_Box (Z_Box y, Complexity_Class complexity)
- Rational_Box (Rational_Box y, Complexity_Class complexity)
- Rational_Box (BD_Shape_int8_t y, Complexity_Class complexity)
- Rational_Box (BD_Shape_int16_t y, Complexity_Class complexity)
- Rational_Box (BD_Shape_int32_t y, Complexity_Class complexity)
- Rational_Box (BD_Shape_int64_t y, Complexity_Class complexity)
- Rational_Box (BD_Shape_mpz_class y, Complexity_Class complexity)
- Rational_Box (BD_Shape_mpq_class y, Complexity_Class complexity)

- Rational_Box (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Rational_Box (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Rational_Box (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Rational_Box (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Rational_Box (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Rational_Box (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Rational_Box (C_Polyhedron y, Complexity_Class complexity)
- Rational_Box (NNC_Polyhedron y, Complexity_Class complexity)
- Rational_Box (Grid y, Complexity_Class complexity)
- Rational_Box (Float_Box y, Complexity_Class complexity)
- Rational_Box (BD_Shape_float y, Complexity_Class complexity)
- Rational_Box (Octagonal_Shape_float y, Complexity_Class complexity)
- Rational_Box (Double_Box y, Complexity_Class complexity)
- Rational_Box (BD_Shape_double y, Complexity_Class complexity)
- Rational_Box (Octagonal_Shape_double y, Complexity_Class complexity)
- Rational_Box (Long_Double_Box y, Complexity_Class complexity)
- Rational_Box (BD_Shape_long_double y, Complexity_Class complexity)
- Rational_Box (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Rational_Box (Constraint_System cs)
- Rational_Box (Congruence_System cs)
- Rational_Box (Generator_System cs)
- native void swap (Rational_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)

- native boolean contains (Rational_Box y)
- native boolean strictly_contains (Rational_Box y)
- native boolean is_disjoint_from (Rational_Box y)
- native boolean equals (Rational_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Rational_Box p)
- native void upper_bound_assign (Rational_Box p)
- native void difference_assign (Rational_Box p)
- native void concatenate_assign (Rational_Box p)
- native void time_elapse_assign (Rational_Box p)
- native boolean upper_bound_assign_if_exact (Rational_Box y)
- native boolean simplify_using_context_assign (Rational_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()

- native void CC76_widening_assign (Rational_Box y, By_Reference< Integer > tp)
- native void widening_assign (Rational_Box y, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Rational_Box y, Constraint_System cs, By_Reference< Integer > tp)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native String toString ()

Static Public Member Functions

- static native Pair< Rational_Box, Pointset_Powerset_NNC_Polyhedron > linear_partition (Rational_Box p, Rational_Box q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Rational_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)

- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.142.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Rational_Box.

Definition at line 33 of file Rational_Box.java.

11.142.2 Constructor & Destructor Documentation

11.142.2.1 parma_polyhedra_library::Rational_Box::Rational_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Rational_Box.java.

References build_cpp_object().

11.142.2.2 parma_polyhedra_library::Rational_Box::Rational_Box () [inline, private]

Definition at line 45 of file Rational_Box.java.

11.142.2.3 parma_polyhedra_library::Rational_Box::Rational_Box (Int8_Box *y*) [inline]

Definition at line 52 of file Rational_Box.java.

References build_cpp_object().

11.142.2.4 parma_polyhedra_library::Rational_Box::Rational_Box (Int16_Box *y*) [inline]

Definition at line 56 of file Rational_Box.java.

References build_cpp_object().

11.142.2.5 parma_polyhedra_library::Rational_Box::Rational_Box (Int32_Box *y*) [inline]

Definition at line 60 of file Rational_Box.java.

References build_cpp_object().

11.142.2.6 parma_polyhedra_library::Rational_Box::Rational_Box (Int64_Box *y*) [inline]

Definition at line 64 of file Rational_Box.java.

References build_cpp_object().

11.142.2.7 parma_polyhedra_library::Rational_Box::Rational_Box (Uint8_Box *y*) [inline]

Definition at line 68 of file Rational_Box.java.

References build_cpp_object().

11.142.2.8 parma_polyhedra_library::Rational_Box::Rational_Box (Uint16_Box *y*) [inline]

Definition at line 72 of file Rational_Box.java.

References build_cpp_object().

11.142.2.9 parma_polyhedra_library::Rational_Box::Rational_Box (Uint32_Box *y*) [inline]

Definition at line 76 of file Rational_Box.java.

References build_cpp_object().

11.142.2.10 parma_polyhedra_library::Rational_Box::Rational_Box (Uint64_Box *y*) [inline]

Definition at line 80 of file Rational_Box.java.

References build_cpp_object().

11.142.2.11 parma_polyhedra_library::Rational_Box::Rational_Box (Z_Box *y*) [inline]

Definition at line 84 of file Rational_Box.java.

References build_cpp_object().

11.142.2.12 parma_polyhedra_library::Rational_Box::Rational_Box (Rational_Box *y*) [inline]

Definition at line 88 of file Rational_Box.java.

References build_cpp_object().

11.142.2.13 parma_polyhedra_library::Rational_Box::Rational_Box (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Rational_Box.java.

References build_cpp_object().

11.142.2.14 parma_polyhedra_library::Rational_Box::Rational_Box (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Rational_Box.java.

References build_cpp_object().

11.142.2.15 parma_polyhedra_library::Rational_Box::Rational_Box (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Rational_Box.java.

References build_cpp_object().

11.142.2.16 parma_polyhedra_library::Rational_Box::Rational_Box (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Rational_Box.java.

References build_cpp_object().

11.142.2.17 parma_polyhedra_library::Rational_Box::Rational_Box (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Rational_Box.java.

References build_cpp_object().

11.142.2.18 parma_polyhedra_library::Rational_Box::Rational_Box (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Rational_Box.java.

References build_cpp_object().

11.142.2.19 parma_polyhedra_library::Rational_Box::Rational_Box (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Rational_Box.java.

References build_cpp_object().

11.142.2.20 parma_polyhedra_library::Rational_Box::Rational_Box (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Rational_Box.java.

References build_cpp_object().

11.142.2.21 parma_polyhedra_library::Rational_Box::Rational_Box (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Rational_Box.java.

References build_cpp_object().

11.142.2.22 parma_polyhedra_library::Rational_Box::Rational_Box (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Rational_Box.java.

References build_cpp_object().

11.142.2.23 parma_polyhedra_library::Rational_Box::Rational_Box (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Rational_Box.java.

References build_cpp_object().

11.142.2.24 parma_polyhedra_library::Rational_Box::Rational_Box (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Rational_Box.java.

References build_cpp_object().

11.142.2.25 parma_polyhedra_library::Rational_Box::Rational_Box (C_Polyhedron *y*) [inline]

Definition at line 140 of file Rational_Box.java.

References build_cpp_object().

11.142.2.26 parma_polyhedra_library::Rational_Box::Rational_Box (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Rational_Box.java.

References build_cpp_object().

11.142.2.27 parma_polyhedra_library::Rational_Box::Rational_Box (Grid *y*) [inline]

Definition at line 148 of file Rational_Box.java.

References build_cpp_object().

11.142.2.28 parma_polyhedra_library::Rational_Box::Rational_Box (Float_Box *y*) [inline]

Definition at line 152 of file Rational_Box.java.

References build_cpp_object().

11.142.2.29 parma_polyhedra_library::Rational_Box::Rational_Box (BD_Shape_float *y*) [inline]

Definition at line 156 of file Rational_Box.java.

References build_cpp_object().

11.142.2.30 parma_polyhedra_library::Rational_Box::Rational_Box (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Rational_Box.java.

References build_cpp_object().

11.142.2.31 parma_polyhedra_library::Rational_Box::Rational_Box (Double_Box *y*) [inline]

Definition at line 164 of file Rational_Box.java.

References build_cpp_object().

11.142.2.32 parma_polyhedra_library::Rational_Box::Rational_Box (BD_Shape_double *y*) [inline]

Definition at line 168 of file Rational_Box.java.

References build_cpp_object().

11.142.2.33 parma_polyhedra_library::Rational_Box::Rational_Box (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Rational_Box.java.

References build_cpp_object().

11.142.2.34 parma_polyhedra_library::Rational_Box::Rational_Box (Long_Double_Box *y*) [inline]

Definition at line 176 of file Rational_Box.java.

References build_cpp_object().

11.142.2.35 parma_polyhedra_library::Rational_Box::Rational_Box (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Rational_Box.java.

References build_cpp_object().

11.142.2.36 parma_polyhedra_library::Rational_Box::Rational_Box (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Rational_Box.java.

References build_cpp_object().

11.142.2.37 parma_polyhedra_library::Rational_Box::Rational_Box (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Rational_Box.java.

References build_cpp_object().

11.142.2.38 parma_polyhedra_library::Rational_Box::Rational_Box (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Rational_Box.java.

References build_cpp_object().

11.142.2.39 parma_polyhedra_library::Rational_Box::Rational_Box (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Rational_Box.java.

References build_cpp_object().

11.142.2.40 parma_polyhedra_library::Rational_Box::Rational_Box (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Rational_Box.java.

References build_cpp_object().

11.142.2.41 parma_polyhedra_library::Rational_Box::Rational_Box (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Rational_Box.java.

References build_cpp_object().

11.142.2.42 parma_polyhedra_library::Rational_Box::Rational_Box (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Rational_Box.java.

References build_cpp_object().

11.142.2.43 parma_polyhedra_library::Rational_Box::Rational_Box (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Rational_Box.java.

References build_cpp_object().

11.142.2.44 parma_polyhedra_library::Rational_Box::Rational_Box (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Rational_Box.java.

References build_cpp_object().

11.142.2.45 parma_polyhedra_library::Rational_Box::Rational_Box (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Rational_Box.java.

References build_cpp_object().

11.142.2.46 parma_polyhedra_library::Rational_Box::Rational_Box (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Rational_Box.java.

References build_cpp_object().

11.142.2.47 parma_polyhedra_library::Rational_Box::Rational_Box (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Rational_Box.java.

References build_cpp_object().

11.142.2.48 parma_polyhedra_library::Rational_Box::Rational_Box (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Rational_Box.java.

References build_cpp_object().

11.142.2.49 parma_polyhedra_library::Rational_Box::Rational_Box (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Rational_Box.java.

References build_cpp_object().

11.142.2.50 parma_polyhedra_library::Rational_Box::Rational_Box (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Rational_Box.java.

References build_cpp_object().

11.142.2.51 parma_polyhedra_library::Rational_Box::Rational_Box (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Rational_Box.java.

References build_cpp_object().

11.142.2.52 parma_polyhedra_library::Rational_Box::Rational_Box (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Rational_Box.java.

References build_cpp_object().

11.142.2.53 parma_polyhedra_library::Rational_Box::Rational_Box (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Rational_Box.java.

References build_cpp_object().

11.142.2.54 parma_polyhedra_library::Rational_Box::Rational_Box (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Rational_Box.java.

References build_cpp_object().

11.142.2.55 parma_polyhedra_library::Rational_Box::Rational_Box (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Rational_Box.java.

References build_cpp_object().

11.142.2.56 parma_polyhedra_library::Rational_Box::Rational_Box (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Rational_Box.java.

References build_cpp_object().

11.142.2.57 parma_polyhedra_library::Rational_Box::Rational_Box (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Rational_Box.java.

References build_cpp_object().

11.142.2.58 parma_polyhedra_library::Rational_Box::Rational_Box (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Rational_Box.java.

References build_cpp_object().

11.142.2.59 parma_polyhedra_library::Rational_Box::Rational_Box (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Rational_Box.java.

References build_cpp_object().

11.142.2.60 parma_polyhedra_library::Rational_Box::Rational_Box (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Rational_Box.java.

References build_cpp_object().

11.142.2.61 parma_polyhedra_library::Rational_Box::Rational_Box (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Rational_Box.java.

References build_cpp_object().

11.142.2.62 parma_polyhedra_library::Rational_Box::Rational_Box (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Rational_Box.java.

References build_cpp_object().

11.142.2.63 parma_polyhedra_library::Rational_Box::Rational_Box (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Rational_Box.java.

References build_cpp_object().

11.142.2.64 parma_polyhedra_library::Rational_Box::Rational_Box (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Rational_Box.java.

References build_cpp_object().

11.142.2.65 parma_polyhedra_library::Rational_Box::Rational_Box (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Rational_Box.java.

References build_cpp_object().

11.142.2.66 parma_polyhedra_library::Rational_Box::Rational_Box (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Rational_Box.java.

References build_cpp_object().

11.142.2.67 parma_polyhedra_library::Rational_Box::Rational_Box (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Rational_Box.java.

References build_cpp_object().

11.142.2.68 parma_polyhedra_library::Rational_Box::Rational_Box (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Rational_Box.java.

References build_cpp_object().

11.142.2.69 parma_polyhedra_library::Rational_Box::Rational_Box (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Rational_Box.java.

References build_cpp_object().

11.142.2.70 parma_polyhedra_library::Rational_Box::Rational_Box (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Rational_Box.java.

References build_cpp_object().

11.142.2.71 parma_polyhedra_library::Rational_Box::Rational_Box (Constraint_System *cs*) [inline]

Definition at line 334 of file Rational_Box.java.

References build_cpp_object().

11.142.2.72 parma_polyhedra_library::Rational_Box::Rational_Box (Congruence_System *cs*) [inline]

Definition at line 338 of file Rational_Box.java.

References build_cpp_object().

11.142.2.73 parma_polyhedra_library::Rational_Box::Rational_Box (Generator_System *cs*) [inline]

Definition at line 342 of file Rational_Box.java.

References build_cpp_object().

11.142.3 Member Function Documentation

11.142.3.1 native void parma_polyhedra_library::Rational_Box::add_congruence (Congruence *c*)

11.142.3.2 native void parma_polyhedra_library::Rational_Box::add_congruences (Congruence_System *c*)

11.142.3.3 native void parma_polyhedra_library::Rational_Box::add_constraint (Constraint *c*)

11.142.3.4 native void parma_polyhedra_library::Rational_Box::add_constraints (Constraint_System *c*)

11.142.3.5 native void parma_polyhedra_library::Rational_Box::add_space_dimensions_and_embed (long *m*)

11.142.3.6 native void parma_polyhedra_library::Rational_Box::add_space_dimensions_and_project (long *m*)

11.142.3.7 native long parma_polyhedra_library::Rational_Box::affine_dimension ()

11.142.3.8 native void parma_polyhedra_library::Rational_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.142.3.9 native void parma_polyhedra_library::Rational_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.142.3.10 native String parma_polyhedra_library::Rational_Box::ascii_dump ()

11.142.3.11 native void parma_polyhedra_library::Rational_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.142.3.12 native void parma_polyhedra_library::Rational_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.142.3.13 native boolean parma_polyhedra_library::Rational_Box::bounds_from_above (Linear_Expression *expr*)

11.142.3.14 native boolean parma_polyhedra_library::Rational_Box::bounds_from_below (Linear_Expression *expr*)

11.142.3.15 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.142.3.16 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.142.3.17 native void parma_polyhedra_library::Rational_Box::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.142.3.18 native void parma_polyhedra_library::Rational_Box::build_cpp_object (BD_Shape_long_double *y*) `[private]`

11.142.3.19 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) `[private]`

11.142.3.20 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Long_Double_Box *y*) `[private]`

11.142.3.21 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) `[private]`

11.142.3.22 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.142.3.23 native void parma_polyhedra_library::Rational_Box::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.142.3.24 native void parma_polyhedra_library::Rational_Box::build_cpp_object (BD_Shape_double *y*) [private]

11.142.3.25 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.142.3.26 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Double_Box *y*) [private]

11.142.3.27 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.142.3.28 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.142.3.29 native void parma_polyhedra_library::Rational_Box::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.142.3.30 native void parma_polyhedra_library::Rational_Box::build_cpp_object (BD_Shape_float *y*) [private]

11.142.3.31 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.142.3.32 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Float_Box *y*) [private]

11.142.3.33 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.142.3.34 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Grid *y*) [private]

11.142.3.35 native void parma_polyhedra_library::Rational_Box::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.142.3.36 native void parma_polyhedra_library::Rational_Box::build_cpp_object (NNC_Polyhedron *y*) [private]

11.142.3.37 native void parma_polyhedra_library::Rational_Box::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.142.3.38 native void parma_polyhedra_library::Rational_Box::build_cpp_object (C_Polyhedron *y*) [private]

11.142.3.39 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.142.3.40 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.142.3.41 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.142.3.42 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.142.3.43 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.142.3.44 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.142.3.45 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.142.3.46 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.142.3.47 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.142.3.48 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.142.3.49 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.142.3.50 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.142.3.51 native void parma_polyhedra_library::Rational_Box::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.142.3.52 native void parma_polyhedra_library::Rational_Box::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.142.3.53 native void parma_polyhedra_library::Rational_Box::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.142.3.54 native void parma_polyhedra_library::Rational_Box::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.142.3.55 native void parma_polyhedra_library::Rational_Box::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.142.3.56 native void parma_polyhedra_library::Rational_Box::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.142.3.57 native void parma_polyhedra_library::Rational_Box::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.142.3.58 native void parma_polyhedra_library::Rational_Box::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.142.3.59 native void parma_polyhedra_library::Rational_Box::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.142.3.60 native void parma_polyhedra_library::Rational_Box::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.142.3.61 native void parma_polyhedra_library::Rational_Box::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.142.3.62 native void parma_polyhedra_library::Rational_Box::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.142.3.63 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.142.3.64 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Rational_Box *y*) [private]

11.142.3.65 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.142.3.66 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Z_Box *y*) [private]

11.142.3.67 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.142.3.68 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Uint64_Box *y*) [private]

11.142.3.69 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.142.3.70 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Uint32_Box *y*) [private]

11.142.3.71 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.142.3.72 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Uint16_Box *y*) [private]

11.142.3.73 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.142.3.74 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Uint8_Box *y*) [private]

11.142.3.75 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.142.3.76 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Int64_Box *y*) [private]

11.142.3.77 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.142.3.78 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Int32_Box *y*) [private]

11.142.3.79 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.142.3.80 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Int16_Box *y*) [private]

11.142.3.81 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.142.3.82 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Int8_Box *y*) [private]

11.142.3.83 native void parma_polyhedra_library::Rational_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.142.3.84 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Generator_System *cs*) [private]

11.142.3.85 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Congruence_System *cs*) [private]

11.142.3.86 native void parma_polyhedra_library::Rational_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Rational_Box().

11.142.3.87 native void parma_polyhedra_library::Rational_Box::CC76_widening_assign (Rational_Box *y*, By_Reference< Integer > *tp*)

11.142.3.88 native void parma_polyhedra_library::Rational_Box::concatenate_assign (Rational_Box *p*)

11.142.3.89 native Congruence_System parma_polyhedra_library::Rational_Box::congruences ()

11.142.3.90 native boolean parma_polyhedra_library::Rational_Box::constrains (Variable *var*)

11.142.3.91 native Constraint_System parma_polyhedra_library::Rational_Box::constraints ()

11.142.3.92 native boolean parma_polyhedra_library::Rational_Box::contains (Rational_Box *y*)

11.142.3.93 native boolean parma_polyhedra_library::Rational_Box::contains_integer_point ()

11.142.3.94 native void parma_polyhedra_library::Rational_Box::difference_assign (Rational_Box *p*)

11.142.3.95 native void parma_polyhedra_library::Rational_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.142.3.96 native void parma_polyhedra_library::Rational_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.142.3.97 boolean parma_polyhedra_library::Rational_Box::equals (Object *y*) [inline]

Definition at line 465 of file Rational_Box.java.

References equals().

11.142.3.98 native boolean parma_polyhedra_library::Rational_Box::equals (Rational_Box *p*)

Referenced by equals().

11.142.3.99 native void parma_polyhedra_library::Rational_Box::expand_space_dimension (Variable *var*, long *m*)

11.142.3.100 native long parma_polyhedra_library::Rational_Box::external_memory_in_bytes ()

11.142.3.101 native void parma_polyhedra_library::Rational_Box::finalize () [protected]

11.142.3.102 native void parma_polyhedra_library::Rational_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.142.3.103 native void parma_polyhedra_library::Rational_Box::free ()

11.142.3.104 native boolean parma_polyhedra_library::Rational_Box::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.142.3.105 native void parma_polyhedra_library::Rational_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.142.3.106 native void parma_polyhedra_library::Rational_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.142.3.107 native void parma_polyhedra_library::Rational_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.142.3.108 native void parma_polyhedra_library::Rational_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.142.3.109 native void parma_polyhedra_library::Rational_Box::intersection_assign (Rational_Box *p*)

11.142.3.110 native boolean parma_polyhedra_library::Rational_Box::is_bounded ()

11.142.3.111 native boolean parma_polyhedra_library::Rational_Box::is_discrete ()

11.142.3.112 native boolean parma_polyhedra_library::Rational_Box::is_disjoint_from (Rational_Box *y*)

11.142.3.113 native boolean parma_polyhedra_library::Rational_Box::is_empty ()

11.142.3.114 native boolean parma_polyhedra_library::Rational_Box::is_topologically_closed ()

11.142.3.115 native boolean parma_polyhedra_library::Rational_Box::is_universe ()

11.142.3.116 native void parma_polyhedra_library::Rational_Box::limited_CC76_extrapolation_assign (Rational_Box *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.142.3.117 static native Pair<Rational_Box, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Rational_Box::linear_partition (Rational_Box *p*, Rational_Box *q*) `[static]`

11.142.3.118 native void parma_polyhedra_library::Rational_Box::map_space_dimensions (Partial_Function *pfunc*)

11.142.3.119 native boolean parma_polyhedra_library::Rational_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.142.3.120 native boolean parma_polyhedra_library::Rational_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.142.3.121 native boolean parma_polyhedra_library::Rational_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.142.3.122 native boolean parma_polyhedra_library::Rational_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.142.3.123 native Congruence_System parma_polyhedra_library::Rational_Box::minimized_congruences ()

11.142.3.124 native Constraint_System parma_polyhedra_library::Rational_Box::minimized_constraints ()

11.142.3.125 native boolean parma_polyhedra_library::Rational_Box::OK ()

11.142.3.126 native void parma_polyhedra_library::Rational_Box::refine_with_congruence (Congruence *c*)

11.142.3.127 native void parma_polyhedra_library::Rational_Box::refine_with_congruences (Congruence_System *c*)

11.142.3.128 native void parma_polyhedra_library::Rational_Box::refine_with_constraint (Constraint *c*)

11.142.3.129 native void parma_polyhedra_library::Rational_Box::refine_with_constraints (Constraint_System *c*)

11.142.3.130 native Poly_Con_Relation parma_polyhedra_library::Rational_Box::relation_with (Congruence *c*)

11.142.3.131 native Poly_Gen_Relation parma_polyhedra_library::Rational_Box::relation_with (Generator *c*)

11.142.3.132 native Poly_Con_Relation parma_polyhedra_library::Rational_Box::relation_with (Constraint *c*)

11.142.3.133 native void parma_polyhedra_library::Rational_Box::remove_higher_space_dimensions (long *new_dimension*)

11.142.3.134 native void parma_polyhedra_library::Rational_Box::remove_space_dimensions (Variables_Set *vars*)

11.142.3.135 native boolean parma_polyhedra_library::Rational_Box::simplify_using_context_assign (Rational_Box *p*)

11.142.3.136 native long parma_polyhedra_library::Rational_Box::space_dimension ()

11.142.3.137 native boolean parma_polyhedra_library::Rational_Box::strictly_contains (Rational_Box *y*)

11.142.3.138 native void parma_polyhedra_library::Rational_Box::swap (Rational_Box *y*)

11.142.3.139 native void parma_polyhedra_library::Rational_Box::time_elapse_assign (Rational_Box *p*)

11.142.3.140 native void parma_polyhedra_library::Rational_Box::topological_closure_assign ()

11.142.3.141 native String parma_polyhedra_library::Rational_Box::toString ()

11.142.3.142 native long parma_polyhedra_library::Rational_Box::total_memory_in_bytes ()

11.142.3.143 native void parma_polyhedra_library::Rational_Box::unconstrain_space_dimension (Variable *var*)

11.142.3.144 native void parma_polyhedra_library::Rational_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.142.3.145 native void parma_polyhedra_library::Rational_Box::upper_bound_assign (Rational_Box *p*)

11.142.3.146 native boolean parma_polyhedra_library::Rational_Box::upper_bound_assign_if_exact (Rational_Box *y*)

11.142.3.147 native void parma_polyhedra_library::Rational_Box::widening_assign (Rational_Box *y*, By_Reference< Integer > *tp*)

11.142.3.148 native void parma_polyhedra_library::Rational_Box::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

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

- Rational_Box.java

11.143 parma_polyhedra_library::Termination Class Reference

Static Public Member Functions

- static native boolean termination_test_MS_Int8_Box (Int8_Box p)

- static native boolean termination_test_PR_Int8_Box (Int8_Box p)
- static native boolean one_affine_ranking_function_MS_Int8_Box (Int8_Box p, Generator g)
- static native boolean one_affine_ranking_function_PR_Int8_Box (Int8_Box p, Generator g)
- static native void all_affine_ranking_functions_MS_Int8_Box (Int8_Box p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Int8_Box (Int8_Box p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Int8_Box (Int8_Box p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Int8_Box_2 (Int8_Box p_before, Int8_Box p_after)
- static native boolean termination_test_PR_Int8_Box_2 (Int8_Box p_before, Int8_Box p_after)
- static native boolean one_affine_ranking_function_MS_Int8_Box_2 (Int8_Box p_before, Int8_Box p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Int8_Box_2 (Int8_Box p_before, Int8_Box p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Int8_Box_2 (Int8_Box p_before, Int8_Box p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Int8_Box_2 (Int8_Box p_before, Int8_Box p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Int8_Box_2 (Int8_Box p_before, Int8_Box p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Int16_Box (Int16_Box p)
- static native boolean termination_test_PR_Int16_Box (Int16_Box p)
- static native boolean one_affine_ranking_function_MS_Int16_Box (Int16_Box p, Generator g)
- static native boolean one_affine_ranking_function_PR_Int16_Box (Int16_Box p, Generator g)
- static native void all_affine_ranking_functions_MS_Int16_Box (Int16_Box p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Int16_Box (Int16_Box p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Int16_Box (Int16_Box p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Int16_Box_2 (Int16_Box p_before, Int16_Box p_after)
- static native boolean termination_test_PR_Int16_Box_2 (Int16_Box p_before, Int16_Box p_after)
- static native boolean one_affine_ranking_function_MS_Int16_Box_2 (Int16_Box p_before, Int16_Box p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Int16_Box_2 (Int16_Box p_before, Int16_Box p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Int16_Box_2 (Int16_Box p_before, Int16_Box p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Int16_Box_2 (Int16_Box p_before, Int16_Box p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Int16_Box_2 (Int16_Box p_before, Int16_Box p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Int32_Box (Int32_Box p)
- static native boolean termination_test_PR_Int32_Box (Int32_Box p)
- static native boolean one_affine_ranking_function_MS_Int32_Box (Int32_Box p, Generator g)
- static native boolean one_affine_ranking_function_PR_Int32_Box (Int32_Box p, Generator g)
- static native void all_affine_ranking_functions_MS_Int32_Box (Int32_Box p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Int32_Box (Int32_Box p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Int32_Box (Int32_Box p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Int32_Box_2 (Int32_Box p_before, Int32_Box p_after)
- static native boolean termination_test_PR_Int32_Box_2 (Int32_Box p_before, Int32_Box p_after)
- static native boolean one_affine_ranking_function_MS_Int32_Box_2 (Int32_Box p_before, Int32_Box p_after, Generator g)

- static native boolean one_affine_ranking_function_PR_Int32_Box_2 (Int32_Box p_before, Int32_Box p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Int32_Box_2 (Int32_Box p_before, Int32_Box p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Int32_Box_2 (Int32_Box p_before, Int32_Box p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Int32_Box_2 (Int32_Box p_before, Int32_Box p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Int64_Box (Int64_Box p)
- static native boolean termination_test_PR_Int64_Box (Int64_Box p)
- static native boolean one_affine_ranking_function_MS_Int64_Box (Int64_Box p, Generator g)
- static native boolean one_affine_ranking_function_PR_Int64_Box (Int64_Box p, Generator g)
- static native void all_affine_ranking_functions_MS_Int64_Box (Int64_Box p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Int64_Box (Int64_Box p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Int64_Box (Int64_Box p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Int64_Box_2 (Int64_Box p_before, Int64_Box p_after)
- static native boolean termination_test_PR_Int64_Box_2 (Int64_Box p_before, Int64_Box p_after)
- static native boolean one_affine_ranking_function_MS_Int64_Box_2 (Int64_Box p_before, Int64_Box p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Int64_Box_2 (Int64_Box p_before, Int64_Box p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Int64_Box_2 (Int64_Box p_before, Int64_Box p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Int64_Box_2 (Int64_Box p_before, Int64_Box p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Int64_Box_2 (Int64_Box p_before, Int64_Box p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Uint8_Box (Uint8_Box p)
- static native boolean termination_test_PR_Uint8_Box (Uint8_Box p)
- static native boolean one_affine_ranking_function_MS_Uint8_Box (Uint8_Box p, Generator g)
- static native boolean one_affine_ranking_function_PR_Uint8_Box (Uint8_Box p, Generator g)
- static native void all_affine_ranking_functions_MS_Uint8_Box (Uint8_Box p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Uint8_Box (Uint8_Box p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Uint8_Box (Uint8_Box p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Uint8_Box_2 (Uint8_Box p_before, Uint8_Box p_after)
- static native boolean termination_test_PR_Uint8_Box_2 (Uint8_Box p_before, Uint8_Box p_after)
- static native boolean one_affine_ranking_function_MS_Uint8_Box_2 (Uint8_Box p_before, Uint8_Box p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Uint8_Box_2 (Uint8_Box p_before, Uint8_Box p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Uint8_Box_2 (Uint8_Box p_before, Uint8_Box p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Uint8_Box_2 (Uint8_Box p_before, Uint8_Box p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Uint8_Box_2 (Uint8_Box p_before, Uint8_Box p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Uint16_Box (Uint16_Box p)
- static native boolean termination_test_PR_Uint16_Box (Uint16_Box p)
- static native boolean one_affine_ranking_function_MS_Uint16_Box (Uint16_Box p, Generator g)

- static native boolean one_affine_ranking_function_PR_Uint16_Box (Uint16_Box p, Generator g)
- static native void all_affine_ranking_functions_MS_Uint16_Box (Uint16_Box p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Uint16_Box (Uint16_Box p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Uint16_Box (Uint16_Box p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Uint16_Box_2 (Uint16_Box p_before, Uint16_Box p_-after)
- static native boolean termination_test_PR_Uint16_Box_2 (Uint16_Box p_before, Uint16_Box p_-after)
- static native boolean one_affine_ranking_function_MS_Uint16_Box_2 (Uint16_Box p_before, Uint16_Box p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Uint16_Box_2 (Uint16_Box p_before, Uint16_Box p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Uint16_Box_2 (Uint16_Box p_before, Uint16_Box p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Uint16_Box_2 (Uint16_Box p_before, Uint16_-Box p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Uint16_Box_2 (Uint16_Box p_before, Uint16_Box p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Uint32_Box (Uint32_Box p)
- static native boolean termination_test_PR_Uint32_Box (Uint32_Box p)
- static native boolean one_affine_ranking_function_MS_Uint32_Box (Uint32_Box p, Generator g)
- static native boolean one_affine_ranking_function_PR_Uint32_Box (Uint32_Box p, Generator g)
- static native void all_affine_ranking_functions_MS_Uint32_Box (Uint32_Box p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Uint32_Box (Uint32_Box p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Uint32_Box (Uint32_Box p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Uint32_Box_2 (Uint32_Box p_before, Uint32_Box p_-after)
- static native boolean termination_test_PR_Uint32_Box_2 (Uint32_Box p_before, Uint32_Box p_-after)
- static native boolean one_affine_ranking_function_MS_Uint32_Box_2 (Uint32_Box p_before, Uint32_Box p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Uint32_Box_2 (Uint32_Box p_before, Uint32_Box p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Uint32_Box_2 (Uint32_Box p_before, Uint32_Box p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Uint32_Box_2 (Uint32_Box p_before, Uint32_-Box p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Uint32_Box_2 (Uint32_Box p_before, Uint32_Box p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Uint64_Box (Uint64_Box p)
- static native boolean termination_test_PR_Uint64_Box (Uint64_Box p)
- static native boolean one_affine_ranking_function_MS_Uint64_Box (Uint64_Box p, Generator g)
- static native boolean one_affine_ranking_function_PR_Uint64_Box (Uint64_Box p, Generator g)
- static native void all_affine_ranking_functions_MS_Uint64_Box (Uint64_Box p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Uint64_Box (Uint64_Box p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Uint64_Box (Uint64_Box p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Uint64_Box_2 (Uint64_Box p_before, Uint64_Box p_-after)

- static native boolean termination_test_PR_Uint64_Box_2 (Uint64_Box p_before, Uint64_Box p_-after)
- static native boolean one_affine_ranking_function_MS_Uint64_Box_2 (Uint64_Box p_before, Uint64_Box p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Uint64_Box_2 (Uint64_Box p_before, Uint64_Box p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Uint64_Box_2 (Uint64_Box p_before, Uint64_Box p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Uint64_Box_2 (Uint64_Box p_before, Uint64_-Box p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Uint64_Box_2 (Uint64_Box p_before, Uint64_Box p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Z_Box (Z_Box p)
- static native boolean termination_test_PR_Z_Box (Z_Box p)
- static native boolean one_affine_ranking_function_MS_Z_Box (Z_Box p, Generator g)
- static native boolean one_affine_ranking_function_PR_Z_Box (Z_Box p, Generator g)
- static native void all_affine_ranking_functions_MS_Z_Box (Z_Box p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Z_Box (Z_Box p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Z_Box (Z_Box p, Polyhedron ph_-decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Z_Box_2 (Z_Box p_before, Z_Box p_after)
- static native boolean termination_test_PR_Z_Box_2 (Z_Box p_before, Z_Box p_after)
- static native boolean one_affine_ranking_function_MS_Z_Box_2 (Z_Box p_before, Z_Box p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Z_Box_2 (Z_Box p_before, Z_Box p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Z_Box_2 (Z_Box p_before, Z_Box p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Z_Box_2 (Z_Box p_before, Z_Box p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Z_Box_2 (Z_Box p_before, Z_Box p_-after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Rational_Box (Rational_Box p)
- static native boolean termination_test_PR_Rational_Box (Rational_Box p)
- static native boolean one_affine_ranking_function_MS_Rational_Box (Rational_Box p, Generator g)
- static native boolean one_affine_ranking_function_PR_Rational_Box (Rational_Box p, Generator g)
- static native void all_affine_ranking_functions_MS_Rational_Box (Rational_Box p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Rational_Box (Rational_Box p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Rational_Box (Rational_Box p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Rational_Box_2 (Rational_Box p_before, Rational_Box p_after)
- static native boolean termination_test_PR_Rational_Box_2 (Rational_Box p_before, Rational_Box p_after)
- static native boolean one_affine_ranking_function_MS_Rational_Box_2 (Rational_Box p_before, Rational_Box p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Rational_Box_2 (Rational_Box p_before, Rational_Box p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Rational_Box_2 (Rational_Box p_before, Rational_Box p_after, Polyhedron ph)

- static native void all_affine_ranking_functions_PR_Rational_Box_2 (Rational_Box p_before, Rational_Box p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Rational_Box_2 (Rational_Box p_before, Rational_Box p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_BD_Shape_int8_t (BD_Shape_int8_t p)
- static native boolean termination_test_PR_BD_Shape_int8_t (BD_Shape_int8_t p)
- static native boolean one_affine_ranking_function_MS_BD_Shape_int8_t (BD_Shape_int8_t p, Generator g)
- static native boolean one_affine_ranking_function_PR_BD_Shape_int8_t (BD_Shape_int8_t p, Generator g)
- static native void all_affine_ranking_functions_MS_BD_Shape_int8_t (BD_Shape_int8_t p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_BD_Shape_int8_t (BD_Shape_int8_t p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_BD_Shape_int8_t (BD_Shape_int8_t p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_BD_Shape_int8_t_2 (BD_Shape_int8_t p_before, BD_Shape_int8_t p_after)
- static native boolean termination_test_PR_BD_Shape_int8_t_2 (BD_Shape_int8_t p_before, BD_Shape_int8_t p_after)
- static native boolean one_affine_ranking_function_MS_BD_Shape_int8_t_2 (BD_Shape_int8_t p_before, BD_Shape_int8_t p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_BD_Shape_int8_t_2 (BD_Shape_int8_t p_before, BD_Shape_int8_t p_after, Generator g)
- static native void all_affine_ranking_functions_MS_BD_Shape_int8_t_2 (BD_Shape_int8_t p_before, BD_Shape_int8_t p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_BD_Shape_int8_t_2 (BD_Shape_int8_t p_before, BD_Shape_int8_t p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_BD_Shape_int8_t_2 (BD_Shape_int8_t p_before, BD_Shape_int8_t p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_BD_Shape_int16_t (BD_Shape_int16_t p)
- static native boolean termination_test_PR_BD_Shape_int16_t (BD_Shape_int16_t p)
- static native boolean one_affine_ranking_function_MS_BD_Shape_int16_t (BD_Shape_int16_t p, Generator g)
- static native boolean one_affine_ranking_function_PR_BD_Shape_int16_t (BD_Shape_int16_t p, Generator g)
- static native void all_affine_ranking_functions_MS_BD_Shape_int16_t (BD_Shape_int16_t p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_BD_Shape_int16_t (BD_Shape_int16_t p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_BD_Shape_int16_t (BD_Shape_int16_t p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_BD_Shape_int16_t_2 (BD_Shape_int16_t p_before, BD_Shape_int16_t p_after)
- static native boolean termination_test_PR_BD_Shape_int16_t_2 (BD_Shape_int16_t p_before, BD_Shape_int16_t p_after)
- static native boolean one_affine_ranking_function_MS_BD_Shape_int16_t_2 (BD_Shape_int16_t p_before, BD_Shape_int16_t p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_BD_Shape_int16_t_2 (BD_Shape_int16_t p_before, BD_Shape_int16_t p_after, Generator g)
- static native void all_affine_ranking_functions_MS_BD_Shape_int16_t_2 (BD_Shape_int16_t p_before, BD_Shape_int16_t p_after, Polyhedron ph)

- static native void all_affine_ranking_functions_PR_BD_Shape_int16_t_2 (BD_Shape_int16_t p_-before, BD_Shape_int16_t p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_BD_Shape_int16_t_2 (BD_Shape_-int16_t p_before, BD_Shape_int16_t p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_BD_Shape_int32_t (BD_Shape_int32_t p)
- static native boolean termination_test_PR_BD_Shape_int32_t (BD_Shape_int32_t p)
- static native boolean one_affine_ranking_function_MS_BD_Shape_int32_t (BD_Shape_int32_t p, Generator g)
- static native boolean one_affine_ranking_function_PR_BD_Shape_int32_t (BD_Shape_int32_t p, Generator g)
- static native void all_affine_ranking_functions_MS_BD_Shape_int32_t (BD_Shape_int32_t p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_BD_Shape_int32_t (BD_Shape_int32_t p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_BD_Shape_int32_t (BD_Shape_int32_t p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_BD_Shape_int32_t_2 (BD_Shape_int32_t p_before, BD_Shape_int32_t p_after)
- static native boolean termination_test_PR_BD_Shape_int32_t_2 (BD_Shape_int32_t p_before, BD_Shape_int32_t p_after)
- static native boolean one_affine_ranking_function_MS_BD_Shape_int32_t_2 (BD_Shape_int32_t p_before, BD_Shape_int32_t p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_BD_Shape_int32_t_2 (BD_Shape_int32_-t p_before, BD_Shape_int32_t p_after, Generator g)
- static native void all_affine_ranking_functions_MS_BD_Shape_int32_t_2 (BD_Shape_int32_t p_-before, BD_Shape_int32_t p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_BD_Shape_int32_t_2 (BD_Shape_int32_t p_-before, BD_Shape_int32_t p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_BD_Shape_int32_t_2 (BD_Shape_-int32_t p_before, BD_Shape_int32_t p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_BD_Shape_int64_t (BD_Shape_int64_t p)
- static native boolean termination_test_PR_BD_Shape_int64_t (BD_Shape_int64_t p)
- static native boolean one_affine_ranking_function_MS_BD_Shape_int64_t (BD_Shape_int64_t p, Generator g)
- static native boolean one_affine_ranking_function_PR_BD_Shape_int64_t (BD_Shape_int64_t p, Generator g)
- static native void all_affine_ranking_functions_MS_BD_Shape_int64_t (BD_Shape_int64_t p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_BD_Shape_int64_t (BD_Shape_int64_t p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_BD_Shape_int64_t (BD_Shape_int64_t p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_BD_Shape_int64_t_2 (BD_Shape_int64_t p_before, BD_Shape_int64_t p_after)
- static native boolean termination_test_PR_BD_Shape_int64_t_2 (BD_Shape_int64_t p_before, BD_Shape_int64_t p_after)
- static native boolean one_affine_ranking_function_MS_BD_Shape_int64_t_2 (BD_Shape_int64_t p_before, BD_Shape_int64_t p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_BD_Shape_int64_t_2 (BD_Shape_int64_-t p_before, BD_Shape_int64_t p_after, Generator g)
- static native void all_affine_ranking_functions_MS_BD_Shape_int64_t_2 (BD_Shape_int64_t p_-before, BD_Shape_int64_t p_after, Polyhedron ph)

- static native void all_affine_ranking_functions_PR_BD_Shape_int64_t_2 (BD_Shape_int64_t p_-before, BD_Shape_int64_t p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_BD_Shape_int64_t_2 (BD_Shape_-int64_t p_before, BD_Shape_int64_t p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_BD_Shape_mpz_class (BD_Shape_mpz_class p)
- static native boolean termination_test_PR_BD_Shape_mpz_class (BD_Shape_mpz_class p)
- static native boolean one_affine_ranking_function_MS_BD_Shape_mpz_class (BD_Shape_mpz_-class p, Generator g)
- static native boolean one_affine_ranking_function_PR_BD_Shape_mpz_class (BD_Shape_mpz_-class p, Generator g)
- static native void all_affine_ranking_functions_MS_BD_Shape_mpz_class (BD_Shape_mpz_class p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_BD_Shape_mpz_class (BD_Shape_mpz_class p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_BD_Shape_mpz_class (BD_Shape_-mpz_class p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_BD_Shape_mpz_class_2 (BD_Shape_mpz_class p_-before, BD_Shape_mpz_class p_after)
- static native boolean termination_test_PR_BD_Shape_mpz_class_2 (BD_Shape_mpz_class p_-before, BD_Shape_mpz_class p_after)
- static native boolean one_affine_ranking_function_MS_BD_Shape_mpz_class_2 (BD_Shape_-mpz_class p_before, BD_Shape_mpz_class p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_BD_Shape_mpz_class_2 (BD_Shape_-mpz_class p_before, BD_Shape_mpz_class p_after, Generator g)
- static native void all_affine_ranking_functions_MS_BD_Shape_mpz_class_2 (BD_Shape_mpz_-class p_before, BD_Shape_mpz_class p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_BD_Shape_mpz_class_2 (BD_Shape_mpz_-class p_before, BD_Shape_mpz_class p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_BD_Shape_mpz_class_2 (BD_Shape_-mpz_class p_before, BD_Shape_mpz_class p_after, Polyhedron ph_decreasing, Polyhedron ph_-bounded)
- static native boolean termination_test_MS_BD_Shape_mpq_class (BD_Shape_mpq_class p)
- static native boolean termination_test_PR_BD_Shape_mpq_class (BD_Shape_mpq_class p)
- static native boolean one_affine_ranking_function_MS_BD_Shape_mpq_class (BD_Shape_mpq_-class p, Generator g)
- static native boolean one_affine_ranking_function_PR_BD_Shape_mpq_class (BD_Shape_mpq_-class p, Generator g)
- static native void all_affine_ranking_functions_MS_BD_Shape_mpq_class (BD_Shape_mpq_class p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_BD_Shape_mpq_class (BD_Shape_mpq_class p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_BD_Shape_mpq_class (BD_Shape_-mpq_class p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_BD_Shape_mpq_class_2 (BD_Shape_mpq_class p_-before, BD_Shape_mpq_class p_after)
- static native boolean termination_test_PR_BD_Shape_mpq_class_2 (BD_Shape_mpq_class p_-before, BD_Shape_mpq_class p_after)
- static native boolean one_affine_ranking_function_MS_BD_Shape_mpq_class_2 (BD_Shape_-mpq_class p_before, BD_Shape_mpq_class p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_BD_Shape_mpq_class_2 (BD_Shape_-mpq_class p_before, BD_Shape_mpq_class p_after, Generator g)

- static native void all_affine_ranking_functions_MS_BD_Shape_mpq_class_2 (BD_Shape_mpq_class p_before, BD_Shape_mpq_class p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_BD_Shape_mpq_class_2 (BD_Shape_mpq_class p_before, BD_Shape_mpq_class p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_BD_Shape_mpq_class_2 (BD_Shape_mpq_class p_before, BD_Shape_mpq_class p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Octagonal_Shape_int8_t (Octagonal_Shape_int8_t p)
- static native boolean termination_test_PR_Octagonal_Shape_int8_t (Octagonal_Shape_int8_t p)
- static native boolean one_affine_ranking_function_MS_Octagonal_Shape_int8_t (Octagonal_Shape_int8_t p, Generator g)
- static native boolean one_affine_ranking_function_PR_Octagonal_Shape_int8_t (Octagonal_Shape_int8_t p, Generator g)
- static native void all_affine_ranking_functions_MS_Octagonal_Shape_int8_t (Octagonal_Shape_int8_t p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Octagonal_Shape_int8_t (Octagonal_Shape_int8_t p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Octagonal_Shape_int8_t (Octagonal_Shape_int8_t p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Octagonal_Shape_int8_t_2 (Octagonal_Shape_int8_t p_before, Octagonal_Shape_int8_t p_after)
- static native boolean termination_test_PR_Octagonal_Shape_int8_t_2 (Octagonal_Shape_int8_t p_before, Octagonal_Shape_int8_t p_after)
- static native boolean one_affine_ranking_function_MS_Octagonal_Shape_int8_t_2 (Octagonal_Shape_int8_t p_before, Octagonal_Shape_int8_t p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Octagonal_Shape_int8_t_2 (Octagonal_Shape_int8_t p_before, Octagonal_Shape_int8_t p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Octagonal_Shape_int8_t_2 (Octagonal_Shape_int8_t p_before, Octagonal_Shape_int8_t p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Octagonal_Shape_int8_t_2 (Octagonal_Shape_int8_t p_before, Octagonal_Shape_int8_t p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Octagonal_Shape_int8_t_2 (Octagonal_Shape_int8_t p_before, Octagonal_Shape_int8_t p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Octagonal_Shape_int16_t (Octagonal_Shape_int16_t p)
- static native boolean termination_test_PR_Octagonal_Shape_int16_t (Octagonal_Shape_int16_t p)
- static native boolean one_affine_ranking_function_MS_Octagonal_Shape_int16_t (Octagonal_Shape_int16_t p, Generator g)
- static native boolean one_affine_ranking_function_PR_Octagonal_Shape_int16_t (Octagonal_Shape_int16_t p, Generator g)
- static native void all_affine_ranking_functions_MS_Octagonal_Shape_int16_t (Octagonal_Shape_int16_t p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Octagonal_Shape_int16_t (Octagonal_Shape_int16_t p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Octagonal_Shape_int16_t (Octagonal_Shape_int16_t p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Octagonal_Shape_int16_t_2 (Octagonal_Shape_int16_t p_before, Octagonal_Shape_int16_t p_after)
- static native boolean termination_test_PR_Octagonal_Shape_int16_t_2 (Octagonal_Shape_int16_t p_before, Octagonal_Shape_int16_t p_after)
- static native boolean one_affine_ranking_function_MS_Octagonal_Shape_int16_t_2 (Octagonal_Shape_int16_t p_before, Octagonal_Shape_int16_t p_after, Generator g)

- static native boolean one_affine_ranking_function_PR_Octagonal_Shape_int16_t_2 (Octagonal_-Shape_int16_t p_before, Octagonal_Shape_int16_t p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Octagonal_Shape_int16_t_2 (Octagonal_-Shape_int16_t p_before, Octagonal_Shape_int16_t p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Octagonal_Shape_int16_t_2 (Octagonal_-Shape_int16_t p_before, Octagonal_Shape_int16_t p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Octagonal_Shape_int16_t_2 (Octagonal_Shape_int16_t p_before, Octagonal_Shape_int16_t p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Octagonal_Shape_int32_t (Octagonal_Shape_int32_t p)
- static native boolean termination_test_PR_Octagonal_Shape_int32_t (Octagonal_Shape_int32_t p)
- static native boolean one_affine_ranking_function_MS_Octagonal_Shape_int32_t (Octagonal_-Shape_int32_t p, Generator g)
- static native boolean one_affine_ranking_function_PR_Octagonal_Shape_int32_t (Octagonal_-Shape_int32_t p, Generator g)
- static native void all_affine_ranking_functions_MS_Octagonal_Shape_int32_t (Octagonal_Shape_-int32_t p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Octagonal_Shape_int32_t (Octagonal_Shape_-int32_t p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Octagonal_Shape_int32_t (Octagonal_-Shape_int32_t p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Octagonal_Shape_int32_t_2 (Octagonal_Shape_int32_t p_before, Octagonal_Shape_int32_t p_after)
- static native boolean termination_test_PR_Octagonal_Shape_int32_t_2 (Octagonal_Shape_int32_t p_before, Octagonal_Shape_int32_t p_after)
- static native boolean one_affine_ranking_function_MS_Octagonal_Shape_int32_t_2 (Octagonal_-Shape_int32_t p_before, Octagonal_Shape_int32_t p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Octagonal_Shape_int32_t_2 (Octagonal_-Shape_int32_t p_before, Octagonal_Shape_int32_t p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Octagonal_Shape_int32_t_2 (Octagonal_-Shape_int32_t p_before, Octagonal_Shape_int32_t p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Octagonal_Shape_int32_t_2 (Octagonal_-Shape_int32_t p_before, Octagonal_Shape_int32_t p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Octagonal_Shape_int32_t_2 (Octagonal_Shape_int32_t p_before, Octagonal_Shape_int32_t p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Octagonal_Shape_int64_t (Octagonal_Shape_int64_t p)
- static native boolean termination_test_PR_Octagonal_Shape_int64_t (Octagonal_Shape_int64_t p)
- static native boolean one_affine_ranking_function_MS_Octagonal_Shape_int64_t (Octagonal_-Shape_int64_t p, Generator g)
- static native boolean one_affine_ranking_function_PR_Octagonal_Shape_int64_t (Octagonal_-Shape_int64_t p, Generator g)
- static native void all_affine_ranking_functions_MS_Octagonal_Shape_int64_t (Octagonal_Shape_-int64_t p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Octagonal_Shape_int64_t (Octagonal_Shape_-int64_t p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Octagonal_Shape_int64_t (Octagonal_-Shape_int64_t p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Octagonal_Shape_int64_t_2 (Octagonal_Shape_int64_t p_before, Octagonal_Shape_int64_t p_after)
- static native boolean termination_test_PR_Octagonal_Shape_int64_t_2 (Octagonal_Shape_int64_t p_before, Octagonal_Shape_int64_t p_after)

- static native boolean one_affine_ranking_function_MS_Octagonal_Shape_int64_t_2 (Octagonal_Shape_int64_t p_before, Octagonal_Shape_int64_t p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Octagonal_Shape_int64_t_2 (Octagonal_Shape_int64_t p_before, Octagonal_Shape_int64_t p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Octagonal_Shape_int64_t_2 (Octagonal_Shape_int64_t p_before, Octagonal_Shape_int64_t p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Octagonal_Shape_int64_t_2 (Octagonal_Shape_int64_t p_before, Octagonal_Shape_int64_t p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Octagonal_Shape_int64_t_2 (Octagonal_Shape_int64_t p_before, Octagonal_Shape_int64_t p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class p)
- static native boolean termination_test_PR_Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class p)
- static native boolean one_affine_ranking_function_MS_Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class p, Generator g)
- static native boolean one_affine_ranking_function_PR_Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class p, Generator g)
- static native void all_affine_ranking_functions_MS_Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Octagonal_Shape_mpz_class_2 (Octagonal_Shape_mpz_class p_before, Octagonal_Shape_mpz_class p_after)
- static native boolean termination_test_PR_Octagonal_Shape_mpz_class_2 (Octagonal_Shape_mpz_class p_before, Octagonal_Shape_mpz_class p_after)
- static native boolean one_affine_ranking_function_MS_Octagonal_Shape_mpz_class_2 (Octagonal_Shape_mpz_class p_before, Octagonal_Shape_mpz_class p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Octagonal_Shape_mpz_class_2 (Octagonal_Shape_mpz_class p_before, Octagonal_Shape_mpz_class p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Octagonal_Shape_mpz_class_2 (Octagonal_Shape_mpz_class p_before, Octagonal_Shape_mpz_class p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Octagonal_Shape_mpz_class_2 (Octagonal_Shape_mpz_class p_before, Octagonal_Shape_mpz_class p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Octagonal_Shape_mpz_class_2 (Octagonal_Shape_mpz_class p_before, Octagonal_Shape_mpz_class p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class p)
- static native boolean termination_test_PR_Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class p)
- static native boolean one_affine_ranking_function_MS_Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class p, Generator g)
- static native boolean one_affine_ranking_function_PR_Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class p, Generator g)
- static native void all_affine_ranking_functions_MS_Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class p, Polyhedron ph)

- static native void all_affine_quasi_ranking_functions_MS_Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Octagonal_Shape_mpq_class_2 (Octagonal_Shape_mpq_class p_before, Octagonal_Shape_mpq_class p_after)
- static native boolean termination_test_PR_Octagonal_Shape_mpq_class_2 (Octagonal_Shape_mpq_class p_before, Octagonal_Shape_mpq_class p_after)
- static native boolean one_affine_ranking_function_MS_Octagonal_Shape_mpq_class_2 (Octagonal_Shape_mpq_class p_before, Octagonal_Shape_mpq_class p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Octagonal_Shape_mpq_class_2 (Octagonal_Shape_mpq_class p_before, Octagonal_Shape_mpq_class p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Octagonal_Shape_mpq_class_2 (Octagonal_Shape_mpq_class p_before, Octagonal_Shape_mpq_class p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Octagonal_Shape_mpq_class_2 (Octagonal_Shape_mpq_class p_before, Octagonal_Shape_mpq_class p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Octagonal_Shape_mpq_class_2 (Octagonal_Shape_mpq_class p_before, Octagonal_Shape_mpq_class p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_C_Polyhedron (C_Polyhedron p)
- static native boolean termination_test_PR_C_Polyhedron (C_Polyhedron p)
- static native boolean termination_test_MS_NNC_Polyhedron (NNC_Polyhedron p)
- static native boolean termination_test_PR_NNC_Polyhedron (NNC_Polyhedron p)
- static native boolean one_affine_ranking_function_MS_C_Polyhedron (C_Polyhedron p, Generator g)
- static native boolean one_affine_ranking_function_PR_C_Polyhedron (C_Polyhedron p, Generator g)
- static native boolean one_affine_ranking_function_MS_NNC_Polyhedron (NNC_Polyhedron p, Generator g)
- static native boolean one_affine_ranking_function_PR_NNC_Polyhedron (NNC_Polyhedron p, Generator g)
- static native void all_affine_ranking_functions_MS_C_Polyhedron (C_Polyhedron p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_C_Polyhedron (C_Polyhedron p, Polyhedron ph)
- static native void all_affine_ranking_functions_MS_NNC_Polyhedron (NNC_Polyhedron p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_NNC_Polyhedron (NNC_Polyhedron p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_C_Polyhedron (C_Polyhedron p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native void all_affine_quasi_ranking_functions_MS_NNC_Polyhedron (NNC_Polyhedron p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_C_Polyhedron_2 (C_Polyhedron p_before, C_Polyhedron p_after)
- static native boolean termination_test_PR_C_Polyhedron_2 (C_Polyhedron p_before, C_Polyhedron p_after)
- static native boolean termination_test_MS_NNC_Polyhedron_2 (NNC_Polyhedron p_before, NNC_Polyhedron p_after)
- static native boolean termination_test_PR_NNC_Polyhedron_2 (NNC_Polyhedron p_before, NNC_Polyhedron p_after)
- static native boolean one_affine_ranking_function_MS_C_Polyhedron_2 (C_Polyhedron p_before, C_Polyhedron p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_C_Polyhedron_2 (C_Polyhedron p_before, C_Polyhedron p_after, Generator g)

- static native boolean one_affine_ranking_function_MS_NNC_Polyhedron_2 (NNC_Polyhedron p_-before, NNC_Polyhedron p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_NNC_Polyhedron_2 (NNC_Polyhedron p_-before, NNC_Polyhedron p_after, Generator g)
- static native void all_affine_ranking_functions_MS_C_Polyhedron_2 (C_Polyhedron p_before, C_-Polyhedron p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_C_Polyhedron_2 (C_Polyhedron p_before, C_-Polyhedron p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_MS_NNC_Polyhedron_2 (NNC_Polyhedron p_-before, NNC_Polyhedron p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_NNC_Polyhedron_2 (NNC_Polyhedron p_-before, NNC_Polyhedron p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_C_Polyhedron_2 (C_Polyhedron p_-before, C_Polyhedron p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native void all_affine_quasi_ranking_functions_MS_NNC_Polyhedron_2 (NNC_Polyhedron p_before, NNC_Polyhedron p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Grid (Grid p)
- static native boolean termination_test_PR_Grid (Grid p)
- static native boolean one_affine_ranking_function_MS_Grid (Grid p, Generator g)
- static native boolean one_affine_ranking_function_PR_Grid (Grid p, Generator g)
- static native void all_affine_ranking_functions_MS_Grid (Grid p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Grid (Grid p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Grid (Grid p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Grid_2 (Grid p_before, Grid p_after)
- static native boolean termination_test_PR_Grid_2 (Grid p_before, Grid p_after)
- static native boolean one_affine_ranking_function_MS_Grid_2 (Grid p_before, Grid p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Grid_2 (Grid p_before, Grid p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Grid_2 (Grid p_before, Grid p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Grid_2 (Grid p_before, Grid p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Grid_2 (Grid p_before, Grid p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Float_Box (Float_Box p)
- static native boolean termination_test_PR_Float_Box (Float_Box p)
- static native boolean one_affine_ranking_function_MS_Float_Box (Float_Box p, Generator g)
- static native boolean one_affine_ranking_function_PR_Float_Box (Float_Box p, Generator g)
- static native void all_affine_ranking_functions_MS_Float_Box (Float_Box p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Float_Box (Float_Box p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Float_Box (Float_Box p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Float_Box_2 (Float_Box p_before, Float_Box p_after)
- static native boolean termination_test_PR_Float_Box_2 (Float_Box p_before, Float_Box p_after)
- static native boolean one_affine_ranking_function_MS_Float_Box_2 (Float_Box p_before, Float_-Box p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Float_Box_2 (Float_Box p_before, Float_-Box p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Float_Box_2 (Float_Box p_before, Float_Box p_after, Polyhedron ph)

- static native void all_affine_ranking_functions_PR_Float_Box_2 (Float_Box p_before, Float_Box p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Float_Box_2 (Float_Box p_before, Float_Box p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_BD_Shape_float (BD_Shape_float p)
- static native boolean termination_test_PR_BD_Shape_float (BD_Shape_float p)
- static native boolean one_affine_ranking_function_MS_BD_Shape_float (BD_Shape_float p, Generator g)
- static native boolean one_affine_ranking_function_PR_BD_Shape_float (BD_Shape_float p, Generator g)
- static native void all_affine_ranking_functions_MS_BD_Shape_float (BD_Shape_float p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_BD_Shape_float (BD_Shape_float p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_BD_Shape_float (BD_Shape_float p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_BD_Shape_float_2 (BD_Shape_float p_before, BD_Shape_float p_after)
- static native boolean termination_test_PR_BD_Shape_float_2 (BD_Shape_float p_before, BD_Shape_float p_after)
- static native boolean one_affine_ranking_function_MS_BD_Shape_float_2 (BD_Shape_float p_before, BD_Shape_float p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_BD_Shape_float_2 (BD_Shape_float p_before, BD_Shape_float p_after, Generator g)
- static native void all_affine_ranking_functions_MS_BD_Shape_float_2 (BD_Shape_float p_before, BD_Shape_float p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_BD_Shape_float_2 (BD_Shape_float p_before, BD_Shape_float p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_BD_Shape_float_2 (BD_Shape_float p_before, BD_Shape_float p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Octagonal_Shape_float (Octagonal_Shape_float p)
- static native boolean termination_test_PR_Octagonal_Shape_float (Octagonal_Shape_float p)
- static native boolean one_affine_ranking_function_MS_Octagonal_Shape_float (Octagonal_Shape_float p, Generator g)
- static native boolean one_affine_ranking_function_PR_Octagonal_Shape_float (Octagonal_Shape_float p, Generator g)
- static native void all_affine_ranking_functions_MS_Octagonal_Shape_float (Octagonal_Shape_float p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Octagonal_Shape_float (Octagonal_Shape_float p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Octagonal_Shape_float (Octagonal_Shape_float p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Octagonal_Shape_float_2 (Octagonal_Shape_float p_before, Octagonal_Shape_float p_after)
- static native boolean termination_test_PR_Octagonal_Shape_float_2 (Octagonal_Shape_float p_before, Octagonal_Shape_float p_after)
- static native boolean one_affine_ranking_function_MS_Octagonal_Shape_float_2 (Octagonal_Shape_float p_before, Octagonal_Shape_float p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Octagonal_Shape_float_2 (Octagonal_Shape_float p_before, Octagonal_Shape_float p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Octagonal_Shape_float_2 (Octagonal_Shape_float p_before, Octagonal_Shape_float p_after, Polyhedron ph)

- static native void all_affine_ranking_functions_PR_Octagonal_Shape_float_2 (Octagonal_Shape_-float p_before, Octagonal_Shape_float p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Octagonal_Shape_float_2 (Octagonal_-Shape_float p_before, Octagonal_Shape_float p_after, Polyhedron ph_decreasing, Polyhedron ph_-bounded)
- static native boolean termination_test_MS_Double_Box (Double_Box p)
- static native boolean termination_test_PR_Double_Box (Double_Box p)
- static native boolean one_affine_ranking_function_MS_Double_Box (Double_Box p, Generator g)
- static native boolean one_affine_ranking_function_PR_Double_Box (Double_Box p, Generator g)
- static native void all_affine_ranking_functions_MS_Double_Box (Double_Box p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Double_Box (Double_Box p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Double_Box (Double_Box p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Double_Box_2 (Double_Box p_before, Double_Box p_-after)
- static native boolean termination_test_PR_Double_Box_2 (Double_Box p_before, Double_Box p_-after)
- static native boolean one_affine_ranking_function_MS_Double_Box_2 (Double_Box p_before, Double_Box p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Double_Box_2 (Double_Box p_before, Double_Box p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Double_Box_2 (Double_Box p_before, Double_Box p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Double_Box_2 (Double_Box p_before, Double_Box p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Double_Box_2 (Double_Box p_before, Double_Box p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_BD_Shape_double (BD_Shape_double p)
- static native boolean termination_test_PR_BD_Shape_double (BD_Shape_double p)
- static native boolean one_affine_ranking_function_MS_BD_Shape_double (BD_Shape_double p, Generator g)
- static native boolean one_affine_ranking_function_PR_BD_Shape_double (BD_Shape_double p, Generator g)
- static native void all_affine_ranking_functions_MS_BD_Shape_double (BD_Shape_double p, Poly-hedron ph)
- static native void all_affine_ranking_functions_PR_BD_Shape_double (BD_Shape_double p, Poly-hedron ph)
- static native void all_affine_quasi_ranking_functions_MS_BD_Shape_double (BD_Shape_double p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_BD_Shape_double_2 (BD_Shape_double p_before, BD_Shape_double p_after)
- static native boolean termination_test_PR_BD_Shape_double_2 (BD_Shape_double p_before, BD_Shape_double p_after)
- static native boolean one_affine_ranking_function_MS_BD_Shape_double_2 (BD_Shape_double p_before, BD_Shape_double p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_BD_Shape_double_2 (BD_Shape_double p_before, BD_Shape_double p_after, Generator g)
- static native void all_affine_ranking_functions_MS_BD_Shape_double_2 (BD_Shape_double p_-before, BD_Shape_double p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_BD_Shape_double_2 (BD_Shape_double p_-before, BD_Shape_double p_after, Polyhedron ph)

- static native void all_affine_quasi_ranking_functions_MS_BD_Shape_double_2 (BD_Shape_double p_before, BD_Shape_double p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Octagonal_Shape_double (Octagonal_Shape_double p)
- static native boolean termination_test_PR_Octagonal_Shape_double (Octagonal_Shape_double p)
- static native boolean one_affine_ranking_function_MS_Octagonal_Shape_double (Octagonal_Shape_double p, Generator g)
- static native boolean one_affine_ranking_function_PR_Octagonal_Shape_double (Octagonal_Shape_double p, Generator g)
- static native void all_affine_ranking_functions_MS_Octagonal_Shape_double (Octagonal_Shape_double p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Octagonal_Shape_double (Octagonal_Shape_double p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Octagonal_Shape_double (Octagonal_Shape_double p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Octagonal_Shape_double_2 (Octagonal_Shape_double p_before, Octagonal_Shape_double p_after)
- static native boolean termination_test_PR_Octagonal_Shape_double_2 (Octagonal_Shape_double p_before, Octagonal_Shape_double p_after)
- static native boolean one_affine_ranking_function_MS_Octagonal_Shape_double_2 (Octagonal_Shape_double p_before, Octagonal_Shape_double p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Octagonal_Shape_double_2 (Octagonal_Shape_double p_before, Octagonal_Shape_double p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Octagonal_Shape_double_2 (Octagonal_Shape_double p_before, Octagonal_Shape_double p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Octagonal_Shape_double_2 (Octagonal_Shape_double p_before, Octagonal_Shape_double p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Octagonal_Shape_double_2 (Octagonal_Shape_double p_before, Octagonal_Shape_double p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Long_Double_Box (Long_Double_Box p)
- static native boolean termination_test_PR_Long_Double_Box (Long_Double_Box p)
- static native boolean one_affine_ranking_function_MS_Long_Double_Box (Long_Double_Box p, Generator g)
- static native boolean one_affine_ranking_function_PR_Long_Double_Box (Long_Double_Box p, Generator g)
- static native void all_affine_ranking_functions_MS_Long_Double_Box (Long_Double_Box p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Long_Double_Box (Long_Double_Box p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Long_Double_Box (Long_Double_Box p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Long_Double_Box_2 (Long_Double_Box p_before, Long_Double_Box p_after)
- static native boolean termination_test_PR_Long_Double_Box_2 (Long_Double_Box p_before, Long_Double_Box p_after)
- static native boolean one_affine_ranking_function_MS_Long_Double_Box_2 (Long_Double_Box p_before, Long_Double_Box p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_Long_Double_Box_2 (Long_Double_Box p_before, Long_Double_Box p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Long_Double_Box_2 (Long_Double_Box p_before, Long_Double_Box p_after, Polyhedron ph)

- static native void all_affine_ranking_functions_PR_Long_Double_Box_2 (Long_Double_Box p_-before, Long_Double_Box p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Long_Double_Box_2 (Long_Double_-Box p_before, Long_Double_Box p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_BD_Shape_long_double (BD_Shape_long_double p)
- static native boolean termination_test_PR_BD_Shape_long_double (BD_Shape_long_double p)
- static native boolean one_affine_ranking_function_MS_BD_Shape_long_double (BD_Shape_-long_double p, Generator g)
- static native boolean one_affine_ranking_function_PR_BD_Shape_long_double (BD_Shape_long_-double p, Generator g)
- static native void all_affine_ranking_functions_MS_BD_Shape_long_double (BD_Shape_long_-double p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_BD_Shape_long_double (BD_Shape_long_-double p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_BD_Shape_long_double (BD_Shape_-long_double p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_BD_Shape_long_double_2 (BD_Shape_long_double p_-before, BD_Shape_long_double p_after)
- static native boolean termination_test_PR_BD_Shape_long_double_2 (BD_Shape_long_double p_-before, BD_Shape_long_double p_after)
- static native boolean one_affine_ranking_function_MS_BD_Shape_long_double_2 (BD_Shape_-long_double p_before, BD_Shape_long_double p_after, Generator g)
- static native boolean one_affine_ranking_function_PR_BD_Shape_long_double_2 (BD_Shape_-long_double p_before, BD_Shape_long_double p_after, Generator g)
- static native void all_affine_ranking_functions_MS_BD_Shape_long_double_2 (BD_Shape_long_-double p_before, BD_Shape_long_double p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_BD_Shape_long_double_2 (BD_Shape_long_-double p_before, BD_Shape_long_double p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_BD_Shape_long_double_2 (BD_Shape_-long_double p_before, BD_Shape_long_double p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Octagonal_Shape_long_double (Octagonal_Shape_-long_double p)
- static native boolean termination_test_PR_Octagonal_Shape_long_double (Octagonal_Shape_-long_double p)
- static native boolean one_affine_ranking_function_MS_Octagonal_Shape_long_double (Octagonal_Shape_long_double p, Generator g)
- static native boolean one_affine_ranking_function_PR_Octagonal_Shape_long_double (Octagonal_Shape_long_double p, Generator g)
- static native void all_affine_ranking_functions_MS_Octagonal_Shape_long_double (Octagonal_-Shape_long_double p, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Octagonal_Shape_long_double (Octagonal_-Shape_long_double p, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Octagonal_Shape_long_double (Octagonal_Shape_long_double p, Polyhedron ph_decreasing, Polyhedron ph_bounded)
- static native boolean termination_test_MS_Octagonal_Shape_long_double_2 (Octagonal_Shape_-long_double p_before, Octagonal_Shape_long_double p_after)
- static native boolean termination_test_PR_Octagonal_Shape_long_double_2 (Octagonal_Shape_-long_double p_before, Octagonal_Shape_long_double p_after)
- static native boolean one_affine_ranking_function_MS_Octagonal_Shape_long_double_2 (Octagonal_Shape_long_double p_before, Octagonal_Shape_long_double p_after, Generator g)

- static native boolean one_affine_ranking_function_PR_Octagonal_Shape_long_double_2 (Octagonal_Shape_long_double p_before, Octagonal_Shape_long_double p_after, Generator g)
- static native void all_affine_ranking_functions_MS_Octagonal_Shape_long_double_2 (Octagonal_Shape_long_double p_before, Octagonal_Shape_long_double p_after, Polyhedron ph)
- static native void all_affine_ranking_functions_PR_Octagonal_Shape_long_double_2 (Octagonal_Shape_long_double p_before, Octagonal_Shape_long_double p_after, Polyhedron ph)
- static native void all_affine_quasi_ranking_functions_MS_Octagonal_Shape_long_double_2 (Octagonal_Shape_long_double p_before, Octagonal_Shape_long_double p_after, Polyhedron ph_decreasing, Polyhedron ph_bounded)

11.143.1 Detailed Description

Definition at line 25 of file Termination.java.

11.143.2 Member Function Documentation

11.143.2.1 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_BD_Shape_double (BD_Shape_double *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.2 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_BD_Shape_double_2 (BD_Shape_double *p_before*, BD_Shape_double *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.3 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_BD_Shape_float (BD_Shape_float *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.4 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_BD_Shape_float_2 (BD_Shape_float *p_before*, BD_Shape_float *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.5 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_BD_Shape_int16_t (BD_Shape_int16_t *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.6 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_BD_Shape_int16_t_2 (BD_Shape_int16_t *p_before*, BD_Shape_int16_t *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.7 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_BD_Shape_int32_t (BD_Shape_int32_t *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.8 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_BD_Shape_int32_t_2 (BD_Shape_int32_t *p_before*, BD_Shape_int32_t *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.9 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_BD_Shape_int64_t (BD_Shape_int64_t *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.10 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_BD_Shape_int64_t_2 (BD_Shape_int64_t *p_before*, BD_Shape_int64_t *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.11 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_BD_Shape_int8_t (BD_Shape_int8_t *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.12 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_BD_Shape_int8_t_2 (BD_Shape_int8_t *p_before*, BD_Shape_int8_t *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.13 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_BD_Shape_long_double (BD_Shape_long_double *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.14 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_BD_Shape_long_double_2 (BD_Shape_long_double *p_before*, BD_Shape_long_double *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.15 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_BD_Shape_mpq_class (BD_Shape_mpq_class *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.16 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_BD_Shape_mpq_class_2 (BD_Shape_mpq_class *p_before*, BD_Shape_mpq_class *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.17 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_BD_Shape_mpz_class (BD_Shape_mpz_class *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.18 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_BD_Shape_mpz_class_2 (BD_Shape_mpz_class *p_before*, BD_Shape_mpz_class *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.19 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_C_Polyhedron (C_Polyhedron *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.20 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_C_Polyhedron_2 (C_Polyhedron *p_before*, C_Polyhedron *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.21 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Double_Box (Double_Box *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.22 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Double_Box_2 (Double_Box *p_before*, Double_Box *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.23 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Float_Box (Float_Box *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.24 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Float_Box_2 (Float_Box *p_before*, Float_Box *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.25 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Grid (Grid *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.26 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Grid_2 (Grid *p_before*, Grid *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.27 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Int16_Box (Int16_Box *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.28 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Int16_Box_2 (Int16_Box *p_before*, Int16_Box *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.29 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Int32_Box (Int32_Box *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.30 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Int32_Box_2 (Int32_Box *p_before*, Int32_Box *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.31 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Int64_Box (Int64_Box *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.32 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Int64_Box_2 (Int64_Box *p_before*, Int64_Box *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.33 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Int8_Box (Int8_Box *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.34 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Int8_Box_2 (Int8_Box *p_before*, Int8_Box *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.35 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Long_Double_Box (Long_Double_Box *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.36 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Long_Double_Box_2 (Long_Double_Box *p_before*, Long_Double_Box *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.37 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_NNC_Polyhedron (NNC_Polyhedron *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.38 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_NNC_Polyhedron_2 (NNC_Polyhedron *p_before*, NNC_Polyhedron *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.39 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Octagonal_Shape_double (Octagonal_Shape_double *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.40 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Octagonal_Shape_double_2 (Octagonal_Shape_double *p_before*, Octagonal_Shape_double *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.41 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Octagonal_Shape_float (Octagonal_Shape_float *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.42 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Octagonal_Shape_float_2 (Octagonal_Shape_float *p_before*, Octagonal_Shape_float *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.43 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Octagonal_Shape_int16_t (Octagonal_Shape_int16_t *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.44 static native void parma_polyhedra_library::Termination::all_affine_quasi_-ranking_functions_MS_Octagonal_Shape_int16_t_2 (Octagonal_Shape_int16_t *p_before*, Octagonal_Shape_int16_t *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.45 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_-functions_MS_Octagonal_Shape_int32_t (Octagonal_Shape_int32_t *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.46 static native void parma_polyhedra_library::Termination::all_affine_quasi_-ranking_functions_MS_Octagonal_Shape_int32_t_2 (Octagonal_Shape_int32_t *p_before*, Octagonal_Shape_int32_t *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.47 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_-functions_MS_Octagonal_Shape_int64_t (Octagonal_Shape_int64_t *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.48 static native void parma_polyhedra_library::Termination::all_affine_quasi_-ranking_functions_MS_Octagonal_Shape_int64_t_2 (Octagonal_Shape_int64_t *p_before*, Octagonal_Shape_int64_t *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.49 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_-functions_MS_Octagonal_Shape_int8_t (Octagonal_Shape_int8_t *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.50 static native void parma_polyhedra_library::Termination::all_affine_quasi_-ranking_functions_MS_Octagonal_Shape_int8_t_2 (Octagonal_Shape_int8_t *p_before*, Octagonal_Shape_int8_t *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.51 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Octagonal_Shape_long_double (Octagonal_Shape_long_double *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.52 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Octagonal_Shape_long_double_2 (Octagonal_Shape_long_double *p_before*, Octagonal_Shape_long_double *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.53 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.54 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Octagonal_Shape_mpq_class_2 (Octagonal_Shape_mpq_class *p_before*, Octagonal_Shape_mpq_class *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.55 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.56 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Octagonal_Shape_mpz_class_2 (Octagonal_Shape_mpz_class *p_before*, Octagonal_Shape_mpz_class *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.57 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Rational_Box (Rational_Box *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.58 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Rational_Box_2 (Rational_Box *p_before*, Rational_Box *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.59 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Uint16_Box (Uint16_Box *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.60 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Uint16_Box_2 (Uint16_Box *p_before*, Uint16_Box *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.61 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Uint32_Box (Uint32_Box *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.62 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Uint32_Box_2 (Uint32_Box *p_before*, Uint32_Box *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.63 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Uint64_Box (Uint64_Box *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.64 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Uint64_Box_2 (Uint64_Box *p_before*, Uint64_Box *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.65 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Uint8_Box (Uint8_Box *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.66 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Uint8_Box_2 (Uint8_Box *p_before*, Uint8_Box *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.67 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Z_Box (Z_Box *p*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.68 static native void parma_polyhedra_library::Termination::all_affine_quasi_ranking_functions_MS_Z_Box_2 (Z_Box *p_before*, Z_Box *p_after*, Polyhedron *ph_decreasing*, Polyhedron *ph_bounded*) [static]

11.143.2.69 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_BD_Shape_double (BD_Shape_double *p*, Polyhedron *ph*) [static]

11.143.2.70 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_BD_Shape_double_2 (BD_Shape_double *p_before*, BD_Shape_double *p_after*, Polyhedron *ph*) [static]

11.143.2.71 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_BD_Shape_float (BD_Shape_float *p*, Polyhedron *ph*) [static]

11.143.2.72 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_BD_Shape_float_2 (BD_Shape_float *p_before*, BD_Shape_float *p_after*, Polyhedron *ph*) [static]

11.143.2.73 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_BD_Shape_int16_t (BD_Shape_int16_t *p*, Polyhedron *ph*) [static]

11.143.2.74 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_BD_Shape_int16_t_2 (BD_Shape_int16_t *p_before*, BD_Shape_int16_t *p_after*, Polyhedron *ph*) [static]

11.143.2.75 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_BD_Shape_int32_t (BD_Shape_int32_t *p*, Polyhedron *ph*) [static]

11.143.2.76 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_BD_Shape_int32_t_2 (BD_Shape_int32_t *p_before*, BD_Shape_int32_t *p_after*, Polyhedron *ph*) [static]

11.143.2.77 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_BD_Shape_int64_t (BD_Shape_int64_t *p*, Polyhedron *ph*) [static]

11.143.2.78 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_BD_Shape_int64_t_2 (BD_Shape_int64_t *p_before*, BD_Shape_int64_t *p_after*, Polyhedron *ph*) [static]

11.143.2.79 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_BD_Shape_int8_t (BD_Shape_int8_t *p*, Polyhedron *ph*) [static]

11.143.2.80 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_BD_Shape_int8_t_2 (BD_Shape_int8_t *p_before*, BD_Shape_int8_t *p_after*, Polyhedron *ph*) [static]

11.143.2.81 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_BD_Shape_long_double (BD_Shape_long_double *p*, Polyhedron *ph*) [static]

11.143.2.82 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_BD_Shape_long_double_2 (BD_Shape_long_double *p_before*, BD_Shape_long_double *p_after*, Polyhedron *ph*) [static]

11.143.2.83 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_BD_Shape_mpq_class (BD_Shape_mpq_class *p*, Polyhedron *ph*) [static]

11.143.2.84 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_BD_Shape_mpq_class_2 (BD_Shape_mpq_class *p_before*, BD_Shape_mpq_class *p_after*, Polyhedron *ph*) [static]

11.143.2.85 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_BD_Shape_mpz_class (BD_Shape_mpz_class *p*, Polyhedron *ph*) [static]

11.143.2.86 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_BD_Shape_mpz_class_2 (BD_Shape_mpz_class *p_before*, BD_Shape_mpz_class *p_after*, Polyhedron *ph*) [static]

11.143.2.87 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_C_Polyhedron (C_Polyhedron *p*, Polyhedron *ph*) [static]

11.143.2.88 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_C_Polyhedron_2 (C_Polyhedron *p_before*, C_Polyhedron *p_after*, Polyhedron *ph*) [static]

11.143.2.89 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Double_Box (Double_Box *p*, Polyhedron *ph*) [static]

11.143.2.90 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Double_Box_2 (Double_Box *p_before*, Double_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.91 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Float_Box (Float_Box *p*, Polyhedron *ph*) [static]

11.143.2.92 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Float_Box_2 (Float_Box *p_before*, Float_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.93 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Grid (Grid *p*, Polyhedron *ph*) [static]

11.143.2.94 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Grid_2 (Grid *p_before*, Grid *p_after*, Polyhedron *ph*) [static]

11.143.2.95 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Int16_Box (Int16_Box *p*, Polyhedron *ph*) [static]

11.143.2.96 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Int16_Box_2 (Int16_Box *p_before*, Int16_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.97 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Int32_Box (Int32_Box *p*, Polyhedron *ph*) [static]

11.143.2.98 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Int32_Box_2 (Int32_Box *p_before*, Int32_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.99 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Int64_Box (Int64_Box *p*, Polyhedron *ph*) [static]

11.143.2.100 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Int64_Box_2 (Int64_Box *p_before*, Int64_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.101 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Int8_Box (Int8_Box *p*, Polyhedron *ph*) [static]

11.143.2.102 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Int8_Box_2 (Int8_Box *p_before*, Int8_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.103 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Long_Double_Box (Long_Double_Box *p*, Polyhedron *ph*) [static]

11.143.2.104 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Long_Double_Box_2 (Long_Double_Box *p_before*, Long_Double_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.105 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_NNC_Polyhedron (NNC_Polyhedron *p*, Polyhedron *ph*) [static]

11.143.2.106 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_NNC_Polyhedron_2 (NNC_Polyhedron *p_before*, NNC_Polyhedron *p_after*, Polyhedron *ph*) [static]

11.143.2.107 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Octagonal_Shape_double (Octagonal_Shape_double *p*, Polyhedron *ph*) [static]

11.143.2.108 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Octagonal_Shape_double_2 (Octagonal_Shape_double *p_before*, Octagonal_Shape_double *p_after*, Polyhedron *ph*) [static]

11.143.2.109 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Octagonal_Shape_float (Octagonal_Shape_float *p*, Polyhedron *ph*) [static]

11.143.2.110 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Octagonal_Shape_float_2 (Octagonal_Shape_float *p_before*, Octagonal_Shape_float *p_after*, Polyhedron *ph*) [static]

11.143.2.111 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Octagonal_Shape_int16_t (Octagonal_Shape_int16_t *p*, Polyhedron *ph*) [static]

11.143.2.112 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Octagonal_Shape_int16_t_2 (Octagonal_Shape_int16_t *p_before*, Octagonal_Shape_int16_t *p_after*, Polyhedron *ph*) [static]

11.143.2.113 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Octagonal_Shape_int32_t (Octagonal_Shape_int32_t *p*, Polyhedron *ph*) [static]

11.143.2.114 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Octagonal_Shape_int32_t_2 (Octagonal_Shape_int32_t *p_before*, Octagonal_Shape_int32_t *p_after*, Polyhedron *ph*) [static]

11.143.2.115 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Octagonal_Shape_int64_t (Octagonal_Shape_int64_t *p*, Polyhedron *ph*) [static]

11.143.2.116 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Octagonal_Shape_int64_t_2 (Octagonal_Shape_int64_t *p_before*, Octagonal_Shape_int64_t *p_after*, Polyhedron *ph*) [static]

11.143.2.117 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Octagonal_Shape_int8_t (Octagonal_Shape_int8_t *p*, Polyhedron *ph*) [static]

11.143.2.118 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Octagonal_Shape_int8_t_2 (Octagonal_Shape_int8_t *p_before*, Octagonal_Shape_int8_t *p_after*, Polyhedron *ph*) [static]

11.143.2.119 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Octagonal_Shape_long_double (Octagonal_Shape_long_double *p*, Polyhedron *ph*) [static]

11.143.2.120 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Octagonal_Shape_long_double_2 (Octagonal_Shape_long_double *p_before*, Octagonal_Shape_long_double *p_after*, Polyhedron *ph*) [static]

11.143.2.121 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class *p*, Polyhedron *ph*) [static]

11.143.2.122 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Octagonal_Shape_mpq_class_2 (Octagonal_Shape_mpq_class *p_before*, Octagonal_Shape_mpq_class *p_after*, Polyhedron *ph*) [static]

11.143.2.123 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class *p*, Polyhedron *ph*) [static]

11.143.2.124 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Octagonal_Shape_mpz_class_2 (Octagonal_Shape_mpz_class *p_before*, Octagonal_Shape_mpz_class *p_after*, Polyhedron *ph*) [static]

11.143.2.125 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Rational_Box (Rational_Box *p*, Polyhedron *ph*) [static]

11.143.2.126 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Rational_Box_2 (Rational_Box *p_before*, Rational_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.127 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Uint16_Box (Uint16_Box *p*, Polyhedron *ph*) [static]

11.143.2.128 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Uint16_Box_2 (Uint16_Box *p_before*, Uint16_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.129 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Uint32_Box (Uint32_Box *p*, Polyhedron *ph*) [static]

11.143.2.130 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Uint32_Box_2 (Uint32_Box *p_before*, Uint32_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.131 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Uint64_Box (Uint64_Box *p*, Polyhedron *ph*) [static]

11.143.2.132 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Uint64_Box_2 (Uint64_Box *p_before*, Uint64_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.133 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Uint8_Box (Uint8_Box *p*, Polyhedron *ph*) [static]

11.143.2.134 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Uint8_Box_2 (Uint8_Box *p_before*, Uint8_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.135 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Z_Box (Z_Box *p*, Polyhedron *ph*) [static]

11.143.2.136 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_MS_Z_Box_2 (Z_Box *p_before*, Z_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.137 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_BD_Shape_double (BD_Shape_double *p*, Polyhedron *ph*) [static]

11.143.2.138 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_BD_Shape_double_2 (BD_Shape_double *p_before*, BD_Shape_double *p_after*, Polyhedron *ph*) [static]

11.143.2.139 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_BD_Shape_float (BD_Shape_float *p*, Polyhedron *ph*) [static]

11.143.2.140 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_BD_Shape_float_2 (BD_Shape_float *p_before*, BD_Shape_float *p_after*, Polyhedron *ph*) [static]

11.143.2.141 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_BD_Shape_int16_t (BD_Shape_int16_t *p*, Polyhedron *ph*) [static]

11.143.2.142 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_BD_Shape_int16_t_2 (BD_Shape_int16_t *p_before*, BD_Shape_int16_t *p_after*, Polyhedron *ph*) [static]

11.143.2.143 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_BD_Shape_int32_t (BD_Shape_int32_t *p*, Polyhedron *ph*) [static]

11.143.2.144 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_BD_Shape_int32_t_2 (BD_Shape_int32_t *p_before*, BD_Shape_int32_t *p_after*, Polyhedron *ph*) [static]

11.143.2.145 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_BD_Shape_int64_t (BD_Shape_int64_t *p*, Polyhedron *ph*) [static]

11.143.2.146 static native void parma_polyhedra_library::Termination::all_affine_-ranking_functions_PR_BD_Shape_int64_t_2 (BD_Shape_int64_t *p_before*, BD_Shape_int64_t *p_after*, Polyhedron *ph*) [static]

11.143.2.147 static native void parma_polyhedra_library::Termination::all_affine_ranking_-functions_PR_BD_Shape_int8_t (BD_Shape_int8_t *p*, Polyhedron *ph*) [static]

11.143.2.148 static native void parma_polyhedra_library::Termination::all_affine_ranking_-functions_PR_BD_Shape_int8_t_2 (BD_Shape_int8_t *p_before*, BD_Shape_int8_t *p_after*, Polyhedron *ph*) [static]

11.143.2.149 static native void parma_polyhedra_library::Termination::all_affine_ranking_-functions_PR_BD_Shape_long_double (BD_Shape_long_double *p*, Polyhedron *ph*) [static]

11.143.2.150 static native void parma_polyhedra_library::Termination::all_affine_ranking_-functions_PR_BD_Shape_long_double_2 (BD_Shape_long_double *p_before*, BD_Shape_long_double *p_after*, Polyhedron *ph*) [static]

11.143.2.151 static native void parma_polyhedra_library::Termination::all_affine_ranking_-functions_PR_BD_Shape_mpq_class (BD_Shape_mpq_class *p*, Polyhedron *ph*) [static]

11.143.2.152 static native void parma_polyhedra_library::Termination::all_affine_ranking_-functions_PR_BD_Shape_mpq_class_2 (BD_Shape_mpq_class *p_before*, BD_Shape_mpq_class *p_after*, Polyhedron *ph*) [static]

11.143.2.153 static native void parma_polyhedra_library::Termination::all_affine_ranking_-functions_PR_BD_Shape_mpz_class (BD_Shape_mpz_class *p*, Polyhedron *ph*) [static]

11.143.2.154 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_BD_Shape_mpz_class_2 (BD_Shape_mpz_class *p_before*, BD_Shape_mpz_class *p_after*, Polyhedron *ph*) [static]

11.143.2.155 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_C_Polyhedron (C_Polyhedron *p*, Polyhedron *ph*) [static]

11.143.2.156 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_C_Polyhedron_2 (C_Polyhedron *p_before*, C_Polyhedron *p_after*, Polyhedron *ph*) [static]

11.143.2.157 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Double_Box (Double_Box *p*, Polyhedron *ph*) [static]

11.143.2.158 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Double_Box_2 (Double_Box *p_before*, Double_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.159 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Float_Box (Float_Box *p*, Polyhedron *ph*) [static]

11.143.2.160 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Float_Box_2 (Float_Box *p_before*, Float_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.161 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Grid (Grid *p*, Polyhedron *ph*) [static]

11.143.2.162 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Grid_2 (Grid *p_before*, Grid *p_after*, Polyhedron *ph*) [static]

11.143.2.163 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Int16_Box (Int16_Box *p*, Polyhedron *ph*) [static]

11.143.2.164 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Int16_Box_2 (Int16_Box *p_before*, Int16_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.165 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Int32_Box (Int32_Box *p*, Polyhedron *ph*) [static]

11.143.2.166 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Int32_Box_2 (Int32_Box *p_before*, Int32_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.167 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Int64_Box (Int64_Box *p*, Polyhedron *ph*) [static]

11.143.2.168 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Int64_Box_2 (Int64_Box *p_before*, Int64_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.169 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Int8_Box (Int8_Box *p*, Polyhedron *ph*) [static]

11.143.2.170 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Int8_Box_2 (Int8_Box *p_before*, Int8_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.171 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Long_Double_Box (Long_Double_Box *p*, Polyhedron *ph*) [static]

11.143.2.172 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Long_Double_Box_2 (Long_Double_Box *p_before*, Long_Double_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.173 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_NNC_Polyhedron (NNC_Polyhedron *p*, Polyhedron *ph*) [static]

11.143.2.174 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_NNC_Polyhedron_2 (NNC_Polyhedron *p_before*, NNC_Polyhedron *p_after*, Polyhedron *ph*) [static]

11.143.2.175 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Octagonal_Shape_double (Octagonal_Shape_double *p*, Polyhedron *ph*) [static]

11.143.2.176 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Octagonal_Shape_double_2 (Octagonal_Shape_double *p_before*, Octagonal_Shape_double *p_after*, Polyhedron *ph*) [static]

11.143.2.177 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Octagonal_Shape_float (Octagonal_Shape_float *p*, Polyhedron *ph*) [static]

11.143.2.178 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Octagonal_Shape_float_2 (Octagonal_Shape_float *p_before*, Octagonal_Shape_float *p_after*, Polyhedron *ph*) [static]

11.143.2.179 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Octagonal_Shape_int16_t (Octagonal_Shape_int16_t *p*, Polyhedron *ph*) [static]

11.143.2.180 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Octagonal_Shape_int16_t_2 (Octagonal_Shape_int16_t *p_before*, Octagonal_Shape_int16_t *p_after*, Polyhedron *ph*) [static]

11.143.2.181 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Octagonal_Shape_int32_t (Octagonal_Shape_int32_t *p*, Polyhedron *ph*) [static]

11.143.2.182 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Octagonal_Shape_int32_t_2 (Octagonal_Shape_int32_t *p_before*, Octagonal_Shape_int32_t *p_after*, Polyhedron *ph*) [static]

11.143.2.183 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Octagonal_Shape_int64_t (Octagonal_Shape_int64_t *p*, Polyhedron *ph*) [static]

11.143.2.184 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Octagonal_Shape_int64_t_2 (Octagonal_Shape_int64_t *p_before*, Octagonal_Shape_int64_t *p_after*, Polyhedron *ph*) [static]

11.143.2.185 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Octagonal_Shape_int8_t (Octagonal_Shape_int8_t *p*, Polyhedron *ph*) [static]

11.143.2.186 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Octagonal_Shape_int8_t_2 (Octagonal_Shape_int8_t *p_before*, Octagonal_Shape_int8_t *p_after*, Polyhedron *ph*) [static]

11.143.2.187 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Octagonal_Shape_long_double (Octagonal_Shape_long_double *p*, Polyhedron *ph*) [static]

11.143.2.188 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Octagonal_Shape_long_double_2 (Octagonal_Shape_long_double *p_before*, Octagonal_Shape_long_double *p_after*, Polyhedron *ph*) [static]

11.143.2.189 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class *p*, Polyhedron *ph*) [static]

11.143.2.190 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Octagonal_Shape_mpq_class_2 (Octagonal_Shape_mpq_class *p_before*, Octagonal_Shape_mpq_class *p_after*, Polyhedron *ph*) [static]

11.143.2.191 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class *p*, Polyhedron *ph*) [static]

11.143.2.192 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Octagonal_Shape_mpz_class_2 (Octagonal_Shape_mpz_class *p_before*, Octagonal_Shape_mpz_class *p_after*, Polyhedron *ph*) [static]

11.143.2.193 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Rational_Box (Rational_Box *p*, Polyhedron *ph*) [static]

11.143.2.194 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Rational_Box_2 (Rational_Box *p_before*, Rational_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.195 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Uint16_Box (Uint16_Box *p*, Polyhedron *ph*) [static]

11.143.2.196 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Uint16_Box_2 (Uint16_Box *p_before*, Uint16_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.197 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Uint32_Box (Uint32_Box *p*, Polyhedron *ph*) [static]

11.143.2.198 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Uint32_Box_2 (Uint32_Box *p_before*, Uint32_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.199 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Uint64_Box (Uint64_Box *p*, Polyhedron *ph*) [static]

11.143.2.200 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Uint64_Box_2 (Uint64_Box *p_before*, Uint64_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.201 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Uint8_Box (Uint8_Box *p*, Polyhedron *ph*) [static]

11.143.2.202 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Uint8_Box_2 (Uint8_Box *p_before*, Uint8_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.203 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Z_Box (Z_Box *p*, Polyhedron *ph*) [static]

11.143.2.204 static native void parma_polyhedra_library::Termination::all_affine_ranking_functions_PR_Z_Box_2 (Z_Box *p_before*, Z_Box *p_after*, Polyhedron *ph*) [static]

11.143.2.205 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_BD_Shape_double (BD_Shape_double *p*, Generator *g*) [static]

11.143.2.206 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_BD_Shape_double_2 (BD_Shape_double *p_before*, BD_Shape_double *p_after*, Generator *g*) [static]

11.143.2.207 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_BD_Shape_float (BD_Shape_float *p*, Generator *g*) [static]

11.143.2.208 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_BD_Shape_float_2 (BD_Shape_float *p_before*, BD_Shape_float *p_after*, Generator *g*) [static]

11.143.2.209 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_BD_Shape_int16_t (BD_Shape_int16_t *p*, Generator *g*) [static]

11.143.2.210 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_BD_Shape_int16_t_2 (BD_Shape_int16_t *p_before*, BD_Shape_int16_t *p_after*, Generator *g*) [static]

11.143.2.211 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_BD_Shape_int32_t (BD_Shape_int32_t *p*, Generator *g*) [static]

11.143.2.212 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_BD_Shape_int32_t_2 (BD_Shape_int32_t *p_before*, BD_Shape_int32_t *p_after*, Generator *g*) [static]

11.143.2.213 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_BD_Shape_int64_t (BD_Shape_int64_t *p*, Generator *g*) [static]

11.143.2.214 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_BD_Shape_int64_t_2 (BD_Shape_int64_t *p_before*, BD_Shape_int64_t *p_after*, Generator *g*) [static]

11.143.2.215 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_BD_Shape_int8_t (BD_Shape_int8_t *p*, Generator *g*) [static]

11.143.2.216 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_BD_Shape_int8_t_2 (BD_Shape_int8_t *p_before*, BD_Shape_int8_t *p_after*, Generator *g*) [static]

11.143.2.217 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_BD_Shape_long_double (BD_Shape_long_double *p*, Generator *g*) [static]

11.143.2.218 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_BD_Shape_long_double_2 (BD_Shape_long_double *p_before*, BD_Shape_long_double *p_after*, Generator *g*) [static]

11.143.2.219 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_BD_Shape_mpq_class (BD_Shape_mpq_class *p*, Generator *g*) [static]

11.143.2.220 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_BD_Shape_mpq_class_2 (BD_Shape_mpq_class *p_before*, BD_Shape_mpq_class *p_after*, Generator *g*) [static]

11.143.2.221 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_BD_Shape_mpz_class (BD_Shape_mpz_class *p*, Generator *g*) [static]

11.143.2.222 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_BD_Shape_mpz_class_2 (BD_Shape_mpz_class *p_before*, BD_Shape_mpz_class *p_after*, Generator *g*) [static]

11.143.2.223 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_C_Polyhedron (C_Polyhedron *p*, Generator *g*) [static]

11.143.2.224 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_C_Polyhedron_2 (C_Polyhedron *p_before*, C_Polyhedron *p_after*, Generator *g*) [static]

11.143.2.225 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Double_Box (Double_Box *p*, Generator *g*) [static]

11.143.2.226 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Double_Box_2 (Double_Box *p_before*, Double_Box *p_after*, Generator *g*) [static]

11.143.2.227 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Float_Box (Float_Box *p*, Generator *g*) [static]

11.143.2.228 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Float_Box_2 (Float_Box *p_before*, Float_Box *p_after*, Generator *g*) [static]

11.143.2.229 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Grid (Grid *p*, Generator *g*) [static]

11.143.2.230 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Grid_2 (Grid *p_before*, Grid *p_after*, Generator *g*) [static]

11.143.2.231 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Int16_Box (Int16_Box *p*, Generator *g*) [static]

11.143.2.232 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Int16_Box_2 (Int16_Box *p_before*, Int16_Box *p_after*, Generator *g*) [static]

11.143.2.233 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Int32_Box (Int32_Box *p*, Generator *g*) [static]

11.143.2.234 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Int32_Box_2 (Int32_Box *p_before*, Int32_Box *p_after*, Generator *g*) [static]

11.143.2.235 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Int64_Box (Int64_Box *p*, Generator *g*) [static]

11.143.2.236 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Int64_Box_2 (Int64_Box *p_before*, Int64_Box *p_after*, Generator *g*) [static]

11.143.2.237 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Int8_Box (Int8_Box *p*, Generator *g*) [static]

11.143.2.238 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Int8_Box_2 (Int8_Box *p_before*, Int8_Box *p_after*, Generator *g*) [static]

11.143.2.239 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Long_Double_Box (Long_Double_Box *p*, Generator *g*) [static]

11.143.2.240 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Long_Double_Box_2 (Long_Double_Box *p_before*, Long_Double_Box *p_after*, Generator *g*) [static]

11.143.2.241 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_NNC_Polyhedron (NNC_Polyhedron *p*, Generator *g*) [static]

11.143.2.242 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_NNC_Polyhedron_2 (NNC_Polyhedron *p_before*, NNC_Polyhedron *p_after*, Generator *g*) [static]

11.143.2.243 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Octagonal_Shape_double (Octagonal_Shape_double *p*, Generator *g*) [static]

11.143.2.244 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Octagonal_Shape_double_2 (Octagonal_Shape_double *p_before*, Octagonal_Shape_double *p_after*, Generator *g*) [static]

11.143.2.245 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Octagonal_Shape_float (Octagonal_Shape_float *p*, Generator *g*) [static]

11.143.2.246 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Octagonal_Shape_float_2 (Octagonal_Shape_float *p_before*, Octagonal_Shape_float *p_after*, Generator *g*) [static]

11.143.2.247 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Octagonal_Shape_int16_t (Octagonal_Shape_int16_t *p*, Generator *g*) [static]

11.143.2.248 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Octagonal_Shape_int16_t_2 (Octagonal_Shape_int16_t *p_before*, Octagonal_Shape_int16_t *p_after*, Generator *g*) [static]

11.143.2.249 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Octagonal_Shape_int32_t (Octagonal_Shape_int32_t *p*, Generator *g*) [static]

11.143.2.250 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Octagonal_Shape_int32_t_2 (Octagonal_Shape_int32_t *p_before*, Octagonal_Shape_int32_t *p_after*, Generator *g*) [static]

11.143.2.251 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Octagonal_Shape_int64_t (Octagonal_Shape_int64_t *p*, Generator *g*) [static]

11.143.2.252 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Octagonal_Shape_int64_t_2 (Octagonal_Shape_int64_t *p_before*, Octagonal_Shape_int64_t *p_after*, Generator *g*) [static]

11.143.2.253 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Octagonal_Shape_int8_t (Octagonal_Shape_int8_t *p*, Generator *g*) [static]

11.143.2.254 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Octagonal_Shape_int8_t_2 (Octagonal_Shape_int8_t *p_before*, Octagonal_Shape_int8_t *p_after*, Generator *g*) [static]

11.143.2.255 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Octagonal_Shape_long_double (Octagonal_Shape_long_double *p*, Generator *g*) [static]

11.143.2.256 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Octagonal_Shape_long_double_2 (Octagonal_Shape_long_double *p_before*, Octagonal_Shape_long_double *p_after*, Generator *g*) [static]

11.143.2.257 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class *p*, Generator *g*) [static]

11.143.2.258 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Octagonal_Shape_mpq_class_2 (Octagonal_Shape_mpq_class *p_before*, Octagonal_Shape_mpq_class *p_after*, Generator *g*) [static]

11.143.2.259 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class *p*, Generator *g*) [static]

11.143.2.260 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Octagonal_Shape_mpz_class_2 (Octagonal_Shape_mpz_class *p_before*, Octagonal_Shape_mpz_class *p_after*, Generator *g*) [static]

11.143.2.261 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Rational_Box (Rational_Box *p*, Generator *g*) [static]

11.143.2.262 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Rational_Box_2 (Rational_Box *p_before*, Rational_Box *p_after*, Generator *g*) [static]

11.143.2.263 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Uint16_Box (Uint16_Box *p*, Generator *g*) [static]

11.143.2.264 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Uint16_Box_2 (Uint16_Box *p_before*, Uint16_Box *p_after*, Generator *g*) [static]

11.143.2.265 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Uint32_Box (Uint32_Box *p*, Generator *g*) [static]

11.143.2.266 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Uint32_Box_2 (Uint32_Box *p_before*, Uint32_Box *p_after*, Generator *g*) [static]

11.143.2.267 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Uint64_Box (Uint64_Box *p*, Generator *g*) [static]

11.143.2.268 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Uint64_Box_2 (Uint64_Box *p_before*, Uint64_Box *p_after*, Generator *g*) [static]

11.143.2.269 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Uint8_Box (Uint8_Box *p*, Generator *g*) [static]

11.143.2.270 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Uint8_Box_2 (Uint8_Box *p_before*, Uint8_Box *p_after*, Generator *g*) [static]

11.143.2.271 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Z_Box (Z_Box *p*, Generator *g*) [static]

11.143.2.272 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_MS_Z_Box_2 (Z_Box *p_before*, Z_Box *p_after*, Generator *g*) [static]

11.143.2.273 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_BD_Shape_double (BD_Shape_double *p*, Generator *g*) [static]

11.143.2.274 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_BD_Shape_double_2 (BD_Shape_double *p_before*, BD_Shape_double *p_after*, Generator *g*) [static]

11.143.2.275 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_BD_Shape_float (BD_Shape_float *p*, Generator *g*) [static]

11.143.2.276 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_BD_Shape_float_2 (BD_Shape_float *p_before*, BD_Shape_float *p_after*, Generator *g*) [static]

11.143.2.277 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_BD_Shape_int16_t (BD_Shape_int16_t *p*, Generator *g*) [static]

11.143.2.278 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_BD_Shape_int16_t_2 (BD_Shape_int16_t *p_before*, BD_Shape_int16_t *p_after*, Generator *g*) [static]

11.143.2.279 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_BD_Shape_int32_t (BD_Shape_int32_t *p*, Generator *g*) [static]

11.143.2.280 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_BD_Shape_int32_t_2 (BD_Shape_int32_t *p_before*, BD_Shape_int32_t *p_after*, Generator *g*) [static]

11.143.2.281 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_BD_Shape_int64_t (BD_Shape_int64_t *p*, Generator *g*) [static]

11.143.2.282 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_BD_Shape_int64_t_2 (BD_Shape_int64_t *p_before*, BD_Shape_int64_t *p_after*, Generator *g*) [static]

11.143.2.283 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_BD_Shape_int8_t (BD_Shape_int8_t *p*, Generator *g*) [static]

11.143.2.284 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_BD_Shape_int8_t_2 (BD_Shape_int8_t *p_before*, BD_Shape_int8_t *p_after*, Generator *g*) [static]

11.143.2.285 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_BD_Shape_long_double (BD_Shape_long_double *p*, Generator *g*) [static]

11.143.2.286 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_BD_Shape_long_double_2 (BD_Shape_long_double *p_before*, BD_Shape_long_double *p_after*, Generator *g*) [static]

11.143.2.287 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_BD_Shape_mpq_class (BD_Shape_mpq_class *p*, Generator *g*) [static]

11.143.2.288 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_BD_Shape_mpq_class_2 (BD_Shape_mpq_class *p_before*, BD_Shape_mpq_class *p_after*, Generator *g*) [static]

11.143.2.289 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_BD_Shape_mpz_class (BD_Shape_mpz_class *p*, Generator *g*) [static]

11.143.2.290 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_BD_Shape_mpz_class_2 (BD_Shape_mpz_class *p_before*, BD_Shape_mpz_class *p_after*, Generator *g*) [static]

11.143.2.291 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_C_Polyhedron (C_Polyhedron *p*, Generator *g*) [static]

11.143.2.292 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_C_Polyhedron_2 (C_Polyhedron *p_before*, C_Polyhedron *p_after*, Generator *g*) [static]

11.143.2.293 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Double_Box (Double_Box *p*, Generator *g*) [static]

11.143.2.294 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Double_Box_2 (Double_Box *p_before*, Double_Box *p_after*, Generator *g*) [static]

11.143.2.295 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Float_Box (Float_Box *p*, Generator *g*) [static]

11.143.2.296 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Float_Box_2 (Float_Box *p_before*, Float_Box *p_after*, Generator *g*) [static]

11.143.2.297 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Grid (Grid *p*, Generator *g*) [static]

11.143.2.298 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Grid_2 (Grid *p_before*, Grid *p_after*, Generator *g*) [static]

11.143.2.299 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Int16_Box (Int16_Box *p*, Generator *g*) [static]

11.143.2.300 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Int16_Box_2 (Int16_Box *p_before*, Int16_Box *p_after*, Generator *g*) [static]

11.143.2.301 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Int32_Box (Int32_Box *p*, Generator *g*) [static]

11.143.2.302 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Int32_Box_2 (Int32_Box *p_before*, Int32_Box *p_after*, Generator *g*) [static]

11.143.2.303 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Int64_Box (Int64_Box *p*, Generator *g*) [static]

11.143.2.304 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Int64_Box_2 (Int64_Box *p_before*, Int64_Box *p_after*, Generator *g*) [static]

11.143.2.305 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Int8_Box (Int8_Box *p*, Generator *g*) [static]

11.143.2.306 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Int8_Box_2 (Int8_Box *p_before*, Int8_Box *p_after*, Generator *g*) [static]

11.143.2.307 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Long_Double_Box (Long_Double_Box *p*, Generator *g*) [static]

11.143.2.308 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Long_Double_Box_2 (Long_Double_Box *p_before*, Long_Double_Box *p_after*, Generator *g*) [static]

11.143.2.309 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_NNC_Polyhedron (NNC_Polyhedron *p*, Generator *g*) [static]

11.143.2.310 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_NNC_Polyhedron_2 (NNC_Polyhedron *p_before*, NNC_Polyhedron *p_after*, Generator *g*) [static]

11.143.2.311 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Octagonal_Shape_double (Octagonal_Shape_double *p*, Generator *g*) [static]

11.143.2.312 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Octagonal_Shape_double_2 (Octagonal_Shape_double *p_before*, Octagonal_Shape_double *p_after*, Generator *g*) [static]

11.143.2.313 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Octagonal_Shape_float (Octagonal_Shape_float *p*, Generator *g*) [static]

11.143.2.314 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Octagonal_Shape_float_2 (Octagonal_Shape_float *p_before*, Octagonal_Shape_float *p_after*, Generator *g*) [static]

11.143.2.315 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Octagonal_Shape_int16_t (Octagonal_Shape_int16_t *p*, Generator *g*) [static]

11.143.2.316 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Octagonal_Shape_int16_t_2 (Octagonal_Shape_int16_t *p_before*, Octagonal_Shape_int16_t *p_after*, Generator *g*) [static]

11.143.2.317 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Octagonal_Shape_int32_t (Octagonal_Shape_int32_t *p*, Generator *g*) [static]

11.143.2.318 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Octagonal_Shape_int32_t_2 (Octagonal_Shape_int32_t *p_before*, Octagonal_Shape_int32_t *p_after*, Generator *g*) [static]

11.143.2.319 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Octagonal_Shape_int64_t (Octagonal_Shape_int64_t *p*, Generator *g*) [static]

11.143.2.320 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Octagonal_Shape_int64_t_2 (Octagonal_Shape_int64_t *p_before*, Octagonal_Shape_int64_t *p_after*, Generator *g*) [static]

11.143.2.321 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Octagonal_Shape_int8_t (Octagonal_Shape_int8_t *p*, Generator *g*) [static]

11.143.2.322 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Octagonal_Shape_int8_t_2 (Octagonal_Shape_int8_t *p_before*, Octagonal_Shape_int8_t *p_after*, Generator *g*) [static]

11.143.2.323 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Octagonal_Shape_long_double (Octagonal_Shape_long_double *p*, Generator *g*) [static]

11.143.2.324 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Octagonal_Shape_long_double_2 (Octagonal_Shape_long_double *p_before*, Octagonal_Shape_long_double *p_after*, Generator *g*) [static]

11.143.2.325 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class *p*, Generator *g*) [static]

11.143.2.326 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Octagonal_Shape_mpq_class_2 (Octagonal_Shape_mpq_class *p_before*, Octagonal_Shape_mpq_class *p_after*, Generator *g*) [static]

11.143.2.327 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class *p*, Generator *g*) [static]

11.143.2.328 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Octagonal_Shape_mpz_class_2 (Octagonal_Shape_mpz_class *p_before*, Octagonal_Shape_mpz_class *p_after*, Generator *g*) [static]

11.143.2.329 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Rational_Box (Rational_Box *p*, Generator *g*) [static]

11.143.2.330 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Rational_Box_2 (Rational_Box *p_before*, Rational_Box *p_after*, Generator *g*) [static]

11.143.2.331 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Uint16_Box (Uint16_Box *p*, Generator *g*) [static]

11.143.2.332 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Uint16_Box_2 (Uint16_Box *p_before*, Uint16_Box *p_after*, Generator *g*) [static]

11.143.2.333 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Uint32_Box (Uint32_Box *p*, Generator *g*) [static]

11.143.2.334 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Uint32_Box_2 (Uint32_Box *p_before*, Uint32_Box *p_after*, Generator *g*) [static]

11.143.2.335 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Uint64_Box (Uint64_Box *p*, Generator *g*) [static]

11.143.2.336 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Uint64_Box_2 (Uint64_Box *p_before*, Uint64_Box *p_after*, Generator *g*) [static]

11.143.2.337 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Uint8_Box (Uint8_Box *p*, Generator *g*) [static]

11.143.2.338 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Uint8_Box_2 (Uint8_Box *p_before*, Uint8_Box *p_after*, Generator *g*) [static]

11.143.2.339 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Z_Box (Z_Box *p*, Generator *g*) [static]

11.143.2.340 static native boolean parma_polyhedra_library::Termination::one_affine_ranking_function_PR_Z_Box_2 (Z_Box *p_before*, Z_Box *p_after*, Generator *g*) [static]

11.143.2.341 static native boolean parma_polyhedra_library::Termination::termination_test_MS_BD_Shape_double (BD_Shape_double *p*) [static]

11.143.2.342 static native boolean parma_polyhedra_library::Termination::termination_test_MS_BD_Shape_double_2 (BD_Shape_double *p_before*, BD_Shape_double *p_after*) [static]

11.143.2.343 static native boolean parma_polyhedra_library::Termination::termination_test_MS_BD_Shape_float (BD_Shape_float *p*) [static]

11.143.2.344 static native boolean parma_polyhedra_library::Termination::termination_test_MS_BD_Shape_float_2 (BD_Shape_float *p_before*, BD_Shape_float *p_after*) [static]

11.143.2.345 static native boolean parma_polyhedra_library::Termination::termination_test_MS_BD_Shape_int16_t (BD_Shape_int16_t *p*) [static]

11.143.2.346 static native boolean parma_polyhedra_library::Termination::termination_test_-MS_BD_Shape_int16_t_2 (BD_Shape_int16_t *p_before*, BD_Shape_int16_t *p_after*) [static]

11.143.2.347 static native boolean parma_polyhedra_library::Termination::termination_test_-MS_BD_Shape_int32_t (BD_Shape_int32_t *p*) [static]

11.143.2.348 static native boolean parma_polyhedra_library::Termination::termination_test_-MS_BD_Shape_int32_t_2 (BD_Shape_int32_t *p_before*, BD_Shape_int32_t *p_after*) [static]

11.143.2.349 static native boolean parma_polyhedra_library::Termination::termination_test_-MS_BD_Shape_int64_t (BD_Shape_int64_t *p*) [static]

11.143.2.350 static native boolean parma_polyhedra_library::Termination::termination_test_-MS_BD_Shape_int64_t_2 (BD_Shape_int64_t *p_before*, BD_Shape_int64_t *p_after*) [static]

11.143.2.351 static native boolean parma_polyhedra_library::Termination::termination_test_-MS_BD_Shape_int8_t (BD_Shape_int8_t *p*) [static]

11.143.2.352 static native boolean parma_polyhedra_library::Termination::termination_test_-MS_BD_Shape_int8_t_2 (BD_Shape_int8_t *p_before*, BD_Shape_int8_t *p_after*) [static]

11.143.2.353 static native boolean parma_polyhedra_library::Termination::termination_-test_MS_BD_Shape_long_double (BD_Shape_long_double *p*) [static]

11.143.2.354 static native boolean parma_polyhedra_library::Termination::termination_test_MS_BD_Shape_long_double_2 (BD_Shape_long_double *p_before*, BD_Shape_long_double *p_after*) [static]

11.143.2.355 static native boolean parma_polyhedra_library::Termination::termination_test_MS_BD_Shape_mpq_class (BD_Shape_mpq_class *p*) [static]

11.143.2.356 static native boolean parma_polyhedra_library::Termination::termination_test_MS_BD_Shape_mpq_class_2 (BD_Shape_mpq_class *p_before*, BD_Shape_mpq_class *p_after*) [static]

11.143.2.357 static native boolean parma_polyhedra_library::Termination::termination_test_MS_BD_Shape_mpz_class (BD_Shape_mpz_class *p*) [static]

11.143.2.358 static native boolean parma_polyhedra_library::Termination::termination_test_MS_BD_Shape_mpz_class_2 (BD_Shape_mpz_class *p_before*, BD_Shape_mpz_class *p_after*) [static]

11.143.2.359 static native boolean parma_polyhedra_library::Termination::termination_test_MS_C_Polyhedron (C_Polyhedron *p*) [static]

11.143.2.360 static native boolean parma_polyhedra_library::Termination::termination_test_MS_C_Polyhedron_2 (C_Polyhedron *p_before*, C_Polyhedron *p_after*) [static]

11.143.2.361 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Double_Box (Double_Box *p*) [static]

11.143.2.362 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Double_Box_2 (Double_Box *p_before*, Double_Box *p_after*) [static]

11.143.2.363 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Float_Box (Float_Box *p*) [static]

11.143.2.364 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Float_Box_2 (Float_Box *p_before*, Float_Box *p_after*) [static]

11.143.2.365 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Grid (Grid *p*) [static]

11.143.2.366 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Grid_2 (Grid *p_before*, Grid *p_after*) [static]

11.143.2.367 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Int16_Box (Int16_Box *p*) [static]

11.143.2.368 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Int16_Box_2 (Int16_Box *p_before*, Int16_Box *p_after*) [static]

11.143.2.369 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Int32_Box (Int32_Box *p*) [static]

11.143.2.370 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Int32_Box_2 (Int32_Box *p_before*, Int32_Box *p_after*) [static]

11.143.2.371 static native boolean parma_polyhedra_library::Termination::termination_test_-MS_Int64_Box (Int64_Box *p*) [static]

11.143.2.372 static native boolean parma_polyhedra_library::Termination::termination_-test_MS_Int64_Box_2 (Int64_Box *p_before*, Int64_Box *p_after*) [static]

11.143.2.373 static native boolean parma_polyhedra_library::Termination::termination_test_-MS_Int8_Box (Int8_Box *p*) [static]

11.143.2.374 static native boolean parma_polyhedra_library::Termination::termination_-test_MS_Int8_Box_2 (Int8_Box *p_before*, Int8_Box *p_after*) [static]

11.143.2.375 static native boolean parma_polyhedra_library::Termination::termination_test_-MS_Long_Double_Box (Long_Double_Box *p*) [static]

11.143.2.376 static native boolean parma_polyhedra_library::Termination::termination_test_-MS_Long_Double_Box_2 (Long_Double_Box *p_before*, Long_Double_Box *p_after*) [static]

11.143.2.377 static native boolean parma_polyhedra_library::Termination::termination_test_-MS_NNC_Polyhedron (NNC_Polyhedron *p*) [static]

11.143.2.378 static native boolean parma_polyhedra_library::Termination::termination_test_-MS_NNC_Polyhedron_2 (NNC_Polyhedron *p_before*, NNC_Polyhedron *p_after*) [static]

11.143.2.379 static native boolean parma_polyhedra_library::Termination::termination_-test_MS_Octagonal_Shape_double (Octagonal_Shape_double *p*) [static]

11.143.2.380 static native boolean parma_polyhedra_library::Termination::termination_-test_MS_Octagonal_Shape_double_2 (Octagonal_Shape_double *p_before*, Octagonal_Shape_double *p_after*) [static]

11.143.2.381 static native boolean parma_polyhedra_library::Termination::termination_-test_MS_Octagonal_Shape_float (Octagonal_Shape_float *p*) [static]

11.143.2.382 static native boolean parma_polyhedra_library::Termination::termination_-test_MS_Octagonal_Shape_float_2 (Octagonal_Shape_float *p_before*, Octagonal_Shape_float *p_after*) [static]

11.143.2.383 static native boolean parma_polyhedra_library::Termination::termination_-test_MS_Octagonal_Shape_int16_t (Octagonal_Shape_int16_t *p*) [static]

11.143.2.384 static native boolean parma_polyhedra_library::Termination::termination_-test_MS_Octagonal_Shape_int16_t_2 (Octagonal_Shape_int16_t *p_before*, Octagonal_Shape_int16_t *p_after*) [static]

11.143.2.385 static native boolean parma_polyhedra_library::Termination::termination_-test_MS_Octagonal_Shape_int32_t (Octagonal_Shape_int32_t *p*) [static]

11.143.2.386 static native boolean parma_polyhedra_library::Termination::termination_-test_MS_Octagonal_Shape_int32_t_2 (Octagonal_Shape_int32_t *p_before*, Octagonal_Shape_int32_t *p_after*) [static]

11.143.2.387 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Octagonal_Shape_int64_t (Octagonal_Shape_int64_t *p*) [static]

11.143.2.388 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Octagonal_Shape_int64_t_2 (Octagonal_Shape_int64_t *p_before*, Octagonal_Shape_int64_t *p_after*) [static]

11.143.2.389 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Octagonal_Shape_int8_t (Octagonal_Shape_int8_t *p*) [static]

11.143.2.390 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Octagonal_Shape_int8_t_2 (Octagonal_Shape_int8_t *p_before*, Octagonal_Shape_int8_t *p_after*) [static]

11.143.2.391 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Octagonal_Shape_long_double (Octagonal_Shape_long_double *p*) [static]

11.143.2.392 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Octagonal_Shape_long_double_2 (Octagonal_Shape_long_double *p_before*, Octagonal_Shape_long_double *p_after*) [static]

11.143.2.393 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class *p*) [static]

11.143.2.394 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Octagonal_Shape_mpq_class_2 (Octagonal_Shape_mpq_class *p_before*, Octagonal_Shape_mpq_class *p_after*) [static]

11.143.2.395 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class *p*) [static]

11.143.2.396 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Octagonal_Shape_mpz_class_2 (Octagonal_Shape_mpz_class *p_before*, Octagonal_Shape_mpz_class *p_after*) [static]

11.143.2.397 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Rational_Box (Rational_Box *p*) [static]

11.143.2.398 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Rational_Box_2 (Rational_Box *p_before*, Rational_Box *p_after*) [static]

11.143.2.399 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Uint16_Box (Uint16_Box *p*) [static]

11.143.2.400 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Uint16_Box_2 (Uint16_Box *p_before*, Uint16_Box *p_after*) [static]

11.143.2.401 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Uint32_Box (Uint32_Box *p*) [static]

11.143.2.402 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Uint32_Box_2 (Uint32_Box *p_before*, Uint32_Box *p_after*) [static]

11.143.2.403 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Uint64_Box (Uint64_Box *p*) [static]

11.143.2.404 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Uint64_Box_2 (Uint64_Box *p_before*, Uint64_Box *p_after*) [static]

11.143.2.405 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Uint8_Box (Uint8_Box *p*) [static]

11.143.2.406 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Uint8_Box_2 (Uint8_Box *p_before*, Uint8_Box *p_after*) [static]

11.143.2.407 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Z_Box (Z_Box *p*) [static]

11.143.2.408 static native boolean parma_polyhedra_library::Termination::termination_test_MS_Z_Box_2 (Z_Box *p_before*, Z_Box *p_after*) [static]

11.143.2.409 static native boolean parma_polyhedra_library::Termination::termination_test_PR_BD_Shape_double (BD_Shape_double *p*) [static]

11.143.2.410 static native boolean parma_polyhedra_library::Termination::termination_test_PR_BD_Shape_double_2 (BD_Shape_double *p_before*, BD_Shape_double *p_after*) [static]

11.143.2.411 static native boolean parma_polyhedra_library::Termination::termination_test_PR_BD_Shape_float (BD_Shape_float *p*) [static]

11.143.2.412 static native boolean parma_polyhedra_library::Termination::termination_test_PR_BD_Shape_float_2 (BD_Shape_float *p_before*, BD_Shape_float *p_after*) [static]

11.143.2.413 static native boolean parma_polyhedra_library::Termination::termination_test_PR_BD_Shape_int16_t (BD_Shape_int16_t *p*) [static]

11.143.2.414 static native boolean parma_polyhedra_library::Termination::termination_test_PR_BD_Shape_int16_t_2 (BD_Shape_int16_t *p_before*, BD_Shape_int16_t *p_after*) [static]

11.143.2.415 static native boolean parma_polyhedra_library::Termination::termination_test_PR_BD_Shape_int32_t (BD_Shape_int32_t *p*) [static]

11.143.2.416 static native boolean parma_polyhedra_library::Termination::termination_test_PR_BD_Shape_int32_t_2 (BD_Shape_int32_t *p_before*, BD_Shape_int32_t *p_after*) [static]

11.143.2.417 static native boolean parma_polyhedra_library::Termination::termination_test_PR_BD_Shape_int64_t (BD_Shape_int64_t *p*) [static]

11.143.2.418 static native boolean parma_polyhedra_library::Termination::termination_test_PR_BD_Shape_int64_t_2 (BD_Shape_int64_t *p_before*, BD_Shape_int64_t *p_after*) [static]

11.143.2.419 static native boolean parma_polyhedra_library::Termination::termination_test_PR_BD_Shape_int8_t (BD_Shape_int8_t *p*) [static]

11.143.2.420 static native boolean parma_polyhedra_library::Termination::termination_test_-PR_BD_Shape_int8_t_2 (BD_Shape_int8_t *p_before*, BD_Shape_int8_t *p_after*) [static]

11.143.2.421 static native boolean parma_polyhedra_library::Termination::termination_-test_PR_BD_Shape_long_double (BD_Shape_long_double *p*) [static]

11.143.2.422 static native boolean parma_polyhedra_library::Termination::termination_-test_PR_BD_Shape_long_double_2 (BD_Shape_long_double *p_before*, BD_Shape_long_double *p_after*) [static]

11.143.2.423 static native boolean parma_polyhedra_library::Termination::termination_-test_PR_BD_Shape_mpq_class (BD_Shape_mpq_class *p*) [static]

11.143.2.424 static native boolean parma_polyhedra_library::Termination::termination_-test_PR_BD_Shape_mpq_class_2 (BD_Shape_mpq_class *p_before*, BD_Shape_mpq_class *p_after*) [static]

11.143.2.425 static native boolean parma_polyhedra_library::Termination::termination_-test_PR_BD_Shape_mpz_class (BD_Shape_mpz_class *p*) [static]

11.143.2.426 static native boolean parma_polyhedra_library::Termination::termination_test_-PR_BD_Shape_mpz_class_2 (BD_Shape_mpz_class *p_before*, BD_Shape_mpz_class *p_after*) [static]

11.143.2.427 static native boolean parma_polyhedra_library::Termination::termination_test_-PR_C_Polyhedron (C_Polyhedron *p*) [static]

11.143.2.428 static native boolean parma_polyhedra_library::Termination::termination_test_PR_C_Polyhedron_2 (C_Polyhedron *p_before*, C_Polyhedron *p_after*) [static]

11.143.2.429 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Double_Box (Double_Box *p*) [static]

11.143.2.430 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Double_Box_2 (Double_Box *p_before*, Double_Box *p_after*) [static]

11.143.2.431 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Float_Box (Float_Box *p*) [static]

11.143.2.432 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Float_Box_2 (Float_Box *p_before*, Float_Box *p_after*) [static]

11.143.2.433 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Grid (Grid *p*) [static]

11.143.2.434 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Grid_2 (Grid *p_before*, Grid *p_after*) [static]

11.143.2.435 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Int16_Box (Int16_Box *p*) [static]

11.143.2.436 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Int16_Box_2 (Int16_Box *p_before*, Int16_Box *p_after*) [static]

11.143.2.437 static native boolean parma_polyhedra_library::Termination::termination_test_-PR_Int32_Box (Int32_Box *p*) [static]

11.143.2.438 static native boolean parma_polyhedra_library::Termination::termination_-test_PR_Int32_Box_2 (Int32_Box *p_before*, Int32_Box *p_after*) [static]

11.143.2.439 static native boolean parma_polyhedra_library::Termination::termination_test_-PR_Int64_Box (Int64_Box *p*) [static]

11.143.2.440 static native boolean parma_polyhedra_library::Termination::termination_-test_PR_Int64_Box_2 (Int64_Box *p_before*, Int64_Box *p_after*) [static]

11.143.2.441 static native boolean parma_polyhedra_library::Termination::termination_test_-PR_Int8_Box (Int8_Box *p*) [static]

11.143.2.442 static native boolean parma_polyhedra_library::Termination::termination_-test_PR_Int8_Box_2 (Int8_Box *p_before*, Int8_Box *p_after*) [static]

11.143.2.443 static native boolean parma_polyhedra_library::Termination::termination_test_-PR_Long_Double_Box (Long_Double_Box *p*) [static]

11.143.2.444 static native boolean parma_polyhedra_library::Termination::termination_test_-PR_Long_Double_Box_2 (Long_Double_Box *p_before*, Long_Double_Box *p_after*) [static]

11.143.2.445 static native boolean parma_polyhedra_library::Termination::termination_test_-PR_NNC_Polyhedron (NNC_Polyhedron *p*) [static]

11.143.2.446 static native boolean parma_polyhedra_library::Termination::termination_test_-PR_NNC_Polyhedron_2 (NNC_Polyhedron *p_before*, NNC_Polyhedron *p_after*) [static]

11.143.2.447 static native boolean parma_polyhedra_library::Termination::termination_-test_PR_Octagonal_Shape_double (Octagonal_Shape_double *p*) [static]

11.143.2.448 static native boolean parma_polyhedra_library::Termination::termination_-test_PR_Octagonal_Shape_double_2 (Octagonal_Shape_double *p_before*, Octagonal_Shape_double *p_after*) [static]

11.143.2.449 static native boolean parma_polyhedra_library::Termination::termination_-test_PR_Octagonal_Shape_float (Octagonal_Shape_float *p*) [static]

11.143.2.450 static native boolean parma_polyhedra_library::Termination::termination_-test_PR_Octagonal_Shape_float_2 (Octagonal_Shape_float *p_before*, Octagonal_Shape_float *p_after*) [static]

11.143.2.451 static native boolean parma_polyhedra_library::Termination::termination_-test_PR_Octagonal_Shape_int16_t (Octagonal_Shape_int16_t *p*) [static]

11.143.2.452 static native boolean parma_polyhedra_library::Termination::termination_-test_PR_Octagonal_Shape_int16_t_2 (Octagonal_Shape_int16_t *p_before*, Octagonal_Shape_int16_t *p_after*) [static]

11.143.2.453 static native boolean parma_polyhedra_library::Termination::termination_-test_PR_Octagonal_Shape_int32_t (Octagonal_Shape_int32_t *p*) [static]

11.143.2.454 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Octagonal_Shape_int32_t_2 (Octagonal_Shape_int32_t *p_before*, Octagonal_Shape_int32_t *p_after*) [static]

11.143.2.455 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Octagonal_Shape_int64_t (Octagonal_Shape_int64_t *p*) [static]

11.143.2.456 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Octagonal_Shape_int64_t_2 (Octagonal_Shape_int64_t *p_before*, Octagonal_Shape_int64_t *p_after*) [static]

11.143.2.457 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Octagonal_Shape_int8_t (Octagonal_Shape_int8_t *p*) [static]

11.143.2.458 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Octagonal_Shape_int8_t_2 (Octagonal_Shape_int8_t *p_before*, Octagonal_Shape_int8_t *p_after*) [static]

11.143.2.459 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Octagonal_Shape_long_double (Octagonal_Shape_long_double *p*) [static]

11.143.2.460 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Octagonal_Shape_long_double_2 (Octagonal_Shape_long_double *p_before*, Octagonal_Shape_long_double *p_after*) [static]

11.143.2.461 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Octagonal_Shape_mpq_class (Octagonal_Shape_mpq_class *p*) [static]

11.143.2.462 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Octagonal_Shape_mpq_class_2 (Octagonal_Shape_mpq_class *p_before*, Octagonal_Shape_mpq_class *p_after*) [static]

11.143.2.463 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Octagonal_Shape_mpz_class (Octagonal_Shape_mpz_class *p*) [static]

11.143.2.464 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Octagonal_Shape_mpz_class_2 (Octagonal_Shape_mpz_class *p_before*, Octagonal_Shape_mpz_class *p_after*) [static]

11.143.2.465 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Rational_Box (Rational_Box *p*) [static]

11.143.2.466 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Rational_Box_2 (Rational_Box *p_before*, Rational_Box *p_after*) [static]

11.143.2.467 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Uint16_Box (Uint16_Box *p*) [static]

11.143.2.468 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Uint16_Box_2 (Uint16_Box *p_before*, Uint16_Box *p_after*) [static]

11.143.2.469 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Uint32_Box (Uint32_Box *p*) [static]

11.143.2.470 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Uint32_Box_2 (Uint32_Box *p_before*, Uint32_Box *p_after*) [static]

11.143.2.471 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Uint64_Box (Uint64_Box *p*) [static]

11.143.2.472 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Uint64_Box_2 (Uint64_Box *p_before*, Uint64_Box *p_after*) [static]

11.143.2.473 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Uint8_Box (Uint8_Box *p*) [static]

11.143.2.474 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Uint8_Box_2 (Uint8_Box *p_before*, Uint8_Box *p_after*) [static]

11.143.2.475 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Z_Box (Z_Box *p*) [static]

11.143.2.476 static native boolean parma_polyhedra_library::Termination::termination_test_PR_Z_Box_2 (Z_Box *p_before*, Z_Box *p_after*) [static]

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

- Termination.java

11.144 Parma_Polyhedra_Library::Interfaces::Java::timeout_exception Class Reference

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

Public Member Functions

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

11.144.1 Detailed Description

Definition at line 122 of file ppl_java_common.defs.hh.

11.144.2 Member Function Documentation

11.144.2.1 int Parma_Polyhedra_Library::Interfaces::Java::timeout_exception::priority () const [inline]

Definition at line 128 of file ppl_java_common.defs.hh.

11.144.2.2 void Parma_Polyhedra_Library::Interfaces::Java::timeout_exception::throw_me () const [inline]

Definition at line 125 of file ppl_java_common.defs.hh.

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

- ppl_java_common.defs.hh

11.145 parma_polyhedra_library::Timeout_Exception Class Reference

Exceptions caused by timeout expiring.

Public Member Functions

- Timeout_Exception (String s)
  Constructor.

11.145.1 Detailed Description

Exceptions caused by timeout expiring.

Definition at line 28 of file Timeout_Exception.java.

11.145.2 Constructor & Destructor Documentation

11.145.2.1 parma_polyhedra_library::Timeout_Exception::Timeout_Exception (String *s*) [inline]

Constructor.

Definition at line 30 of file Timeout_Exception.java.

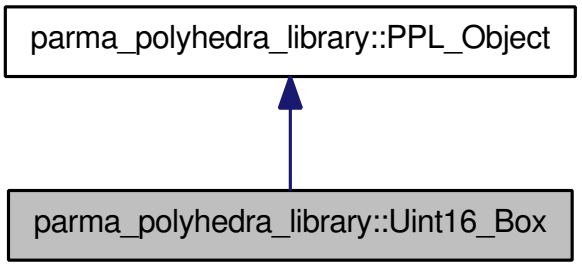
The documentation for this class was generated from the following file:

- Timeout_Exception.java

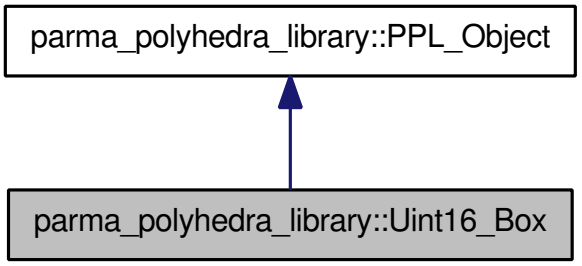
11.146 parma_polyhedra_library::Uint16_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Uint16_Box.

Inheritance diagram for parma_polyhedra_library::Uint16_Box:



Collaboration diagram for parma_polyhedra_library::Uint16_Box:



Public Member Functions

- Uint16_Box (long num_dimensions, Degenerate_Element kind)
- Uint16_Box (Int8_Box y)
- Uint16_Box (Int16_Box y)
- Uint16_Box (Int32_Box y)
- Uint16_Box (Int64_Box y)
- Uint16_Box (Uint8_Box y)
- Uint16_Box (Uint16_Box y)
- Uint16_Box (Uint32_Box y)
- Uint16_Box (Uint64_Box y)
- Uint16_Box (Z_Box y)
- Uint16_Box (Rational_Box y)
- Uint16_Box (BD_Shape_int8_t y)
- Uint16_Box (BD_Shape_int16_t y)

- Uint16_Box (BD_Shape_int32_t y)
- Uint16_Box (BD_Shape_int64_t y)
- Uint16_Box (BD_Shape_mpz_class y)
- Uint16_Box (BD_Shape_mpq_class y)
- Uint16_Box (Octagonal_Shape_int8_t y)
- Uint16_Box (Octagonal_Shape_int16_t y)
- Uint16_Box (Octagonal_Shape_int32_t y)
- Uint16_Box (Octagonal_Shape_int64_t y)
- Uint16_Box (Octagonal_Shape_mpz_class y)
- Uint16_Box (Octagonal_Shape_mpq_class y)
- Uint16_Box (C_Polyhedron y)
- Uint16_Box (NNC_Polyhedron y)
- Uint16_Box (Grid y)
- Uint16_Box (Float_Box y)
- Uint16_Box (BD_Shape_float y)
- Uint16_Box (Octagonal_Shape_float y)
- Uint16_Box (Double_Box y)
- Uint16_Box (BD_Shape_double y)
- Uint16_Box (Octagonal_Shape_double y)
- Uint16_Box (Long_Double_Box y)
- Uint16_Box (BD_Shape_long_double y)
- Uint16_Box (Octagonal_Shape_long_double y)
- Uint16_Box (Int8_Box y, Complexity_Class complexity)
- Uint16_Box (Int16_Box y, Complexity_Class complexity)
- Uint16_Box (Int32_Box y, Complexity_Class complexity)
- Uint16_Box (Int64_Box y, Complexity_Class complexity)
- Uint16_Box (Uint8_Box y, Complexity_Class complexity)
- Uint16_Box (Uint16_Box y, Complexity_Class complexity)
- Uint16_Box (Uint32_Box y, Complexity_Class complexity)
- Uint16_Box (Uint64_Box y, Complexity_Class complexity)
- Uint16_Box (Z_Box y, Complexity_Class complexity)
- Uint16_Box (Rational_Box y, Complexity_Class complexity)
- Uint16_Box (BD_Shape_int8_t y, Complexity_Class complexity)
- Uint16_Box (BD_Shape_int16_t y, Complexity_Class complexity)
- Uint16_Box (BD_Shape_int32_t y, Complexity_Class complexity)
- Uint16_Box (BD_Shape_int64_t y, Complexity_Class complexity)
- Uint16_Box (BD_Shape_mpz_class y, Complexity_Class complexity)
- Uint16_Box (BD_Shape_mpq_class y, Complexity_Class complexity)
- Uint16_Box (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Uint16_Box (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Uint16_Box (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Uint16_Box (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Uint16_Box (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Uint16_Box (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Uint16_Box (C_Polyhedron y, Complexity_Class complexity)
- Uint16_Box (NNC_Polyhedron y, Complexity_Class complexity)
- Uint16_Box (Grid y, Complexity_Class complexity)
- Uint16_Box (Float_Box y, Complexity_Class complexity)
- Uint16_Box (BD_Shape_float y, Complexity_Class complexity)
- Uint16_Box (Octagonal_Shape_float y, Complexity_Class complexity)

- Uint16_Box (Double_Box y, Complexity_Class complexity)
- Uint16_Box (BD_Shape_double y, Complexity_Class complexity)
- Uint16_Box (Octagonal_Shape_double y, Complexity_Class complexity)
- Uint16_Box (Long_Double_Box y, Complexity_Class complexity)
- Uint16_Box (BD_Shape_long_double y, Complexity_Class complexity)
- Uint16_Box (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Uint16_Box (Constraint_System cs)
- Uint16_Box (Congruence_System cs)
- Uint16_Box (Generator_System cs)
- native void swap (Uint16_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Uint16_Box y)
- native boolean strictly_contains (Uint16_Box y)
- native boolean is_disjoint_from (Uint16_Box y)
- native boolean equals (Uint16_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)

- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Uint16_Box p)
- native void upper_bound_assign (Uint16_Box p)
- native void difference_assign (Uint16_Box p)
- native void concatenate_assign (Uint16_Box p)
- native void time_elapse_assign (Uint16_Box p)
- native boolean upper_bound_assign_if_exact (Uint16_Box y)
- native boolean simplify_using_context_assign (Uint16_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void CC76_widening_assign (Uint16_Box y, By_Reference< Integer > tp)
- native void widening_assign (Uint16_Box y, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Uint16_Box y, Constraint_System cs, By_Reference< Integer > tp)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native String toString ()

Static Public Member Functions

- static native Pair< Uint16_Box, Pointset_Powerset_NNC_Polyhedron > linear_partition (Uint16_Box p, Uint16_Box q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Uint16_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)

- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.146.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Uint16_Box.

Definition at line 33 of file Uint16_Box.java.

11.146.2 Constructor & Destructor Documentation

11.146.2.1 parma_polyhedra_library::Uint16_Box::Uint16_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.2 parma_polyhedra_library::Uint16_Box::Uint16_Box () [inline, private]

Definition at line 45 of file Uint16_Box.java.

11.146.2.3 parma_polyhedra_library::Uint16_Box::Uint16_Box (Int8_Box *y*) [inline]

Definition at line 52 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.4 parma_polyhedra_library::Uint16_Box::Uint16_Box (Int16_Box *y*) [inline]

Definition at line 56 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.5 parma_polyhedra_library::Uint16_Box::Uint16_Box (Int32_Box *y*) [inline]

Definition at line 60 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.6 parma_polyhedra_library::Uint16_Box::Uint16_Box (Int64_Box *y*) [inline]

Definition at line 64 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.7 parma_polyhedra_library::Uint16_Box::Uint16_Box (Uint8_Box *y*) [inline]

Definition at line 68 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.8 parma_polyhedra_library::Uint16_Box::Uint16_Box (Uint16_Box *y*) [inline]

Definition at line 72 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.9 parma_polyhedra_library::Uint16_Box::Uint16_Box (Uint32_Box *y*) [inline]

Definition at line 76 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.10 parma_polyhedra_library::Uint16_Box::Uint16_Box (Uint64_Box *y*) [inline]

Definition at line 80 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.11 parma_polyhedra_library::Uint16_Box::Uint16_Box (Z_Box *y*) [inline]

Definition at line 84 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.12 parma_polyhedra_library::Uint16_Box::Uint16_Box (Rational_Box *y*) [inline]

Definition at line 88 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.13 parma_polyhedra_library::Uint16_Box::Uint16_Box (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.14 parma_polyhedra_library::Uint16_Box::Uint16_Box (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.15 parma_polyhedra_library::Uint16_Box::Uint16_Box (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.16 parma_polyhedra_library::Uint16_Box::Uint16_Box (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.17 parma_polyhedra_library::Uint16_Box::Uint16_Box (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.18 parma_polyhedra_library::Uint16_Box::Uint16_Box (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.19 parma_polyhedra_library::Uint16_Box::Uint16_Box (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.20 parma_polyhedra_library::Uint16_Box::Uint16_Box (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.21 parma_polyhedra_library::Uint16_Box::Uint16_Box (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.22 parma_polyhedra_library::Uint16_Box::Uint16_Box (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.23 parma_polyhedra_library::Uint16_Box::Uint16_Box (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.24 parma_polyhedra_library::Uint16_Box::Uint16_Box (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.25 parma_polyhedra_library::Uint16_Box::Uint16_Box (C_Polyhedron *y*) [inline]

Definition at line 140 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.26 parma_polyhedra_library::Uint16_Box::Uint16_Box (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.27 parma_polyhedra_library::Uint16_Box::Uint16_Box (Grid *y*) [inline]

Definition at line 148 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.28 parma_polyhedra_library::Uint16_Box::Uint16_Box (Float_Box *y*) [inline]

Definition at line 152 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.29 parma_polyhedra_library::Uint16_Box::Uint16_Box (BD_Shape_float *y*) [inline]

Definition at line 156 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.30 parma_polyhedra_library::Uint16_Box::Uint16_Box (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.31 parma_polyhedra_library::Uint16_Box::Uint16_Box (Double_Box *y*) [inline]

Definition at line 164 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.32 parma_polyhedra_library::Uint16_Box::Uint16_Box (BD_Shape_double *y*) [inline]

Definition at line 168 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.33 parma_polyhedra_library::Uint16_Box::Uint16_Box (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.34 parma_polyhedra_library::Uint16_Box::Uint16_Box (Long_Double_Box *y*) [inline]

Definition at line 176 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.35 parma_polyhedra_library::Uint16_Box::Uint16_Box (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.36 parma_polyhedra_library::Uint16_Box::Uint16_Box (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.37 parma_polyhedra_library::Uint16_Box::Uint16_Box (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.38 parma_polyhedra_library::Uint16_Box::Uint16_Box (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.39 parma_polyhedra_library::Uint16_Box::Uint16_Box (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.40 parma_polyhedra_library::Uint16_Box::Uint16_Box (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.41 parma_polyhedra_library::Uint16_Box::Uint16_Box (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.42 parma_polyhedra_library::Uint16_Box::Uint16_Box (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.43 parma_polyhedra_library::Uint16_Box::Uint16_Box (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.44 parma_polyhedra_library::Uint16_Box::Uint16_Box (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.45 parma_polyhedra_library::Uint16_Box::Uint16_Box (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.46 parma_polyhedra_library::Uint16_Box::Uint16_Box (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.47 parma_polyhedra_library::Uint16_Box::Uint16_Box (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.48 parma_polyhedra_library::Uint16_Box::Uint16_Box (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.49 parma_polyhedra_library::Uint16_Box::Uint16_Box (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.50 parma_polyhedra_library::Uint16_Box::Uint16_Box (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.51 parma_polyhedra_library::Uint16_Box::Uint16_Box (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.52 parma_polyhedra_library::Uint16_Box::Uint16_Box (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.53 parma_polyhedra_library::Uint16_Box::Uint16_Box (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.54 parma_polyhedra_library::Uint16_Box::Uint16_Box (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.55 parma_polyhedra_library::Uint16_Box::Uint16_Box (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.56 parma_polyhedra_library::Uint16_Box::Uint16_Box (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.57 parma_polyhedra_library::Uint16_Box::Uint16_Box (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.58 parma_polyhedra_library::Uint16_Box::Uint16_Box (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.59 parma_polyhedra_library::Uint16_Box::Uint16_Box (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.60 parma_polyhedra_library::Uint16_Box::Uint16_Box (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.61 parma_polyhedra_library::Uint16_Box::Uint16_Box (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.62 parma_polyhedra_library::Uint16_Box::Uint16_Box (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.63 parma_polyhedra_library::Uint16_Box::Uint16_Box (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.64 parma_polyhedra_library::Uint16_Box::Uint16_Box (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.65 parma_polyhedra_library::Uint16_Box::Uint16_Box (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.66 parma_polyhedra_library::Uint16_Box::Uint16_Box (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.67 parma_polyhedra_library::Uint16_Box::Uint16_Box (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.68 parma_polyhedra_library::Uint16_Box::Uint16_Box (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.69 parma_polyhedra_library::Uint16_Box::Uint16_Box (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.70 parma_polyhedra_library::Uint16_Box::Uint16_Box (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.71 parma_polyhedra_library::Uint16_Box::Uint16_Box (Constraint_System *cs*) [inline]

Definition at line 334 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.72 parma_polyhedra_library::Uint16_Box::Uint16_Box (Congruence_System *cs*) [inline]

Definition at line 338 of file Uint16_Box.java.

References build_cpp_object().

11.146.2.73 parma_polyhedra_library::Uint16_Box::Uint16_Box (Generator_System *cs*) [inline]

Definition at line 342 of file Uint16_Box.java.

References build_cpp_object().

11.146.3 Member Function Documentation

11.146.3.1 native void parma_polyhedra_library::Uint16_Box::add_congruence (Congruence *c*)

11.146.3.2 native void parma_polyhedra_library::Uint16_Box::add_congruences (Congruence_System *c*)

11.146.3.3 native void parma_polyhedra_library::Uint16_Box::add_constraint (Constraint *c*)

11.146.3.4 native void parma_polyhedra_library::Uint16_Box::add_constraints (Constraint_System *c*)

11.146.3.5 native void parma_polyhedra_library::Uint16_Box::add_space_dimensions_and_embed (long *m*)

11.146.3.6 native void parma_polyhedra_library::Uint16_Box::add_space_dimensions_and_-project (long *m*)

11.146.3.7 native long parma_polyhedra_library::Uint16_Box::affine_dimension ()

11.146.3.8 native void parma_polyhedra_library::Uint16_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.146.3.9 native void parma_polyhedra_library::Uint16_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.146.3.10 native String parma_polyhedra_library::Uint16_Box::ascii_dump ()

11.146.3.11 native void parma_polyhedra_library::Uint16_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.146.3.12 native void parma_polyhedra_library::Uint16_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.146.3.13 native boolean parma_polyhedra_library::Uint16_Box::bounds_from_above (Linear_Expression *expr*)

11.146.3.14 native boolean parma_polyhedra_library::Uint16_Box::bounds_from_below (Linear_Expression *expr*)

11.146.3.15 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.146.3.16 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Octagonal_Shape_long_double *y*) [private]

11.146.3.17 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.146.3.18 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (BD_Shape_long_double *y*) [private]

11.146.3.19 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.146.3.20 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Long_Double_Box *y*) [private]

11.146.3.21 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.146.3.22 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.146.3.23 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.146.3.24 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (BD_Shape_double *y*) [private]

11.146.3.25 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.146.3.26 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Double_Box *y*) [private]

11.146.3.27 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.146.3.28 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.146.3.29 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.146.3.30 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (BD_Shape_float *y*) [private]

11.146.3.31 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.146.3.32 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Float_Box *y*) [private]

11.146.3.33 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.146.3.34 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Grid *y*) [private]

11.146.3.35 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.146.3.36 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (NNC_Polyhedron *y*) [private]

11.146.3.37 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.146.3.38 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (C_Polyhedron *y*) [private]

11.146.3.39 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.146.3.40 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.146.3.41 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.146.3.42 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.146.3.43 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.146.3.44 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.146.3.45 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.146.3.46 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.146.3.47 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.146.3.48 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.146.3.49 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.146.3.50 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.146.3.51 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.146.3.52 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.146.3.53 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.146.3.54 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.146.3.55 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.146.3.56 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.146.3.57 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.146.3.58 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.146.3.59 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.146.3.60 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.146.3.61 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.146.3.62 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.146.3.63 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.146.3.64 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Rational_Box *y*) [private]

11.146.3.65 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.146.3.66 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Z_Box *y*) [private]

11.146.3.67 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.146.3.68 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Uint64_Box *y*) [private]

11.146.3.69 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.146.3.70 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Uint32_Box *y*) [private]

11.146.3.71 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.146.3.72 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Uint16_Box *y*) [private]

11.146.3.73 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.146.3.74 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Uint8_Box *y*) [private]

11.146.3.75 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.146.3.76 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Int64_Box *y*) [private]

11.146.3.77 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.146.3.78 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Int32_Box *y*) [private]

11.146.3.79 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.146.3.80 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Int16_Box *y*) [private]

11.146.3.81 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.146.3.82 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Int8_Box *y*) [private]

11.146.3.83 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.146.3.84 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Generator_System *cs*) [private]

11.146.3.85 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Congruence_System *cs*) [private]

11.146.3.86 native void parma_polyhedra_library::Uint16_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Uint16_Box().

11.146.3.87 native void parma_polyhedra_library::Uint16_Box::CC76_widening_assign (Uint16_Box *y*, By_Reference< Integer > *tp*)

11.146.3.88 native void parma_polyhedra_library::Uint16_Box::concatenate_assign (Uint16_Box *p*)

11.146.3.89 native Congruence_System parma_polyhedra_library::Uint16_Box::congruences ()

11.146.3.90 native boolean parma_polyhedra_library::Uint16_Box::constrains (Variable *var*)

11.146.3.91 native Constraint_System parma_polyhedra_library::Uint16_Box::constraints ()

11.146.3.92 native boolean parma_polyhedra_library::Uint16_Box::contains (Uint16_Box *y*)

11.146.3.93 native boolean parma_polyhedra_library::Uint16_Box::contains_integer_point ()

11.146.3.94 native void parma_polyhedra_library::Uint16_Box::difference_assign (Uint16_Box *p*)

11.146.3.95 native void parma_polyhedra_library::Uint16_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.146.3.96 native void parma_polyhedra_library::Uint16_Box::drop_some_non_integer_points_-2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.146.3.97 boolean parma_polyhedra_library::Uint16_Box::equals (Object *y*) [inline]

Definition at line 465 of file Uint16_Box.java.

References equals().

11.146.3.98 native boolean parma_polyhedra_library::Uint16_Box::equals (Uint16_Box *p*)

Referenced by equals().

11.146.3.99 native void parma_polyhedra_library::Uint16_Box::expand_space_dimension (Variable *var*, long *m*)

11.146.3.100 native long parma_polyhedra_library::Uint16_Box::external_memory_in_bytes ()

11.146.3.101 native void parma_polyhedra_library::Uint16_Box::finalize () [protected]

11.146.3.102 native void parma_polyhedra_library::Uint16_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.146.3.103 native void parma_polyhedra_library::Uint16_Box::free ()

11.146.3.104 native boolean parma_polyhedra_library::Uint16_Box::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.146.3.105 native void parma_polyhedra_library::Uint16_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.146.3.106 native void parma_polyhedra_library::Uint16_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.146.3.107 native void parma_polyhedra_library::Uint16_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.146.3.108 native void parma_polyhedra_library::Uint16_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.146.3.109 native void parma_polyhedra_library::Uint16_Box::intersection_assign (Uint16_Box *p*)

11.146.3.110 native boolean parma_polyhedra_library::Uint16_Box::is_bounded ()

11.146.3.111 native boolean parma_polyhedra_library::Uint16_Box::is_discrete ()

11.146.3.112 native boolean parma_polyhedra_library::Uint16_Box::is_disjoint_from (Uint16_Box *y*)

11.146.3.113 native boolean parma_polyhedra_library::Uint16_Box::is_empty ()

11.146.3.114 native boolean parma_polyhedra_library::Uint16_Box::is_topologically_closed ()

11.146.3.115 native boolean parma_polyhedra_library::Uint16_Box::is_universe ()

11.146.3.116 native void parma_polyhedra_library::Uint16_Box::limited_CC76_extrapolation_-assign (Uint16_Box *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.146.3.117 static native Pair<Uint16_Box, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Uint16_Box::linear_partition (Uint16_Box *p*, Uint16_Box *q*) `[static]`

11.146.3.118 native void parma_polyhedra_library::Uint16_Box::map_space_dimensions (Partial_Function *pfunc*)

11.146.3.119 native boolean parma_polyhedra_library::Uint16_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.146.3.120 native boolean parma_polyhedra_library::Uint16_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.146.3.121 native boolean parma_polyhedra_library::Uint16_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.146.3.122 native boolean parma_polyhedra_library::Uint16_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.146.3.123 native Congruence_System parma_polyhedra_library::Uint16_Box::minimized_-congruences ()

11.146.3.124 native Constraint_System parma_polyhedra_library::Uint16_Box::minimized_constraints ()

11.146.3.125 native boolean parma_polyhedra_library::Uint16_Box::OK ()

11.146.3.126 native void parma_polyhedra_library::Uint16_Box::refine_with_congruence (Congruence *c*)

11.146.3.127 native void parma_polyhedra_library::Uint16_Box::refine_with_congruences (Congruence_System *c*)

11.146.3.128 native void parma_polyhedra_library::Uint16_Box::refine_with_constraint (Constraint *c*)

11.146.3.129 native void parma_polyhedra_library::Uint16_Box::refine_with_constraints (Constraint_System *c*)

11.146.3.130 native Poly_Con_Relation parma_polyhedra_library::Uint16_Box::relation_with (Congruence *c*)

11.146.3.131 native Poly_Gen_Relation parma_polyhedra_library::Uint16_Box::relation_with (Generator *c*)

11.146.3.132 native Poly_Con_Relation parma_polyhedra_library::Uint16_Box::relation_with (Constraint *c*)

11.146.3.133 native void parma_polyhedra_library::Uint16_Box::remove_higher_space_dimensions (long *new_dimension*)

11.146.3.134 native void parma_polyhedra_library::Uint16_Box::remove_space_dimensions (Variables_Set *vars*)

11.146.3.135 native boolean parma_polyhedra_library::Uint16_Box::simplify_using_context_-assign (Uint16_Box *p*)

11.146.3.136 native long parma_polyhedra_library::Uint16_Box::space_dimension ()

11.146.3.137 native boolean parma_polyhedra_library::Uint16_Box::strictly_contains (Uint16_Box *y*)

11.146.3.138 native void parma_polyhedra_library::Uint16_Box::swap (Uint16_Box *y*)

11.146.3.139 native void parma_polyhedra_library::Uint16_Box::time_elapse_assign (Uint16_Box *p*)

11.146.3.140 native void parma_polyhedra_library::Uint16_Box::topological_closure_assign ()

11.146.3.141 native String parma_polyhedra_library::Uint16_Box::toString ()

11.146.3.142 native long parma_polyhedra_library::Uint16_Box::total_memory_in_bytes ()

11.146.3.143 native void parma_polyhedra_library::Uint16_Box::unconstrain_space_dimension (Variable *var*)

11.146.3.144 native void parma_polyhedra_library::Uint16_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.146.3.145 native void parma_polyhedra_library::Uint16_Box::upper_bound_assign (Uint16_Box *p*)

11.146.3.146 native boolean parma_polyhedra_library::Uint16_Box::upper_bound_assign_if_exact (Uint16_Box *y*)

11.146.3.147 native void parma_polyhedra_library::Uint16_Box::widening_assign (Uint16_Box *y*, By_Reference< Integer > *tp*)

11.146.3.148 native void parma_polyhedra_library::Uint16_Box::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

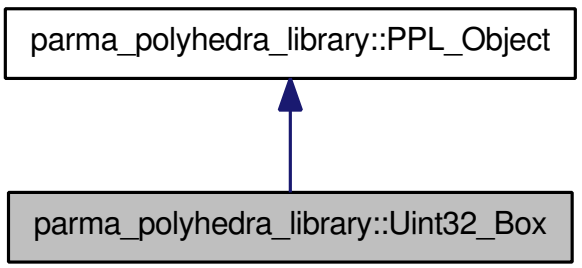
The documentation for this class was generated from the following file:

- Uint16_Box.java

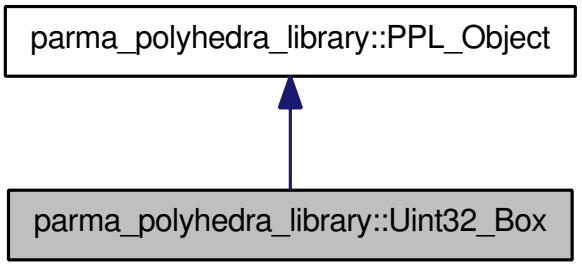
11.147 parma_polyhedra_library::Uint32_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Uint32_Box.

Inheritance diagram for parma_polyhedra_library::Uint32_Box:



Collaboration diagram for parma_polyhedra_library::Uint32_Box:



Public Member Functions

- Uint32_Box (long num_dimensions, Degenerate_Element kind)
- Uint32_Box (Int8_Box y)
- Uint32_Box (Int16_Box y)
- Uint32_Box (Int32_Box y)
- Uint32_Box (Int64_Box y)
- Uint32_Box (Uint8_Box y)
- Uint32_Box (Uint16_Box y)
- Uint32_Box (Uint32_Box y)
- Uint32_Box (Uint64_Box y)
- Uint32_Box (Z_Box y)
- Uint32_Box (Rational_Box y)
- Uint32_Box (BD_Shape_int8_t y)
- Uint32_Box (BD_Shape_int16_t y)
- Uint32_Box (BD_Shape_int32_t y)
- Uint32_Box (BD_Shape_int64_t y)
- Uint32_Box (BD_Shape_mpz_class y)
- Uint32_Box (BD_Shape_mpq_class y)
- Uint32_Box (Octagonal_Shape_int8_t y)
- Uint32_Box (Octagonal_Shape_int16_t y)
- Uint32_Box (Octagonal_Shape_int32_t y)
- Uint32_Box (Octagonal_Shape_int64_t y)
- Uint32_Box (Octagonal_Shape_mpz_class y)
- Uint32_Box (Octagonal_Shape_mpq_class y)
- Uint32_Box (C_Polyhedron y)
- Uint32_Box (NNC_Polyhedron y)
- Uint32_Box (Grid y)
- Uint32_Box (Float_Box y)
- Uint32_Box (BD_Shape_float y)
- Uint32_Box (Octagonal_Shape_float y)
- Uint32_Box (Double_Box y)
- Uint32_Box (BD_Shape_double y)
- Uint32_Box (Octagonal_Shape_double y)
- Uint32_Box (Long_Double_Box y)
- Uint32_Box (BD_Shape_long_double y)
- Uint32_Box (Octagonal_Shape_long_double y)
- Uint32_Box (Int8_Box y, Complexity_Class complexity)

- Uint32_Box (Int16_Box y, Complexity_Class complexity)
- Uint32_Box (Int32_Box y, Complexity_Class complexity)
- Uint32_Box (Int64_Box y, Complexity_Class complexity)
- Uint32_Box (Uint8_Box y, Complexity_Class complexity)
- Uint32_Box (Uint16_Box y, Complexity_Class complexity)
- Uint32_Box (Uint32_Box y, Complexity_Class complexity)
- Uint32_Box (Uint64_Box y, Complexity_Class complexity)
- Uint32_Box (Z_Box y, Complexity_Class complexity)
- Uint32_Box (Rational_Box y, Complexity_Class complexity)
- Uint32_Box (BD_Shape_int8_t y, Complexity_Class complexity)
- Uint32_Box (BD_Shape_int16_t y, Complexity_Class complexity)
- Uint32_Box (BD_Shape_int32_t y, Complexity_Class complexity)
- Uint32_Box (BD_Shape_int64_t y, Complexity_Class complexity)
- Uint32_Box (BD_Shape_mpz_class y, Complexity_Class complexity)
- Uint32_Box (BD_Shape_mpq_class y, Complexity_Class complexity)
- Uint32_Box (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Uint32_Box (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Uint32_Box (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Uint32_Box (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Uint32_Box (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Uint32_Box (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Uint32_Box (C_Polyhedron y, Complexity_Class complexity)
- Uint32_Box (NNC_Polyhedron y, Complexity_Class complexity)
- Uint32_Box (Grid y, Complexity_Class complexity)
- Uint32_Box (Float_Box y, Complexity_Class complexity)
- Uint32_Box (BD_Shape_float y, Complexity_Class complexity)
- Uint32_Box (Octagonal_Shape_float y, Complexity_Class complexity)
- Uint32_Box (Double_Box y, Complexity_Class complexity)
- Uint32_Box (BD_Shape_double y, Complexity_Class complexity)
- Uint32_Box (Octagonal_Shape_double y, Complexity_Class complexity)
- Uint32_Box (Long_Double_Box y, Complexity_Class complexity)
- Uint32_Box (BD_Shape_long_double y, Complexity_Class complexity)
- Uint32_Box (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Uint32_Box (Constraint_System cs)
- Uint32_Box (Congruence_System cs)
- Uint32_Box (Generator_System cs)
- native void swap (Uint32_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()

- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Uint32_Box y)
- native boolean strictly_contains (Uint32_Box y)
- native boolean is_disjoint_from (Uint32_Box y)
- native boolean equals (Uint32_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Uint32_Box p)
- native void upper_bound_assign (Uint32_Box p)
- native void difference_assign (Uint32_Box p)
- native void concatenate_assign (Uint32_Box p)
- native void time_elapse_assign (Uint32_Box p)
- native boolean upper_bound_assign_if_exact (Uint32_Box y)
- native boolean simplify_using_context_assign (Uint32_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)

- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void CC76_widening_assign (Uint32_Box y, By_Reference< Integer > tp)
- native void widening_assign (Uint32_Box y, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Uint32_Box y, Constraint_System cs, By_Reference< Integer > tp)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native String toString ()

Static Public Member Functions

- static native Pair< Uint32_Box, Pointset_Powerset_NNC_Polyhedron > linear_partition (Uint32_Box p, Uint32_Box q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Uint32_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)

- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)

- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.147.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Uint32_Box.

Definition at line 33 of file Uint32_Box.java.

11.147.2 Constructor & Destructor Documentation

11.147.2.1 parma_polyhedra_library::Uint32_Box::Uint32_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.2 parma_polyhedra_library::Uint32_Box::Uint32_Box () [inline, private]

Definition at line 45 of file Uint32_Box.java.

11.147.2.3 parma_polyhedra_library::Uint32_Box::Uint32_Box (Int8_Box *y*) [inline]

Definition at line 52 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.4 parma_polyhedra_library::Uint32_Box::Uint32_Box (Int16_Box *y*) [inline]

Definition at line 56 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.5 parma_polyhedra_library::Uint32_Box::Uint32_Box (Int32_Box *y*) [inline]

Definition at line 60 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.6 parma_polyhedra_library::Uint32_Box::Uint32_Box (Int64_Box *y*) [inline]

Definition at line 64 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.7 parma_polyhedra_library::Uint32_Box::Uint32_Box (Uint8_Box *y*) [inline]

Definition at line 68 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.8 parma_polyhedra_library::Uint32_Box::Uint32_Box (Uint16_Box *y*) [inline]

Definition at line 72 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.9 parma_polyhedra_library::Uint32_Box::Uint32_Box (Uint32_Box *y*) [inline]

Definition at line 76 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.10 parma_polyhedra_library::Uint32_Box::Uint32_Box (Uint64_Box *y*) [inline]

Definition at line 80 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.11 parma_polyhedra_library::Uint32_Box::Uint32_Box (Z_Box *y*) [inline]

Definition at line 84 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.12 parma_polyhedra_library::Uint32_Box::Uint32_Box (Rational_Box *y*) [inline]

Definition at line 88 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.13 parma_polyhedra_library::Uint32_Box::Uint32_Box (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.14 parma_polyhedra_library::Uint32_Box::Uint32_Box (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.15 parma_polyhedra_library::Uint32_Box::Uint32_Box (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.16 parma_polyhedra_library::Uint32_Box::Uint32_Box (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.17 parma_polyhedra_library::Uint32_Box::Uint32_Box (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.18 parma_polyhedra_library::Uint32_Box::Uint32_Box (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.19 parma_polyhedra_library::Uint32_Box::Uint32_Box (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.20 parma_polyhedra_library::Uint32_Box::Uint32_Box (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.21 parma_polyhedra_library::Uint32_Box::Uint32_Box (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.22 parma_polyhedra_library::Uint32_Box::Uint32_Box (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.23 parma_polyhedra_library::Uint32_Box::Uint32_Box (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.24 parma_polyhedra_library::Uint32_Box::Uint32_Box (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.25 parma_polyhedra_library::Uint32_Box::Uint32_Box (C_Polyhedron *y*) [inline]

Definition at line 140 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.26 parma_polyhedra_library::Uint32_Box::Uint32_Box (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.27 parma_polyhedra_library::Uint32_Box::Uint32_Box (Grid *y*) [inline]

Definition at line 148 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.28 parma_polyhedra_library::Uint32_Box::Uint32_Box (Float_Box *y*) [inline]

Definition at line 152 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.29 parma_polyhedra_library::Uint32_Box::Uint32_Box (BD_Shape_float *y*) [inline]

Definition at line 156 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.30 parma_polyhedra_library::Uint32_Box::Uint32_Box (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.31 parma_polyhedra_library::Uint32_Box::Uint32_Box (Double_Box *y*) [inline]

Definition at line 164 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.32 parma_polyhedra_library::Uint32_Box::Uint32_Box (BD_Shape_double *y*) [inline]

Definition at line 168 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.33 parma_polyhedra_library::Uint32_Box::Uint32_Box (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.34 parma_polyhedra_library::Uint32_Box::Uint32_Box (Long_Double_Box *y*) [inline]

Definition at line 176 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.35 parma_polyhedra_library::Uint32_Box::Uint32_Box (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.36 parma_polyhedra_library::Uint32_Box::Uint32_Box (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.37 parma_polyhedra_library::Uint32_Box::Uint32_Box (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.38 parma_polyhedra_library::Uint32_Box::Uint32_Box (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.39 parma_polyhedra_library::Uint32_Box::Uint32_Box (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.40 parma_polyhedra_library::Uint32_Box::Uint32_Box (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.41 parma_polyhedra_library::Uint32_Box::Uint32_Box (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.42 parma_polyhedra_library::Uint32_Box::Uint32_Box (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.43 parma_polyhedra_library::Uint32_Box::Uint32_Box (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.44 parma_polyhedra_library::Uint32_Box::Uint32_Box (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.45 parma_polyhedra_library::Uint32_Box::Uint32_Box (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.46 parma_polyhedra_library::Uint32_Box::Uint32_Box (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.47 parma_polyhedra_library::Uint32_Box::Uint32_Box (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.48 parma_polyhedra_library::Uint32_Box::Uint32_Box (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.49 parma_polyhedra_library::Uint32_Box::Uint32_Box (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.50 parma_polyhedra_library::Uint32_Box::Uint32_Box (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.51 parma_polyhedra_library::Uint32_Box::Uint32_Box (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.52 parma_polyhedra_library::Uint32_Box::Uint32_Box (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.53 parma_polyhedra_library::Uint32_Box::Uint32_Box (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.54 parma_polyhedra_library::Uint32_Box::Uint32_Box (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.55 parma_polyhedra_library::Uint32_Box::Uint32_Box (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.56 parma_polyhedra_library::Uint32_Box::Uint32_Box (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.57 parma_polyhedra_library::Uint32_Box::Uint32_Box (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.58 parma_polyhedra_library::Uint32_Box::Uint32_Box (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.59 parma_polyhedra_library::Uint32_Box::Uint32_Box (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.60 parma_polyhedra_library::Uint32_Box::Uint32_Box (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.61 parma_polyhedra_library::Uint32_Box::Uint32_Box (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.62 parma_polyhedra_library::Uint32_Box::Uint32_Box (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.63 parma_polyhedra_library::Uint32_Box::Uint32_Box (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.64 parma_polyhedra_library::Uint32_Box::Uint32_Box (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.65 parma_polyhedra_library::Uint32_Box::Uint32_Box (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.66 parma_polyhedra_library::Uint32_Box::Uint32_Box (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.67 parma_polyhedra_library::Uint32_Box::Uint32_Box (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.68 parma_polyhedra_library::Uint32_Box::Uint32_Box (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.69 parma_polyhedra_library::Uint32_Box::Uint32_Box (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.70 parma_polyhedra_library::Uint32_Box::Uint32_Box (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.71 parma_polyhedra_library::Uint32_Box::Uint32_Box (Constraint_System *cs*) [inline]

Definition at line 334 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.72 parma_polyhedra_library::Uint32_Box::Uint32_Box (Congruence_System *cs*) [inline]

Definition at line 338 of file Uint32_Box.java.

References build_cpp_object().

11.147.2.73 parma_polyhedra_library::Uint32_Box::Uint32_Box (Generator_System *cs*) [inline]

Definition at line 342 of file Uint32_Box.java.

References build_cpp_object().

11.147.3 Member Function Documentation

11.147.3.1 native void parma_polyhedra_library::Uint32_Box::add_congruence (Congruence *c*)

11.147.3.2 native void parma_polyhedra_library::Uint32_Box::add_congruences (Congruence_System *c*)

11.147.3.3 native void parma_polyhedra_library::Uint32_Box::add_constraint (Constraint *c*)

11.147.3.4 native void parma_polyhedra_library::Uint32_Box::add_constraints (Constraint_System *c*)

11.147.3.5 native void parma_polyhedra_library::Uint32_Box::add_space_dimensions_and_embed (long *m*)

11.147.3.6 native void parma_polyhedra_library::Uint32_Box::add_space_dimensions_and_project (long *m*)

11.147.3.7 native long parma_polyhedra_library::Uint32_Box::affine_dimension ()

11.147.3.8 native void parma_polyhedra_library::Uint32_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.147.3.9 native void parma_polyhedra_library::Uint32_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.147.3.10 native String parma_polyhedra_library::Uint32_Box::ascii_dump ()

11.147.3.11 native void parma_polyhedra_library::Uint32_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.147.3.12 native void parma_polyhedra_library::Uint32_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.147.3.13 native boolean parma_polyhedra_library::Uint32_Box::bounds_from_above (Linear_Expression *expr*)

11.147.3.14 native boolean parma_polyhedra_library::Uint32_Box::bounds_from_below (Linear_Expression *expr*)

11.147.3.15 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.147.3.16 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.147.3.17 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.147.3.18 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (BD_Shape_long_double *y*) `[private]`

11.147.3.19 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) `[private]`

11.147.3.20 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Long_Double_Box *y*) [private]

11.147.3.21 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.147.3.22 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.147.3.23 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.147.3.24 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (BD_Shape_double *y*) [private]

11.147.3.25 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.147.3.26 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Double_Box *y*) [private]

11.147.3.27 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.147.3.28 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.147.3.29 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.147.3.30 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (BD_Shape_float *y*) [private]

11.147.3.31 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.147.3.32 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Float_Box *y*) [private]

11.147.3.33 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.147.3.34 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Grid *y*) [private]

11.147.3.35 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.147.3.36 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (NNC_Polyhedron *y*) [private]

11.147.3.37 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.147.3.38 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (C_Polyhedron *y*) [private]

11.147.3.39 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.147.3.40 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.147.3.41 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.147.3.42 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.147.3.43 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.147.3.44 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.147.3.45 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.147.3.46 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.147.3.47 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.147.3.48 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.147.3.49 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.147.3.50 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.147.3.51 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.147.3.52 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.147.3.53 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.147.3.54 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.147.3.55 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.147.3.56 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.147.3.57 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.147.3.58 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.147.3.59 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.147.3.60 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.147.3.61 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.147.3.62 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.147.3.63 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.147.3.64 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Rational_Box *y*) [private]

11.147.3.65 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.147.3.66 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Z_Box *y*) [private]

11.147.3.67 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.147.3.68 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Uint64_Box *y*) [private]

11.147.3.69 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.147.3.70 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Uint32_Box *y*) [private]

11.147.3.71 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.147.3.72 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Uint16_Box *y*) [private]

11.147.3.73 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.147.3.74 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Uint8_Box *y*) [private]

11.147.3.75 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.147.3.76 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Int64_Box *y*) [private]

11.147.3.77 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.147.3.78 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Int32_Box *y*) [private]

11.147.3.79 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.147.3.80 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Int16_Box *y*) [private]

11.147.3.81 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.147.3.82 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Int8_Box *y*) [private]

11.147.3.83 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.147.3.84 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Generator_System *cs*) [private]

11.147.3.85 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Congruence_System *cs*) [private]

11.147.3.86 native void parma_polyhedra_library::Uint32_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Uint32_Box().

11.147.3.87 native void parma_polyhedra_library::Uint32_Box::CC76_widening_assign (Uint32_Box *y*, By_Reference< Integer > *tp*)

11.147.3.88 native void parma_polyhedra_library::Uint32_Box::concatenate_assign (Uint32_Box *p*)

11.147.3.89 native Congruence_System parma_polyhedra_library::Uint32_Box::congruences ()

11.147.3.90 native boolean parma_polyhedra_library::Uint32_Box::constrains (Variable *var*)

11.147.3.91 native Constraint_System parma_polyhedra_library::Uint32_Box::constraints ()

11.147.3.92 native boolean parma_polyhedra_library::Uint32_Box::contains (Uint32_Box *y*)

11.147.3.93 native boolean parma_polyhedra_library::Uint32_Box::contains_integer_point ()

11.147.3.94 native void parma_polyhedra_library::Uint32_Box::difference_assign (Uint32_Box *p*)

11.147.3.95 native void parma_polyhedra_library::Uint32_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.147.3.96 native void parma_polyhedra_library::Uint32_Box::drop_some_non_integer_points_-2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.147.3.97 boolean parma_polyhedra_library::Uint32_Box::equals (Object *y*) `[inline]`

Definition at line 465 of file Uint32_Box.java.

References equals().

11.147.3.98 native boolean parma_polyhedra_library::Uint32_Box::equals (Uint32_Box *p*)

Referenced by equals().

11.147.3.99 native void parma_polyhedra_library::Uint32_Box::expand_space_dimension (Variable *var*, long *m*)

11.147.3.100 native long parma_polyhedra_library::Uint32_Box::external_memory_in_bytes ()

11.147.3.101 native void parma_polyhedra_library::Uint32_Box::finalize () `[protected]`

11.147.3.102 native void parma_polyhedra_library::Uint32_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.147.3.103 native void parma_polyhedra_library::Uint32_Box::free ()

11.147.3.104 native boolean parma_polyhedra_library::Uint32_Box::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.147.3.105 native void parma_polyhedra_library::Uint32_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.147.3.106 native void parma_polyhedra_library::Uint32_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.147.3.107 native void parma_polyhedra_library::Uint32_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.147.3.108 native void parma_polyhedra_library::Uint32_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.147.3.109 native void parma_polyhedra_library::Uint32_Box::intersection_assign (Uint32_Box *p*)

11.147.3.110 native boolean parma_polyhedra_library::Uint32_Box::is_bounded ()

11.147.3.111 native boolean parma_polyhedra_library::Uint32_Box::is_discrete ()

11.147.3.112 native boolean parma_polyhedra_library::Uint32_Box::is_disjoint_from (Uint32_Box *y*)

11.147.3.113 native boolean parma_polyhedra_library::Uint32_Box::is_empty ()

11.147.3.114 native boolean parma_polyhedra_library::Uint32_Box::is_topologically_closed ()

11.147.3.115 native boolean parma_polyhedra_library::Uint32_Box::is_universe ()

11.147.3.116 native void parma_polyhedra_library::Uint32_Box::limited_CC76_extrapolation_assign (Uint32_Box *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.147.3.117 static native Pair<Uint32_Box, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Uint32_Box::linear_partition (Uint32_Box *p*, Uint32_Box *q*) `[static]`

11.147.3.118 native void parma_polyhedra_library::Uint32_Box::map_space_dimensions (Partial_Function *pfunc*)

11.147.3.119 native boolean parma_polyhedra_library::Uint32_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.147.3.120 native boolean parma_polyhedra_library::Uint32_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.147.3.121 native boolean parma_polyhedra_library::Uint32_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.147.3.122 native boolean parma_polyhedra_library::Uint32_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.147.3.123 native Congruence_System parma_polyhedra_library::Uint32_Box::minimized_congruences ()

11.147.3.124 native Constraint_System parma_polyhedra_library::Uint32_Box::minimized_constraints ()

11.147.3.125 native boolean parma_polyhedra_library::Uint32_Box::OK ()

11.147.3.126 native void parma_polyhedra_library::Uint32_Box::refine_with_congruence (Congruence *c*)

11.147.3.127 native void parma_polyhedra_library::Uint32_Box::refine_with_congruences (Congruence_System *c*)

11.147.3.128 native void parma_polyhedra_library::Uint32_Box::refine_with_constraint (Constraint *c*)

11.147.3.129 native void parma_polyhedra_library::Uint32_Box::refine_with_constraints (Constraint_System *c*)

11.147.3.130 native Poly_Con_Relation parma_polyhedra_library::Uint32_Box::relation_with (Congruence *c*)

11.147.3.131 native Poly_Gen_Relation parma_polyhedra_library::Uint32_Box::relation_with (Generator *c*)

11.147.3.132 native Poly_Con_Relation parma_polyhedra_library::Uint32_Box::relation_with (Constraint *c*)

11.147.3.133 native void parma_polyhedra_library::Uint32_Box::remove_higher_space_dimensions (long *new_dimension*)

11.147.3.134 native void parma_polyhedra_library::Uint32_Box::remove_space_dimensions (Variables_Set *vars*)

11.147.3.135 native boolean parma_polyhedra_library::Uint32_Box::simplify_using_context_assign (Uint32_Box *p*)

11.147.3.136 native long parma_polyhedra_library::Uint32_Box::space_dimension ()

11.147.3.137 native boolean parma_polyhedra_library::Uint32_Box::strictly_contains (Uint32_Box *y*)

11.147.3.138 native void parma_polyhedra_library::Uint32_Box::swap (Uint32_Box *y*)

11.147.3.139 native void parma_polyhedra_library::Uint32_Box::time_elapse_assign (Uint32_Box *p*)

11.147.3.140 native void parma_polyhedra_library::Uint32_Box::topological_closure_assign ()

11.147.3.141 native String parma_polyhedra_library::Uint32_Box::toString ()

11.147.3.142 native long parma_polyhedra_library::Uint32_Box::total_memory_in_bytes ()

11.147.3.143 native void parma_polyhedra_library::Uint32_Box::unconstrain_space_dimension (Variable *var*)

11.147.3.144 native void parma_polyhedra_library::Uint32_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.147.3.145 native void parma_polyhedra_library::Uint32_Box::upper_bound_assign (Uint32_Box *p*)

11.147.3.146 native boolean parma_polyhedra_library::Uint32_Box::upper_bound_assign_if_exact (Uint32_Box *y*)

11.147.3.147 native void parma_polyhedra_library::Uint32_Box::widening_assign (Uint32_Box *y*, By_Reference< Integer > *tp*)

11.147.3.148 native void parma_polyhedra_library::Uint32_Box::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

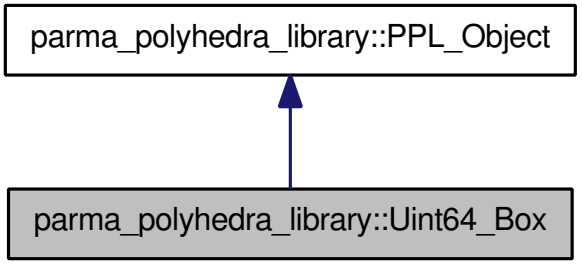
The documentation for this class was generated from the following file:

- Uint32_Box.java

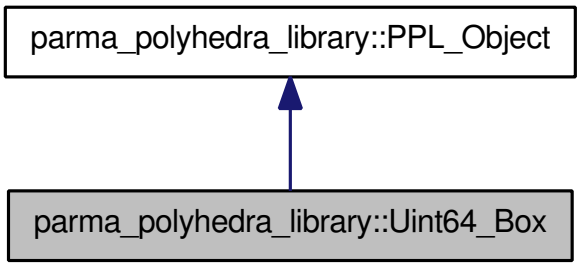
11.148 parma_polyhedra_library::Uint64_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Uint64_Box.

Inheritance diagram for parma_polyhedra_library::Uint64_Box:



Collaboration diagram for parma_polyhedra_library::Uint64_Box:



Public Member Functions

- Uint64_Box (long num_dimensions, Degenerate_Element kind)
- Uint64_Box (Int8_Box y)
- Uint64_Box (Int16_Box y)
- Uint64_Box (Int32_Box y)
- Uint64_Box (Int64_Box y)
- Uint64_Box (Uint8_Box y)
- Uint64_Box (Uint16_Box y)
- Uint64_Box (Uint32_Box y)
- Uint64_Box (Uint64_Box y)
- Uint64_Box (Z_Box y)
- Uint64_Box (Rational_Box y)
- Uint64_Box (BD_Shape_int8_t y)
- Uint64_Box (BD_Shape_int16_t y)
- Uint64_Box (BD_Shape_int32_t y)
- Uint64_Box (BD_Shape_int64_t y)
- Uint64_Box (BD_Shape_mpz_class y)
- Uint64_Box (BD_Shape_mpq_class y)
- Uint64_Box (Octagonal_Shape_int8_t y)
- Uint64_Box (Octagonal_Shape_int16_t y)
- Uint64_Box (Octagonal_Shape_int32_t y)

- Uint64_Box (Octagonal_Shape_int64_t y)
- Uint64_Box (Octagonal_Shape_mpz_class y)
- Uint64_Box (Octagonal_Shape_mpq_class y)
- Uint64_Box (C_Polyhedron y)
- Uint64_Box (NNC_Polyhedron y)
- Uint64_Box (Grid y)
- Uint64_Box (Float_Box y)
- Uint64_Box (BD_Shape_float y)
- Uint64_Box (Octagonal_Shape_float y)
- Uint64_Box (Double_Box y)
- Uint64_Box (BD_Shape_double y)
- Uint64_Box (Octagonal_Shape_double y)
- Uint64_Box (Long_Double_Box y)
- Uint64_Box (BD_Shape_long_double y)
- Uint64_Box (Octagonal_Shape_long_double y)
- Uint64_Box (Int8_Box y, Complexity_Class complexity)
- Uint64_Box (Int16_Box y, Complexity_Class complexity)
- Uint64_Box (Int32_Box y, Complexity_Class complexity)
- Uint64_Box (Int64_Box y, Complexity_Class complexity)
- Uint64_Box (Uint8_Box y, Complexity_Class complexity)
- Uint64_Box (Uint16_Box y, Complexity_Class complexity)
- Uint64_Box (Uint32_Box y, Complexity_Class complexity)
- Uint64_Box (Uint64_Box y, Complexity_Class complexity)
- Uint64_Box (Z_Box y, Complexity_Class complexity)
- Uint64_Box (Rational_Box y, Complexity_Class complexity)
- Uint64_Box (BD_Shape_int8_t y, Complexity_Class complexity)
- Uint64_Box (BD_Shape_int16_t y, Complexity_Class complexity)
- Uint64_Box (BD_Shape_int32_t y, Complexity_Class complexity)
- Uint64_Box (BD_Shape_int64_t y, Complexity_Class complexity)
- Uint64_Box (BD_Shape_mpz_class y, Complexity_Class complexity)
- Uint64_Box (BD_Shape_mpq_class y, Complexity_Class complexity)
- Uint64_Box (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Uint64_Box (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Uint64_Box (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Uint64_Box (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Uint64_Box (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Uint64_Box (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Uint64_Box (C_Polyhedron y, Complexity_Class complexity)
- Uint64_Box (NNC_Polyhedron y, Complexity_Class complexity)
- Uint64_Box (Grid y, Complexity_Class complexity)
- Uint64_Box (Float_Box y, Complexity_Class complexity)
- Uint64_Box (BD_Shape_float y, Complexity_Class complexity)
- Uint64_Box (Octagonal_Shape_float y, Complexity_Class complexity)
- Uint64_Box (Double_Box y, Complexity_Class complexity)
- Uint64_Box (BD_Shape_double y, Complexity_Class complexity)
- Uint64_Box (Octagonal_Shape_double y, Complexity_Class complexity)
- Uint64_Box (Long_Double_Box y, Complexity_Class complexity)
- Uint64_Box (BD_Shape_long_double y, Complexity_Class complexity)
- Uint64_Box (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Uint64_Box (Constraint_System cs)

- Uint64_Box (Congruence_System cs)
- Uint64_Box (Generator_System cs)
- native void swap (Uint64_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Uint64_Box y)
- native boolean strictly_contains (Uint64_Box y)
- native boolean is_disjoint_from (Uint64_Box y)
- native boolean equals (Uint64_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Uint64_Box p)
- native void upper_bound_assign (Uint64_Box p)
- native void difference_assign (Uint64_Box p)
- native void concatenate_assign (Uint64_Box p)
- native void time_elapse_assign (Uint64_Box p)

- native boolean upper_bound_assign_if_exact (Uint64_Box y)
- native boolean simplify_using_context_assign (Uint64_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void CC76_widening_assign (Uint64_Box y, By_Reference< Integer > tp)
- native void widening_assign (Uint64_Box y, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Uint64_Box y, Constraint_System cs, By_Reference< Integer > tp)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native String toString ()

Static Public Member Functions

- static native Pair< Uint64_Box, Pointset_Powerset_NNC_Polyhedron > linear_partition (Uint64_Box p, Uint64_Box q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Uint64_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)

- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.148.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Uint64_Box.

Definition at line 33 of file Uint64_Box.java.

11.148.2 Constructor & Destructor Documentation

11.148.2.1 parma_polyhedra_library::Uint64_Box::Uint64_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.2 parma_polyhedra_library::Uint64_Box::Uint64_Box () [inline, private]

Definition at line 45 of file Uint64_Box.java.

11.148.2.3 parma_polyhedra_library::Uint64_Box::Uint64_Box (Int8_Box *y*) [inline]

Definition at line 52 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.4 parma_polyhedra_library::Uint64_Box::Uint64_Box (Int16_Box *y*) [inline]

Definition at line 56 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.5 parma_polyhedra_library::Uint64_Box::Uint64_Box (Int32_Box *y*) [inline]

Definition at line 60 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.6 parma_polyhedra_library::Uint64_Box::Uint64_Box (Int64_Box *y*) [inline]

Definition at line 64 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.7 parma_polyhedra_library::Uint64_Box::Uint64_Box (Uint8_Box *y*) [inline]

Definition at line 68 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.8 parma_polyhedra_library::Uint64_Box::Uint64_Box (Uint16_Box *y*) [inline]

Definition at line 72 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.9 parma_polyhedra_library::Uint64_Box::Uint64_Box (Uint32_Box *y*) [inline]

Definition at line 76 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.10 parma_polyhedra_library::Uint64_Box::Uint64_Box (Uint64_Box *y*) [inline]

Definition at line 80 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.11 parma_polyhedra_library::Uint64_Box::Uint64_Box (Z_Box *y*) [inline]

Definition at line 84 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.12 parma_polyhedra_library::Uint64_Box::Uint64_Box (Rational_Box *y*) [inline]

Definition at line 88 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.13 parma_polyhedra_library::Uint64_Box::Uint64_Box (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.14 parma_polyhedra_library::Uint64_Box::Uint64_Box (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.15 parma_polyhedra_library::Uint64_Box::Uint64_Box (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.16 parma_polyhedra_library::Uint64_Box::Uint64_Box (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.17 parma_polyhedra_library::Uint64_Box::Uint64_Box (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.18 parma_polyhedra_library::Uint64_Box::Uint64_Box (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.19 parma_polyhedra_library::Uint64_Box::Uint64_Box (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.20 parma_polyhedra_library::Uint64_Box::Uint64_Box (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.21 parma_polyhedra_library::Uint64_Box::Uint64_Box (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.22 parma_polyhedra_library::Uint64_Box::Uint64_Box (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.23 parma_polyhedra_library::Uint64_Box::Uint64_Box (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.24 parma_polyhedra_library::Uint64_Box::Uint64_Box (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.25 parma_polyhedra_library::Uint64_Box::Uint64_Box (C_Polyhedron *y*) [inline]

Definition at line 140 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.26 parma_polyhedra_library::Uint64_Box::Uint64_Box (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.27 parma_polyhedra_library::Uint64_Box::Uint64_Box (Grid *y*) [inline]

Definition at line 148 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.28 parma_polyhedra_library::Uint64_Box::Uint64_Box (Float_Box *y*) [inline]

Definition at line 152 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.29 parma_polyhedra_library::Uint64_Box::Uint64_Box (BD_Shape_float *y*) [inline]

Definition at line 156 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.30 parma_polyhedra_library::Uint64_Box::Uint64_Box (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.31 parma_polyhedra_library::Uint64_Box::Uint64_Box (Double_Box *y*) [inline]

Definition at line 164 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.32 parma_polyhedra_library::Uint64_Box::Uint64_Box (BD_Shape_double *y*) [inline]

Definition at line 168 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.33 parma_polyhedra_library::Uint64_Box::Uint64_Box (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.34 parma_polyhedra_library::Uint64_Box::Uint64_Box (Long_Double_Box *y*) [inline]

Definition at line 176 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.35 parma_polyhedra_library::Uint64_Box::Uint64_Box (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.36 parma_polyhedra_library::Uint64_Box::Uint64_Box (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.37 parma_polyhedra_library::Uint64_Box::Uint64_Box (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.38 parma_polyhedra_library::Uint64_Box::Uint64_Box (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.39 parma_polyhedra_library::Uint64_Box::Uint64_Box (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.40 parma_polyhedra_library::Uint64_Box::Uint64_Box (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.41 parma_polyhedra_library::Uint64_Box::Uint64_Box (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.42 parma_polyhedra_library::Uint64_Box::Uint64_Box (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.43 parma_polyhedra_library::Uint64_Box::Uint64_Box (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.44 parma_polyhedra_library::Uint64_Box::Uint64_Box (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.45 parma_polyhedra_library::Uint64_Box::Uint64_Box (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.46 parma_polyhedra_library::Uint64_Box::Uint64_Box (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.47 parma_polyhedra_library::Uint64_Box::Uint64_Box (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.48 parma_polyhedra_library::Uint64_Box::Uint64_Box (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.49 parma_polyhedra_library::Uint64_Box::Uint64_Box (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.50 parma_polyhedra_library::Uint64_Box::Uint64_Box (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.51 parma_polyhedra_library::Uint64_Box::Uint64_Box (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.52 parma_polyhedra_library::Uint64_Box::Uint64_Box (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.53 parma_polyhedra_library::Uint64_Box::Uint64_Box (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.54 parma_polyhedra_library::Uint64_Box::Uint64_Box (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.55 parma_polyhedra_library::Uint64_Box::Uint64_Box (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.56 parma_polyhedra_library::Uint64_Box::Uint64_Box (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.57 parma_polyhedra_library::Uint64_Box::Uint64_Box (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.58 parma_polyhedra_library::Uint64_Box::Uint64_Box (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.59 parma_polyhedra_library::Uint64_Box::Uint64_Box (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.60 parma_polyhedra_library::Uint64_Box::Uint64_Box (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.61 parma_polyhedra_library::Uint64_Box::Uint64_Box (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.62 parma_polyhedra_library::Uint64_Box::Uint64_Box (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.63 parma_polyhedra_library::Uint64_Box::Uint64_Box (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.64 parma_polyhedra_library::Uint64_Box::Uint64_Box (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.65 parma_polyhedra_library::Uint64_Box::Uint64_Box (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.66 parma_polyhedra_library::Uint64_Box::Uint64_Box (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.67 parma_polyhedra_library::Uint64_Box::Uint64_Box (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.68 parma_polyhedra_library::Uint64_Box::Uint64_Box (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.69 parma_polyhedra_library::Uint64_Box::Uint64_Box (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.70 parma_polyhedra_library::Uint64_Box::Uint64_Box (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.71 parma_polyhedra_library::Uint64_Box::Uint64_Box (Constraint_System *cs*) [inline]

Definition at line 334 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.72 parma_polyhedra_library::Uint64_Box::Uint64_Box (Congruence_System *cs*) [inline]

Definition at line 338 of file Uint64_Box.java.

References build_cpp_object().

11.148.2.73 parma_polyhedra_library::Uint64_Box::Uint64_Box (Generator_System *cs*) [inline]

Definition at line 342 of file Uint64_Box.java.

References build_cpp_object().

11.148.3 Member Function Documentation

11.148.3.1 native void parma_polyhedra_library::Uint64_Box::add_congruence (Congruence *c*)

11.148.3.2 native void parma_polyhedra_library::Uint64_Box::add_congruences (Congruence_System *c*)

11.148.3.3 native void parma_polyhedra_library::Uint64_Box::add_constraint (Constraint *c*)

11.148.3.4 native void parma_polyhedra_library::Uint64_Box::add_constraints (Constraint_System *c*)

11.148.3.5 native void parma_polyhedra_library::Uint64_Box::add_space_dimensions_and_embed (long *m*)

11.148.3.6 native void parma_polyhedra_library::Uint64_Box::add_space_dimensions_and_project (long *m*)

11.148.3.7 native long parma_polyhedra_library::Uint64_Box::affine_dimension ()

11.148.3.8 native void parma_polyhedra_library::Uint64_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.148.3.9 native void parma_polyhedra_library::Uint64_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.148.3.10 native String parma_polyhedra_library::Uint64_Box::ascii_dump ()

11.148.3.11 native void parma_polyhedra_library::Uint64_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.148.3.12 native void parma_polyhedra_library::Uint64_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.148.3.13 native boolean parma_polyhedra_library::Uint64_Box::bounds_from_above (Linear_Expression *expr*)

11.148.3.14 native boolean parma_polyhedra_library::Uint64_Box::bounds_from_below (Linear_Expression *expr*)

11.148.3.15 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.148.3.16 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Octagonal_Shape_long_double *y*) [private]

11.148.3.17 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) [private]

11.148.3.18 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (BD_Shape_long_double *y*) [private]

11.148.3.19 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) [private]

11.148.3.20 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Long_Double_Box *y*) [private]

11.148.3.21 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.148.3.22 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.148.3.23 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.148.3.24 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (BD_Shape_double *y*) [private]

11.148.3.25 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.148.3.26 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Double_Box *y*) [private]

11.148.3.27 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.148.3.28 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.148.3.29 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.148.3.30 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (BD_Shape_float *y*) [private]

11.148.3.31 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.148.3.32 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Float_Box *y*) [private]

11.148.3.33 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.148.3.34 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Grid *y*) [private]

11.148.3.35 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.148.3.36 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (NNC_Polyhedron *y*) [private]

11.148.3.37 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.148.3.38 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (C_Polyhedron *y*) [private]

11.148.3.39 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.148.3.40 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.148.3.41 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.148.3.42 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.148.3.43 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.148.3.44 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.148.3.45 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.148.3.46 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.148.3.47 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.148.3.48 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.148.3.49 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.148.3.50 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.148.3.51 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.148.3.52 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.148.3.53 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.148.3.54 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.148.3.55 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.148.3.56 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.148.3.57 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.148.3.58 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.148.3.59 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.148.3.60 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.148.3.61 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.148.3.62 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.148.3.63 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.148.3.64 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Rational_Box *y*) [private]

11.148.3.65 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.148.3.66 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Z_Box *y*) [private]

11.148.3.67 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.148.3.68 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Uint64_Box *y*) [private]

11.148.3.69 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.148.3.70 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Uint32_Box *y*) [private]

11.148.3.71 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.148.3.72 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Uint16_Box *y*) [private]

11.148.3.73 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.148.3.74 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Uint8_Box *y*) [private]

11.148.3.75 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.148.3.76 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Int64_Box *y*) [private]

11.148.3.77 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.148.3.78 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Int32_Box *y*) [private]

11.148.3.79 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.148.3.80 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Int16_Box *y*) [private]

11.148.3.81 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.148.3.82 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Int8_Box *y*) [private]

11.148.3.83 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.148.3.84 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Generator_System *cs*) [private]

11.148.3.85 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Congruence_System *cs*) [private]

11.148.3.86 native void parma_polyhedra_library::Uint64_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Uint64_Box().

11.148.3.87 native void parma_polyhedra_library::Uint64_Box::CC76_widening_assign (Uint64_Box *y*, By_Reference< Integer > *tp*)

11.148.3.88 native void parma_polyhedra_library::Uint64_Box::concatenate_assign (Uint64_Box *p*)

11.148.3.89 native Congruence_System parma_polyhedra_library::Uint64_Box::congruences ()

11.148.3.90 native boolean parma_polyhedra_library::Uint64_Box::constrains (Variable *var*)

11.148.3.91 native Constraint_System parma_polyhedra_library::Uint64_Box::constraints ()

11.148.3.92 native boolean parma_polyhedra_library::Uint64_Box::contains (Uint64_Box *y*)

11.148.3.93 native boolean parma_polyhedra_library::Uint64_Box::contains_integer_point ()

11.148.3.94 native void parma_polyhedra_library::Uint64_Box::difference_assign (Uint64_Box *p*)

11.148.3.95 native void parma_polyhedra_library::Uint64_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.148.3.96 native void parma_polyhedra_library::Uint64_Box::drop_some_non_integer_points_-2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.148.3.97 boolean parma_polyhedra_library::Uint64_Box::equals (Object *y*) [inline]

Definition at line 465 of file Uint64_Box.java.

References equals().

11.148.3.98 native boolean parma_polyhedra_library::Uint64_Box::equals (Uint64_Box *p*)

Referenced by equals().

11.148.3.99 native void parma_polyhedra_library::Uint64_Box::expand_space_dimension (Variable *var*, long *m*)

11.148.3.100 native long parma_polyhedra_library::Uint64_Box::external_memory_in_bytes ()

11.148.3.101 native void parma_polyhedra_library::Uint64_Box::finalize () [protected]

11.148.3.102 native void parma_polyhedra_library::Uint64_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.148.3.103 native void parma_polyhedra_library::Uint64_Box::free ()

11.148.3.104 native boolean parma_polyhedra_library::Uint64_Box::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.148.3.105 native void parma_polyhedra_library::Uint64_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.148.3.106 native void parma_polyhedra_library::Uint64_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.148.3.107 native void parma_polyhedra_library::Uint64_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.148.3.108 native void parma_polyhedra_library::Uint64_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.148.3.109 native void parma_polyhedra_library::Uint64_Box::intersection_assign (Uint64_Box *p*)

11.148.3.110 native boolean parma_polyhedra_library::Uint64_Box::is_bounded ()

11.148.3.111 native boolean parma_polyhedra_library::Uint64_Box::is_discrete ()

11.148.3.112 native boolean parma_polyhedra_library::Uint64_Box::is_disjoint_from (Uint64_Box *y*)

11.148.3.113 native boolean parma_polyhedra_library::Uint64_Box::is_empty ()

11.148.3.114 native boolean parma_polyhedra_library::Uint64_Box::is_topologically_closed ()

11.148.3.115 native boolean parma_polyhedra_library::Uint64_Box::is_universe ()

11.148.3.116 native void parma_polyhedra_library::Uint64_Box::limited_CC76_extrapolation_-assign (Uint64_Box *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.148.3.117 static native Pair<Uint64_Box, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Uint64_Box::linear_partition (Uint64_Box *p*, Uint64_Box *q*) `[static]`

11.148.3.118 native void parma_polyhedra_library::Uint64_Box::map_space_dimensions (Partial_Function *pfunc*)

11.148.3.119 native boolean parma_polyhedra_library::Uint64_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.148.3.120 native boolean parma_polyhedra_library::Uint64_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.148.3.121 native boolean parma_polyhedra_library::Uint64_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.148.3.122 native boolean parma_polyhedra_library::Uint64_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.148.3.123 native Congruence_System parma_polyhedra_library::Uint64_Box::minimized_-congruences ()

11.148.3.124 native Constraint_System parma_polyhedra_library::Uint64_Box::minimized_constraints ()

11.148.3.125 native boolean parma_polyhedra_library::Uint64_Box::OK ()

11.148.3.126 native void parma_polyhedra_library::Uint64_Box::refine_with_congruence (Congruence *c*)

11.148.3.127 native void parma_polyhedra_library::Uint64_Box::refine_with_congruences (Congruence_System *c*)

11.148.3.128 native void parma_polyhedra_library::Uint64_Box::refine_with_constraint (Constraint *c*)

11.148.3.129 native void parma_polyhedra_library::Uint64_Box::refine_with_constraints (Constraint_System *c*)

11.148.3.130 native Poly_Con_Relation parma_polyhedra_library::Uint64_Box::relation_with (Congruence *c*)

11.148.3.131 native Poly_Gen_Relation parma_polyhedra_library::Uint64_Box::relation_with (Generator *c*)

11.148.3.132 native Poly_Con_Relation parma_polyhedra_library::Uint64_Box::relation_with (Constraint *c*)

11.148.3.133 native void parma_polyhedra_library::Uint64_Box::remove_higher_space_dimensions (long *new_dimension*)

11.148.3.134 native void parma_polyhedra_library::Uint64_Box::remove_space_dimensions (Variables_Set *vars*)

11.148.3.135 native boolean parma_polyhedra_library::Uint64_Box::simplify_using_context_-assign (Uint64_Box *p*)

11.148.3.136 native long parma_polyhedra_library::Uint64_Box::space_dimension ()

11.148.3.137 native boolean parma_polyhedra_library::Uint64_Box::strictly_contains (Uint64_Box *y*)

11.148.3.138 native void parma_polyhedra_library::Uint64_Box::swap (Uint64_Box *y*)

11.148.3.139 native void parma_polyhedra_library::Uint64_Box::time_elapse_assign (Uint64_Box *p*)

11.148.3.140 native void parma_polyhedra_library::Uint64_Box::topological_closure_assign ()

11.148.3.141 native String parma_polyhedra_library::Uint64_Box::toString ()

11.148.3.142 native long parma_polyhedra_library::Uint64_Box::total_memory_in_bytes ()

11.148.3.143 native void parma_polyhedra_library::Uint64_Box::unconstrain_space_dimension (Variable *var*)

11.148.3.144 native void parma_polyhedra_library::Uint64_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.148.3.145 native void parma_polyhedra_library::Uint64_Box::upper_bound_assign (Uint64_Box *p*)

11.148.3.146 native boolean parma_polyhedra_library::Uint64_Box::upper_bound_assign_if_exact (Uint64_Box *y*)

11.148.3.147 native void parma_polyhedra_library::Uint64_Box::widening_assign (Uint64_Box *y*, By_Reference< Integer > *tp*)

11.148.3.148 native void parma_polyhedra_library::Uint64_Box::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

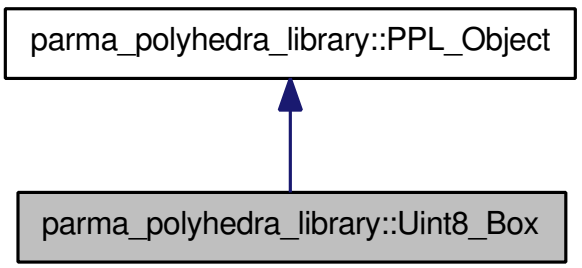
The documentation for this class was generated from the following file:

- Uint64_Box.java

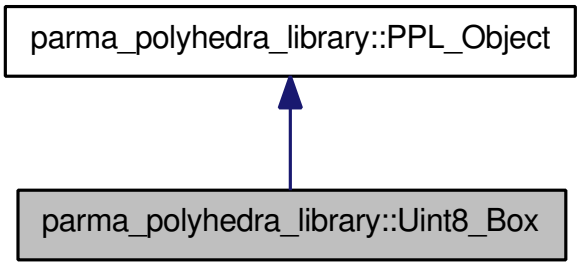
11.149 parma_polyhedra_library::Uint8_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Uint8_Box.

Inheritance diagram for parma_polyhedra_library::Uint8_Box:



Collaboration diagram for parma_polyhedra_library::Uint8_Box:



Public Member Functions

- Uint8_Box (long num_dimensions, Degenerate_Element kind)
- Uint8_Box (Int8_Box y)
- Uint8_Box (Int16_Box y)
- Uint8_Box (Int32_Box y)
- Uint8_Box (Int64_Box y)
- Uint8_Box (Uint8_Box y)
- Uint8_Box (Uint16_Box y)
- Uint8_Box (Uint32_Box y)
- Uint8_Box (Uint64_Box y)
- Uint8_Box (Z_Box y)
- Uint8_Box (Rational_Box y)
- Uint8_Box (BD_Shape_int8_t y)
- Uint8_Box (BD_Shape_int16_t y)
- Uint8_Box (BD_Shape_int32_t y)
- Uint8_Box (BD_Shape_int64_t y)
- Uint8_Box (BD_Shape_mpz_class y)
- Uint8_Box (BD_Shape_mpq_class y)
- Uint8_Box (Octagonal_Shape_int8_t y)
- Uint8_Box (Octagonal_Shape_int16_t y)
- Uint8_Box (Octagonal_Shape_int32_t y)
- Uint8_Box (Octagonal_Shape_int64_t y)
- Uint8_Box (Octagonal_Shape_mpz_class y)
- Uint8_Box (Octagonal_Shape_mpq_class y)
- Uint8_Box (C_Polyhedron y)
- Uint8_Box (NNC_Polyhedron y)
- Uint8_Box (Grid y)
- Uint8_Box (Float_Box y)
- Uint8_Box (BD_Shape_float y)
- Uint8_Box (Octagonal_Shape_float y)
- Uint8_Box (Double_Box y)
- Uint8_Box (BD_Shape_double y)
- Uint8_Box (Octagonal_Shape_double y)
- Uint8_Box (Long_Double_Box y)
- Uint8_Box (BD_Shape_long_double y)
- Uint8_Box (Octagonal_Shape_long_double y)
- Uint8_Box (Int8_Box y, Complexity_Class complexity)

- Uint8_Box (Int16_Box y, Complexity_Class complexity)
- Uint8_Box (Int32_Box y, Complexity_Class complexity)
- Uint8_Box (Int64_Box y, Complexity_Class complexity)
- Uint8_Box (Uint8_Box y, Complexity_Class complexity)
- Uint8_Box (Uint16_Box y, Complexity_Class complexity)
- Uint8_Box (Uint32_Box y, Complexity_Class complexity)
- Uint8_Box (Uint64_Box y, Complexity_Class complexity)
- Uint8_Box (Z_Box y, Complexity_Class complexity)
- Uint8_Box (Rational_Box y, Complexity_Class complexity)
- Uint8_Box (BD_Shape_int8_t y, Complexity_Class complexity)
- Uint8_Box (BD_Shape_int16_t y, Complexity_Class complexity)
- Uint8_Box (BD_Shape_int32_t y, Complexity_Class complexity)
- Uint8_Box (BD_Shape_int64_t y, Complexity_Class complexity)
- Uint8_Box (BD_Shape_mpz_class y, Complexity_Class complexity)
- Uint8_Box (BD_Shape_mpq_class y, Complexity_Class complexity)
- Uint8_Box (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Uint8_Box (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Uint8_Box (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Uint8_Box (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Uint8_Box (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Uint8_Box (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Uint8_Box (C_Polyhedron y, Complexity_Class complexity)
- Uint8_Box (NNC_Polyhedron y, Complexity_Class complexity)
- Uint8_Box (Grid y, Complexity_Class complexity)
- Uint8_Box (Float_Box y, Complexity_Class complexity)
- Uint8_Box (BD_Shape_float y, Complexity_Class complexity)
- Uint8_Box (Octagonal_Shape_float y, Complexity_Class complexity)
- Uint8_Box (Double_Box y, Complexity_Class complexity)
- Uint8_Box (BD_Shape_double y, Complexity_Class complexity)
- Uint8_Box (Octagonal_Shape_double y, Complexity_Class complexity)
- Uint8_Box (Long_Double_Box y, Complexity_Class complexity)
- Uint8_Box (BD_Shape_long_double y, Complexity_Class complexity)
- Uint8_Box (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Uint8_Box (Constraint_System cs)
- Uint8_Box (Congruence_System cs)
- Uint8_Box (Generator_System cs)
- native void swap (Uint8_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()

- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Uint8_Box y)
- native boolean strictly_contains (Uint8_Box y)
- native boolean is_disjoint_from (Uint8_Box y)
- native boolean equals (Uint8_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Uint8_Box p)
- native void upper_bound_assign (Uint8_Box p)
- native void difference_assign (Uint8_Box p)
- native void concatenate_assign (Uint8_Box p)
- native void time_elapse_assign (Uint8_Box p)
- native boolean upper_bound_assign_if_exact (Uint8_Box y)
- native boolean simplify_using_context_assign (Uint8_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_-Expression rhs)

- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void CC76_widening_assign (Uint8_Box y, By_Reference< Integer > tp)
- native void widening_assign (Uint8_Box y, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Uint8_Box y, Constraint_System cs, By_Reference< Integer > tp)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native String toString ()

Static Public Member Functions

- static native Pair< Uint8_Box, Pointset_Powerset_NNC_Polyhedron > linear_partition (Uint8_Box p, Uint8_Box q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Uint8_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)

- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)
- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)

- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.149.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Uint8_Box.

Definition at line 33 of file Uint8_Box.java.

11.149.2 Constructor & Destructor Documentation

11.149.2.1 parma_polyhedra_library::Uint8_Box::Uint8_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.2 parma_polyhedra_library::Uint8_Box::Uint8_Box () [inline, private]

Definition at line 45 of file Uint8_Box.java.

11.149.2.3 parma_polyhedra_library::Uint8_Box::Uint8_Box (Int8_Box *y*) [inline]

Definition at line 52 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.4 parma_polyhedra_library::Uint8_Box::Uint8_Box (Int16_Box *y*) [inline]

Definition at line 56 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.5 parma_polyhedra_library::Uint8_Box::Uint8_Box (Int32_Box *y*) [inline]

Definition at line 60 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.6 parma_polyhedra_library::Uint8_Box::Uint8_Box (Int64_Box *y*) [inline]

Definition at line 64 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.7 parma_polyhedra_library::Uint8_Box::Uint8_Box (Uint8_Box *y*) [inline]

Definition at line 68 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.8 parma_polyhedra_library::Uint8_Box::Uint8_Box (Uint16_Box *y*) [inline]

Definition at line 72 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.9 parma_polyhedra_library::Uint8_Box::Uint8_Box (Uint32_Box *y*) [inline]

Definition at line 76 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.10 parma_polyhedra_library::Uint8_Box::Uint8_Box (Uint64_Box *y*) [inline]

Definition at line 80 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.11 parma_polyhedra_library::Uint8_Box::Uint8_Box (Z_Box *y*) [inline]

Definition at line 84 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.12 parma_polyhedra_library::Uint8_Box::Uint8_Box (Rational_Box *y*) [inline]

Definition at line 88 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.13 parma_polyhedra_library::Uint8_Box::Uint8_Box (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.14 parma_polyhedra_library::Uint8_Box::Uint8_Box (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.15 parma_polyhedra_library::Uint8_Box::Uint8_Box (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.16 parma_polyhedra_library::Uint8_Box::Uint8_Box (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.17 parma_polyhedra_library::Uint8_Box::Uint8_Box (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.18 parma_polyhedra_library::Uint8_Box::Uint8_Box (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.19 parma_polyhedra_library::Uint8_Box::Uint8_Box (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.20 parma_polyhedra_library::Uint8_Box::Uint8_Box (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.21 parma_polyhedra_library::Uint8_Box::Uint8_Box (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.22 parma_polyhedra_library::Uint8_Box::Uint8_Box (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.23 parma_polyhedra_library::Uint8_Box::Uint8_Box (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.24 parma_polyhedra_library::Uint8_Box::Uint8_Box (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.25 parma_polyhedra_library::Uint8_Box::Uint8_Box (C_Polyhedron *y*) [inline]

Definition at line 140 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.26 parma_polyhedra_library::Uint8_Box::Uint8_Box (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.27 parma_polyhedra_library::Uint8_Box::Uint8_Box (Grid *y*) [inline]

Definition at line 148 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.28 parma_polyhedra_library::Uint8_Box::Uint8_Box (Float_Box *y*) [inline]

Definition at line 152 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.29 parma_polyhedra_library::Uint8_Box::Uint8_Box (BD_Shape_float *y*) [inline]

Definition at line 156 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.30 parma_polyhedra_library::Uint8_Box::Uint8_Box (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.31 parma_polyhedra_library::Uint8_Box::Uint8_Box (Double_Box *y*) [inline]

Definition at line 164 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.32 parma_polyhedra_library::Uint8_Box::Uint8_Box (BD_Shape_double *y*) [inline]

Definition at line 168 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.33 parma_polyhedra_library::Uint8_Box::Uint8_Box (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.34 parma_polyhedra_library::Uint8_Box::Uint8_Box (Long_Double_Box *y*) [inline]

Definition at line 176 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.35 parma_polyhedra_library::Uint8_Box::Uint8_Box (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.36 parma_polyhedra_library::Uint8_Box::Uint8_Box (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.37 parma_polyhedra_library::Uint8_Box::Uint8_Box (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.38 parma_polyhedra_library::Uint8_Box::Uint8_Box (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.39 parma_polyhedra_library::Uint8_Box::Uint8_Box (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.40 parma_polyhedra_library::Uint8_Box::Uint8_Box (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.41 parma_polyhedra_library::Uint8_Box::Uint8_Box (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.42 parma_polyhedra_library::Uint8_Box::Uint8_Box (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.43 parma_polyhedra_library::Uint8_Box::Uint8_Box (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.44 parma_polyhedra_library::Uint8_Box::Uint8_Box (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.45 parma_polyhedra_library::Uint8_Box::Uint8_Box (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.46 parma_polyhedra_library::Uint8_Box::Uint8_Box (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.47 parma_polyhedra_library::Uint8_Box::Uint8_Box (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.48 parma_polyhedra_library::Uint8_Box::Uint8_Box (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.49 parma_polyhedra_library::Uint8_Box::Uint8_Box (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.50 parma_polyhedra_library::Uint8_Box::Uint8_Box (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.51 parma_polyhedra_library::Uint8_Box::Uint8_Box (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.52 parma_polyhedra_library::Uint8_Box::Uint8_Box (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.53 parma_polyhedra_library::Uint8_Box::Uint8_Box (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.54 parma_polyhedra_library::Uint8_Box::Uint8_Box (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.55 parma_polyhedra_library::Uint8_Box::Uint8_Box (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.56 parma_polyhedra_library::Uint8_Box::Uint8_Box (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.57 parma_polyhedra_library::Uint8_Box::Uint8_Box (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.58 parma_polyhedra_library::Uint8_Box::Uint8_Box (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.59 parma_polyhedra_library::Uint8_Box::Uint8_Box (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.60 parma_polyhedra_library::Uint8_Box::Uint8_Box (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.61 parma_polyhedra_library::Uint8_Box::Uint8_Box (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.62 parma_polyhedra_library::Uint8_Box::Uint8_Box (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.63 parma_polyhedra_library::Uint8_Box::Uint8_Box (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.64 parma_polyhedra_library::Uint8_Box::Uint8_Box (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.65 parma_polyhedra_library::Uint8_Box::Uint8_Box (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.66 parma_polyhedra_library::Uint8_Box::Uint8_Box (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.67 parma_polyhedra_library::Uint8_Box::Uint8_Box (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.68 parma_polyhedra_library::Uint8_Box::Uint8_Box (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.69 parma_polyhedra_library::Uint8_Box::Uint8_Box (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.70 parma_polyhedra_library::Uint8_Box::Uint8_Box (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.71 parma_polyhedra_library::Uint8_Box::Uint8_Box (Constraint_System *cs*) [inline]

Definition at line 334 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.72 parma_polyhedra_library::Uint8_Box::Uint8_Box (Congruence_System *cs*) [inline]

Definition at line 338 of file Uint8_Box.java.

References build_cpp_object().

11.149.2.73 parma_polyhedra_library::Uint8_Box::Uint8_Box (Generator_System *cs*) [inline]

Definition at line 342 of file Uint8_Box.java.

References build_cpp_object().

11.149.3 Member Function Documentation

11.149.3.1 native void parma_polyhedra_library::Uint8_Box::add_congruence (Congruence *c*)

11.149.3.2 native void parma_polyhedra_library::Uint8_Box::add_congruences (Congruence_System *c*)

11.149.3.3 native void parma_polyhedra_library::Uint8_Box::add_constraint (Constraint *c*)

11.149.3.4 native void parma_polyhedra_library::Uint8_Box::add_constraints (Constraint_System *c*)

11.149.3.5 native void parma_polyhedra_library::Uint8_Box::add_space_dimensions_and_embed (long *m*)

11.149.3.6 native void parma_polyhedra_library::Uint8_Box::add_space_dimensions_and_project (long *m*)

11.149.3.7 native long parma_polyhedra_library::Uint8_Box::affine_dimension ()

11.149.3.8 native void parma_polyhedra_library::Uint8_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.149.3.9 native void parma_polyhedra_library::Uint8_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.149.3.10 native String parma_polyhedra_library::Uint8_Box::ascii_dump ()

11.149.3.11 native void parma_polyhedra_library::Uint8_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.149.3.12 native void parma_polyhedra_library::Uint8_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.149.3.13 native boolean parma_polyhedra_library::Uint8_Box::bounds_from_above (Linear_Expression *expr*)

11.149.3.14 native boolean parma_polyhedra_library::Uint8_Box::bounds_from_below (Linear_Expression *expr*)

11.149.3.15 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.149.3.16 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.149.3.17 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.149.3.18 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (BD_Shape_long_double *y*) `[private]`

11.149.3.19 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) `[private]`

11.149.3.20 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Long_Double_Box *y*) [private]

11.149.3.21 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.149.3.22 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.149.3.23 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.149.3.24 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (BD_Shape_double *y*) [private]

11.149.3.25 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.149.3.26 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Double_Box *y*) [private]

11.149.3.27 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.149.3.28 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.149.3.29 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.149.3.30 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (BD_Shape_float *y*) [private]

11.149.3.31 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.149.3.32 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Float_Box *y*) [private]

11.149.3.33 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.149.3.34 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Grid *y*) [private]

11.149.3.35 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.149.3.36 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (NNC_Polyhedron *y*) [private]

11.149.3.37 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.149.3.38 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (C_Polyhedron *y*) [private]

11.149.3.39 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.149.3.40 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.149.3.41 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.149.3.42 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.149.3.43 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.149.3.44 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.149.3.45 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.149.3.46 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.149.3.47 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.149.3.48 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.149.3.49 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.149.3.50 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.149.3.51 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.149.3.52 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.149.3.53 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.149.3.54 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.149.3.55 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.149.3.56 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.149.3.57 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.149.3.58 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.149.3.59 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.149.3.60 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.149.3.61 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.149.3.62 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.149.3.63 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.149.3.64 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Rational_Box *y*) [private]

11.149.3.65 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.149.3.66 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Z_Box *y*) [private]

11.149.3.67 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.149.3.68 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Uint64_Box *y*) [private]

11.149.3.69 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.149.3.70 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Uint32_Box *y*) [private]

11.149.3.71 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.149.3.72 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Uint16_Box *y*) [private]

11.149.3.73 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.149.3.74 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Uint8_Box *y*) [private]

11.149.3.75 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.149.3.76 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Int64_Box *y*) [private]

11.149.3.77 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.149.3.78 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Int32_Box *y*) [private]

11.149.3.79 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.149.3.80 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Int16_Box *y*) [private]

11.149.3.81 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.149.3.82 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Int8_Box *y*) [private]

11.149.3.83 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.149.3.84 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Generator_System *cs*) [private]

11.149.3.85 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Congruence_System *cs*) [private]

11.149.3.86 native void parma_polyhedra_library::Uint8_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Uint8_Box().

11.149.3.87 native void parma_polyhedra_library::Uint8_Box::CC76_widening_assign (Uint8_Box *y*, By_Reference< Integer > *tp*)

11.149.3.88 native void parma_polyhedra_library::Uint8_Box::concatenate_assign (Uint8_Box *p*)

11.149.3.89 native Congruence_System parma_polyhedra_library::Uint8_Box::congruences ()

11.149.3.90 native boolean parma_polyhedra_library::Uint8_Box::constrains (Variable *var*)

11.149.3.91 native Constraint_System parma_polyhedra_library::Uint8_Box::constraints ()

11.149.3.92 native boolean parma_polyhedra_library::Uint8_Box::contains (Uint8_Box *y*)

11.149.3.93 native boolean parma_polyhedra_library::Uint8_Box::contains_integer_point ()

11.149.3.94 native void parma_polyhedra_library::Uint8_Box::difference_assign (Uint8_Box *p*)

11.149.3.95 native void parma_polyhedra_library::Uint8_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.149.3.96 native void parma_polyhedra_library::Uint8_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.149.3.97 boolean parma_polyhedra_library::Uint8_Box::equals (Object *y*) [inline]

Definition at line 465 of file Uint8_Box.java.

References equals().

11.149.3.98 native boolean parma_polyhedra_library::Uint8_Box::equals (Uint8_Box *p*)

Referenced by equals().

11.149.3.99 native void parma_polyhedra_library::Uint8_Box::expand_space_dimension (Variable *var*, long *m*)

11.149.3.100 native long parma_polyhedra_library::Uint8_Box::external_memory_in_bytes ()

11.149.3.101 native void parma_polyhedra_library::Uint8_Box::finalize () [protected]

11.149.3.102 native void parma_polyhedra_library::Uint8_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.149.3.103 native void parma_polyhedra_library::Uint8_Box::free ()

11.149.3.104 native boolean parma_polyhedra_library::Uint8_Box::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.149.3.105 native void parma_polyhedra_library::Uint8_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.149.3.106 native void parma_polyhedra_library::Uint8_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.149.3.107 native void parma_polyhedra_library::Uint8_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.149.3.108 native void parma_polyhedra_library::Uint8_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.149.3.109 native void parma_polyhedra_library::Uint8_Box::intersection_assign (Uint8_Box *p*)

11.149.3.110 native boolean parma_polyhedra_library::Uint8_Box::is_bounded ()

11.149.3.111 native boolean parma_polyhedra_library::Uint8_Box::is_discrete ()

11.149.3.112 native boolean parma_polyhedra_library::Uint8_Box::is_disjoint_from (Uint8_Box *y*)

11.149.3.113 native boolean parma_polyhedra_library::Uint8_Box::is_empty ()

11.149.3.114 native boolean parma_polyhedra_library::Uint8_Box::is_topologically_closed ()

11.149.3.115 native boolean parma_polyhedra_library::Uint8_Box::is_universe ()

11.149.3.116 native void parma_polyhedra_library::Uint8_Box::limited_CC76_extrapolation_assign (Uint8_Box *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.149.3.117 static native Pair<Uint8_Box, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Uint8_Box::linear_partition (Uint8_Box *p*, Uint8_Box *q*) [static]

11.149.3.118 native void parma_polyhedra_library::Uint8_Box::map_space_dimensions (Partial_Function *pfunc*)

11.149.3.119 native boolean parma_polyhedra_library::Uint8_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.149.3.120 native boolean parma_polyhedra_library::Uint8_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.149.3.121 native boolean parma_polyhedra_library::Uint8_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.149.3.122 native boolean parma_polyhedra_library::Uint8_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.149.3.123 native Congruence_System parma_polyhedra_library::Uint8_Box::minimized_congruences ()

11.149.3.124 native Constraint_System parma_polyhedra_library::Uint8_Box::minimized_constraints ()

11.149.3.125 native boolean parma_polyhedra_library::Uint8_Box::OK ()

11.149.3.126 native void parma_polyhedra_library::Uint8_Box::refine_with_congruence (Congruence *c*)

11.149.3.127 native void parma_polyhedra_library::Uint8_Box::refine_with_congruences (Congruence_System *c*)

11.149.3.128 native void parma_polyhedra_library::Uint8_Box::refine_with_constraint (Constraint *c*)

11.149.3.129 native void parma_polyhedra_library::Uint8_Box::refine_with_constraints (Constraint_System *c*)

11.149.3.130 native Poly_Con_Relation parma_polyhedra_library::Uint8_Box::relation_with (Congruence *c*)

11.149.3.131 native Poly_Gen_Relation parma_polyhedra_library::Uint8_Box::relation_with (Generator *c*)

11.149.3.132 native Poly_Con_Relation parma_polyhedra_library::Uint8_Box::relation_with (Constraint *c*)

11.149.3.133 native void parma_polyhedra_library::Uint8_Box::remove_higher_space_dimensions (long *new_dimension*)

11.149.3.134 native void parma_polyhedra_library::Uint8_Box::remove_space_dimensions (Variables_Set *vars*)

11.149.3.135 native boolean parma_polyhedra_library::Uint8_Box::simplify_using_context_assign (Uint8_Box *p*)

11.149.3.136 native long parma_polyhedra_library::Uint8_Box::space_dimension ()

11.149.3.137 native boolean parma_polyhedra_library::Uint8_Box::strictly_contains (Uint8_Box *y*)

11.149.3.138 native void parma_polyhedra_library::Uint8_Box::swap (Uint8_Box *y*)

11.149.3.139 native void parma_polyhedra_library::Uint8_Box::time_elapse_assign (Uint8_Box *p*)

11.149.3.140 native void parma_polyhedra_library::Uint8_Box::topological_closure_assign ()

11.149.3.141 native String parma_polyhedra_library::Uint8_Box::toString ()

11.149.3.142 native long parma_polyhedra_library::Uint8_Box::total_memory_in_bytes ()

11.149.3.143 native void parma_polyhedra_library::Uint8_Box::unconstrain_space_dimension (Variable *var*)

11.149.3.144 native void parma_polyhedra_library::Uint8_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.149.3.145 native void parma_polyhedra_library::Uint8_Box::upper_bound_assign (Uint8_Box *p*)

11.149.3.146 native boolean parma_polyhedra_library::Uint8_Box::upper_bound_assign_if_exact (Uint8_Box *y*)

11.149.3.147 native void parma_polyhedra_library::Uint8_Box::widening_assign (Uint8_Box *y*, By_Reference< Integer > *tp*)

11.149.3.148 native void parma_polyhedra_library::Uint8_Box::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

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

- Uint8_Box.java

11.150 parma_polyhedra_library::Variable Class Reference

A dimension of the vector space.

Public Member Functions

- Variable (int i)

  Builds the variable corresponding to the Cartesian axis of index `i`.

- int id ()

  Returns the index of the Cartesian axis associated to `this`.

- int compareTo (Variable v)

  Returns a negative number if `this` comes first than `v`, a zero if `this` equals `v`, a positive number if if `this` comes first than `v`.

Static Package Functions

- [static initializer]

Static Private Member Functions

- static native void initIDs ()

Private Attributes

- int varid

  The index of the Cartesian axis.

11.150.1 Detailed Description

A dimension of the vector space. An object of the class Variable represents a dimension of the space, that is one of the Cartesian axes. Variables are used as basic blocks in order to build more complex linear expressions. Each variable is identified by a non-negative integer, representing the index of the corresponding Cartesian axis (the first axis has index 0).

Definition at line 38 of file Variable.java.

11.150.2 Constructor & Destructor Documentation

11.150.2.1 parma_polyhedra_library::Variable::Variable (int *i*) [inline]

Builds the variable corresponding to the Cartesian axis of index `i`.

Exceptions

RuntimeErrorException Thrown if `i` is has negative value.

Definition at line 47 of file Variable.java.

References varid.

11.150.3 Member Function Documentation

11.150.3.1 parma_polyhedra_library::Variable::[static initializer] () [inline, static, package]

11.150.3.2 int parma_polyhedra_library::Variable::compareTo (Variable *v*) [inline]

Returns a negative number if `this` comes first than `v`, a zero if `this` equals `v`, a positive number if if `this` comes first than `v`.

Definition at line 67 of file Variable.java.

References varid.

11.150.3.3 int parma_polyhedra_library::Variable::id () [inline]

Returns the index of the Cartesian axis associated to `this`.

Definition at line 58 of file Variable.java.

References varid.

Referenced by parma_polyhedra_library::Linear_Expression_Variable::Linear_Expression_Variable(), and parma_polyhedra_library::Linear_Expression_Variable::var_id().

11.150.3.4 static native void parma_polyhedra_library::Variable::initIDs () [static, private]

11.150.4 Member Data Documentation

11.150.4.1 int parma_polyhedra_library::Variable::varid [private]

The index of the Cartesian axis.

Definition at line 40 of file Variable.java.

Referenced by compareTo(), id(), and Variable().

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

- Variable.java

11.151 parma_polyhedra_library::Variables_Set Class Reference

A java.util.TreeSet of variables' indexes.

Public Member Functions

- Variables_Set ()

  Builds the empty set of variable indexes.

Static Package Functions

- [static initializer]

Static Private Member Functions

- static native void initIDs ()

11.151.1 Detailed Description

A java.util.TreeSet of variables' indexes.

Definition at line 27 of file Variables_Set.java.

11.151.2 Constructor & Destructor Documentation

11.151.2.1 parma_polyhedra_library::Variables_Set::Variables_Set () [inline]

Builds the empty set of variable indexes.

Definition at line 30 of file Variables_Set.java.

11.151.3 Member Function Documentation

11.151.3.1 parma_polyhedra_library::Variables_Set::[static initializer] () [inline, static, package]

11.151.3.2 static native void parma_polyhedra_library::Variables_Set::initIDs () [static, private]

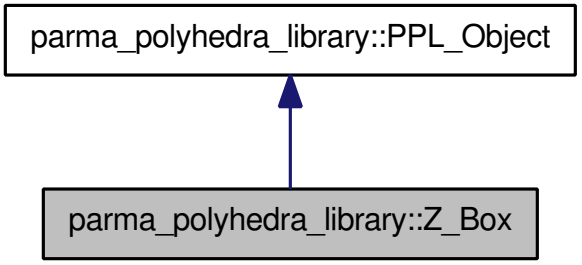
The documentation for this class was generated from the following file:

- Variables_Set.java

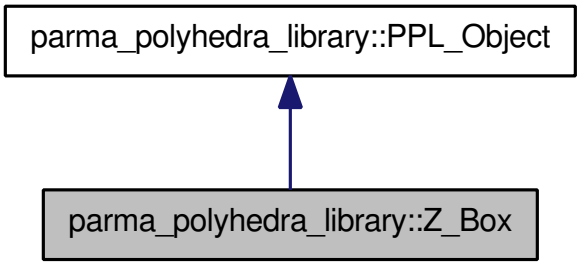
11.152 parma_polyhedra_library::Z_Box Class Reference

Java class interfacing C++ Parma_Polyhedra_Library::Z_Box.

Inheritance diagram for parma_polyhedra_library::Z_Box:



Collaboration diagram for parma_polyhedra_library::Z_Box:



Public Member Functions

- Z_Box (long num_dimensions, Degenerate_Element kind)
- Z_Box (Int8_Box y)
- Z_Box (Int16_Box y)
- Z_Box (Int32_Box y)
- Z_Box (Int64_Box y)
- Z_Box (Uint8_Box y)
- Z_Box (Uint16_Box y)
- Z_Box (Uint32_Box y)
- Z_Box (Uint64_Box y)
- Z_Box (Z_Box y)
- Z_Box (Rational_Box y)
- Z_Box (BD_Shape_int8_t y)
- Z_Box (BD_Shape_int16_t y)
- Z_Box (BD_Shape_int32_t y)
- Z_Box (BD_Shape_int64_t y)
- Z_Box (BD_Shape_mpz_class y)
- Z_Box (BD_Shape_mpq_class y)
- Z_Box (Octagonal_Shape_int8_t y)
- Z_Box (Octagonal_Shape_int16_t y)
- Z_Box (Octagonal_Shape_int32_t y)

- Z_Box (Octagonal_Shape_int64_t y)
- Z_Box (Octagonal_Shape_mpz_class y)
- Z_Box (Octagonal_Shape_mpq_class y)
- Z_Box (C_Polyhedron y)
- Z_Box (NNC_Polyhedron y)
- Z_Box (Grid y)
- Z_Box (Float_Box y)
- Z_Box (BD_Shape_float y)
- Z_Box (Octagonal_Shape_float y)
- Z_Box (Double_Box y)
- Z_Box (BD_Shape_double y)
- Z_Box (Octagonal_Shape_double y)
- Z_Box (Long_Double_Box y)
- Z_Box (BD_Shape_long_double y)
- Z_Box (Octagonal_Shape_long_double y)
- Z_Box (Int8_Box y, Complexity_Class complexity)
- Z_Box (Int16_Box y, Complexity_Class complexity)
- Z_Box (Int32_Box y, Complexity_Class complexity)
- Z_Box (Int64_Box y, Complexity_Class complexity)
- Z_Box (Uint8_Box y, Complexity_Class complexity)
- Z_Box (Uint16_Box y, Complexity_Class complexity)
- Z_Box (Uint32_Box y, Complexity_Class complexity)
- Z_Box (Uint64_Box y, Complexity_Class complexity)
- Z_Box (Z_Box y, Complexity_Class complexity)
- Z_Box (Rational_Box y, Complexity_Class complexity)
- Z_Box (BD_Shape_int8_t y, Complexity_Class complexity)
- Z_Box (BD_Shape_int16_t y, Complexity_Class complexity)
- Z_Box (BD_Shape_int32_t y, Complexity_Class complexity)
- Z_Box (BD_Shape_int64_t y, Complexity_Class complexity)
- Z_Box (BD_Shape_mpz_class y, Complexity_Class complexity)
- Z_Box (BD_Shape_mpq_class y, Complexity_Class complexity)
- Z_Box (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- Z_Box (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- Z_Box (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- Z_Box (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- Z_Box (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- Z_Box (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- Z_Box (C_Polyhedron y, Complexity_Class complexity)
- Z_Box (NNC_Polyhedron y, Complexity_Class complexity)
- Z_Box (Grid y, Complexity_Class complexity)
- Z_Box (Float_Box y, Complexity_Class complexity)
- Z_Box (BD_Shape_float y, Complexity_Class complexity)
- Z_Box (Octagonal_Shape_float y, Complexity_Class complexity)
- Z_Box (Double_Box y, Complexity_Class complexity)
- Z_Box (BD_Shape_double y, Complexity_Class complexity)
- Z_Box (Octagonal_Shape_double y, Complexity_Class complexity)
- Z_Box (Long_Double_Box y, Complexity_Class complexity)
- Z_Box (BD_Shape_long_double y, Complexity_Class complexity)
- Z_Box (Octagonal_Shape_long_double y, Complexity_Class complexity)
- Z_Box (Constraint_System cs)

- Z_Box (Congruence_System cs)
- Z_Box (Generator_System cs)
- native void swap (Z_Box y)
- native long space_dimension ()
- native long affine_dimension ()
- native Poly_Con_Relation relation_with (Constraint c)
- native Poly_Gen_Relation relation_with (Generator c)
- native Poly_Con_Relation relation_with (Congruence c)
- native Constraint_System constraints ()
- native Congruence_System congruences ()
- native Constraint_System minimized_constraints ()
- native Congruence_System minimized_congruences ()
- native boolean is_empty ()
- native boolean is_universe ()
- native boolean is_bounded ()
- native boolean contains_integer_point ()
- native boolean is_topologically_closed ()
- native boolean is_discrete ()
- native void topological_closure_assign ()
- native boolean bounds_from_above (Linear_Expression expr)
- native boolean bounds_from_below (Linear_Expression expr)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum)
- native boolean maximize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean minimize (Linear_Expression expr, Coefficient sup_n, Coefficient sup_d, By_-Reference< Boolean > maximum, Generator point)
- native boolean frequency (Linear_Expression expr, Coefficient freq_n, Coefficient freq_d, Coefficient val_n, Coefficient val_d)
- native boolean contains (Z_Box y)
- native boolean strictly_contains (Z_Box y)
- native boolean is_disjoint_from (Z_Box y)
- native boolean equals (Z_Box p)
- boolean equals (Object y)
- native boolean OK ()
- native void add_constraint (Constraint c)
- native void add_congruence (Congruence c)
- native void add_constraints (Constraint_System c)
- native void add_congruences (Congruence_System c)
- native void refine_with_constraint (Constraint c)
- native void refine_with_congruence (Congruence c)
- native void refine_with_constraints (Constraint_System c)
- native void refine_with_congruences (Congruence_System c)
- native void intersection_assign (Z_Box p)
- native void upper_bound_assign (Z_Box p)
- native void difference_assign (Z_Box p)
- native void concatenate_assign (Z_Box p)
- native void time_elapse_assign (Z_Box p)

- native boolean upper_bound_assign_if_exact (Z_Box y)
- native boolean simplify_using_context_assign (Z_Box p)
- native boolean constrains (Variable var)
- native void unconstrain_space_dimension (Variable var)
- native void unconstrain_space_dimensions (Variables_Set vars)
- native void affine_image (Variable var, Linear_Expression expr, Coefficient denominator)
- native void affine_preimage (Variable var, Linear_Expression expr, Coefficient denominator)
- native void bounded_affine_image (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void bounded_affine_preimage (Variable var, Linear_Expression lb_expr, Linear_Expression ub_expr, Coefficient denominator)
- native void generalized_affine_image (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_preimage (Variable var, Relation_Symbol relsym, Linear_Expression expr, Coefficient denominator)
- native void generalized_affine_image (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void generalized_affine_preimage (Linear_Expression lhs, Relation_Symbol relsym, Linear_Expression rhs)
- native void add_space_dimensions_and_embed (long m)
- native void add_space_dimensions_and_project (long m)
- native void remove_space_dimensions (Variables_Set vars)
- native void remove_higher_space_dimensions (long new_dimension)
- native void expand_space_dimension (Variable var, long m)
- native void fold_space_dimensions (Variables_Set vars, Variable dest)
- native void map_space_dimensions (Partial_Function pfunc)
- native void drop_some_non_integer_points (Integer complexity_threshold)
- native void drop_some_non_integer_points_2 (Variables_Set vars, Integer complexity_threshold)
- native String ascii_dump ()
- native long external_memory_in_bytes ()
- native long total_memory_in_bytes ()
- native void CC76_widening_assign (Z_Box y, By_Reference< Integer > tp)
- native void widening_assign (Z_Box y, By_Reference< Integer > tp)
- native void limited_CC76_extrapolation_assign (Z_Box y, Constraint_System cs, By_Reference< Integer > tp)
- native void wrap_assign (Variables_Set vars, Bounded_Integer_Type_Width w, Bounded_Integer_Type_Representation r, Bounded_Integer_Type_Overflow o, Constraint_System cs, long complexity_threshold, boolean wrap_individually)
- native void free ()
- native String toString ()

Static Public Member Functions

- static native Pair< Z_Box, Pointset_Powerset_NNC_Polyhedron > linear_partition (Z_Box p, Z_Box q)

Protected Member Functions

- native void finalize ()

Private Member Functions

- Z_Box ()
- native void build_cpp_object (Constraint_System cs)
- native void build_cpp_object (Congruence_System cs)
- native void build_cpp_object (Generator_System cs)
- native void build_cpp_object (long num_dimensions, Degenerate_Element kind)
- native void build_cpp_object (Int8_Box y)
- native void build_cpp_object (Int8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int16_Box y)
- native void build_cpp_object (Int16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int32_Box y)
- native void build_cpp_object (Int32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Int64_Box y)
- native void build_cpp_object (Int64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint8_Box y)
- native void build_cpp_object (Uint8_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint16_Box y)
- native void build_cpp_object (Uint16_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint32_Box y)
- native void build_cpp_object (Uint32_Box y, Complexity_Class complexity)
- native void build_cpp_object (Uint64_Box y)
- native void build_cpp_object (Uint64_Box y, Complexity_Class complexity)
- native void build_cpp_object (Z_Box y)
- native void build_cpp_object (Z_Box y, Complexity_Class complexity)
- native void build_cpp_object (Rational_Box y)
- native void build_cpp_object (Rational_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int8_t y)
- native void build_cpp_object (BD_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int16_t y)
- native void build_cpp_object (BD_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int32_t y)
- native void build_cpp_object (BD_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_int64_t y)
- native void build_cpp_object (BD_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpz_class y)
- native void build_cpp_object (BD_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_mpq_class y)
- native void build_cpp_object (BD_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int8_t y)
- native void build_cpp_object (Octagonal_Shape_int8_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int16_t y)
- native void build_cpp_object (Octagonal_Shape_int16_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int32_t y)
- native void build_cpp_object (Octagonal_Shape_int32_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_int64_t y)
- native void build_cpp_object (Octagonal_Shape_int64_t y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpz_class y)
- native void build_cpp_object (Octagonal_Shape_mpz_class y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_mpq_class y)

- native void build_cpp_object (Octagonal_Shape_mpq_class y, Complexity_Class complexity)
- native void build_cpp_object (C_Polyhedron y)
- native void build_cpp_object (C_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (NNC_Polyhedron y)
- native void build_cpp_object (NNC_Polyhedron y, Complexity_Class complexity)
- native void build_cpp_object (Grid y)
- native void build_cpp_object (Grid y, Complexity_Class complexity)
- native void build_cpp_object (Float_Box y)
- native void build_cpp_object (Float_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_float y)
- native void build_cpp_object (BD_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_float y)
- native void build_cpp_object (Octagonal_Shape_float y, Complexity_Class complexity)
- native void build_cpp_object (Double_Box y)
- native void build_cpp_object (Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_double y)
- native void build_cpp_object (BD_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_double y)
- native void build_cpp_object (Octagonal_Shape_double y, Complexity_Class complexity)
- native void build_cpp_object (Long_Double_Box y)
- native void build_cpp_object (Long_Double_Box y, Complexity_Class complexity)
- native void build_cpp_object (BD_Shape_long_double y)
- native void build_cpp_object (BD_Shape_long_double y, Complexity_Class complexity)
- native void build_cpp_object (Octagonal_Shape_long_double y)
- native void build_cpp_object (Octagonal_Shape_long_double y, Complexity_Class complexity)

11.152.1 Detailed Description

Java class interfacing C++ Parma_Polyhedra_Library::Z_Box.

Definition at line 33 of file Z_Box.java.

11.152.2 Constructor & Destructor Documentation

11.152.2.1 parma_polyhedra_library::Z_Box::Z_Box (long *num_dimensions*, Degenerate_Element *kind*) [inline]

Definition at line 40 of file Z_Box.java.

References build_cpp_object().

11.152.2.2 parma_polyhedra_library::Z_Box::Z_Box () [inline, private]

Definition at line 45 of file Z_Box.java.

11.152.2.3 parma_polyhedra_library::Z_Box::Z_Box (Int8_Box *y*) [inline]

Definition at line 52 of file Z_Box.java.

References build_cpp_object().

11.152.2.4 parma_polyhedra_library::Z_Box::Z_Box (Int16_Box *y*) [inline]

Definition at line 56 of file Z_Box.java.

References build_cpp_object().

11.152.2.5 parma_polyhedra_library::Z_Box::Z_Box (Int32_Box *y*) [inline]

Definition at line 60 of file Z_Box.java.

References build_cpp_object().

11.152.2.6 parma_polyhedra_library::Z_Box::Z_Box (Int64_Box *y*) [inline]

Definition at line 64 of file Z_Box.java.

References build_cpp_object().

11.152.2.7 parma_polyhedra_library::Z_Box::Z_Box (Uint8_Box *y*) [inline]

Definition at line 68 of file Z_Box.java.

References build_cpp_object().

11.152.2.8 parma_polyhedra_library::Z_Box::Z_Box (Uint16_Box *y*) [inline]

Definition at line 72 of file Z_Box.java.

References build_cpp_object().

11.152.2.9 parma_polyhedra_library::Z_Box::Z_Box (Uint32_Box *y*) [inline]

Definition at line 76 of file Z_Box.java.

References build_cpp_object().

11.152.2.10 parma_polyhedra_library::Z_Box::Z_Box (Uint64_Box *y*) [inline]

Definition at line 80 of file Z_Box.java.

References build_cpp_object().

11.152.2.11 parma_polyhedra_library::Z_Box::Z_Box (Z_Box *y*) [inline]

Definition at line 84 of file Z_Box.java.

References build_cpp_object().

11.152.2.12 parma_polyhedra_library::Z_Box::Z_Box (Rational_Box *y*) [inline]

Definition at line 88 of file Z_Box.java.

References build_cpp_object().

11.152.2.13 parma_polyhedra_library::Z_Box::Z_Box (BD_Shape_int8_t *y*) [inline]

Definition at line 92 of file Z_Box.java.

References build_cpp_object().

11.152.2.14 parma_polyhedra_library::Z_Box::Z_Box (BD_Shape_int16_t *y*) [inline]

Definition at line 96 of file Z_Box.java.

References build_cpp_object().

11.152.2.15 parma_polyhedra_library::Z_Box::Z_Box (BD_Shape_int32_t *y*) [inline]

Definition at line 100 of file Z_Box.java.

References build_cpp_object().

11.152.2.16 parma_polyhedra_library::Z_Box::Z_Box (BD_Shape_int64_t *y*) [inline]

Definition at line 104 of file Z_Box.java.

References build_cpp_object().

11.152.2.17 parma_polyhedra_library::Z_Box::Z_Box (BD_Shape_mpz_class *y*) [inline]

Definition at line 108 of file Z_Box.java.

References build_cpp_object().

11.152.2.18 parma_polyhedra_library::Z_Box::Z_Box (BD_Shape_mpq_class *y*) [inline]

Definition at line 112 of file Z_Box.java.

References build_cpp_object().

11.152.2.19 parma_polyhedra_library::Z_Box::Z_Box (Octagonal_Shape_int8_t *y*) [inline]

Definition at line 116 of file Z_Box.java.

References build_cpp_object().

11.152.2.20 parma_polyhedra_library::Z_Box::Z_Box (Octagonal_Shape_int16_t *y*) [inline]

Definition at line 120 of file Z_Box.java.

References build_cpp_object().

11.152.2.21 parma_polyhedra_library::Z_Box::Z_Box (Octagonal_Shape_int32_t *y*) [inline]

Definition at line 124 of file Z_Box.java.

References build_cpp_object().

11.152.2.22 parma_polyhedra_library::Z_Box::Z_Box (Octagonal_Shape_int64_t *y*) [inline]

Definition at line 128 of file Z_Box.java.

References build_cpp_object().

11.152.2.23 parma_polyhedra_library::Z_Box::Z_Box (Octagonal_Shape_mpz_class *y*) [inline]

Definition at line 132 of file Z_Box.java.

References build_cpp_object().

11.152.2.24 parma_polyhedra_library::Z_Box::Z_Box (Octagonal_Shape_mpq_class *y*) [inline]

Definition at line 136 of file Z_Box.java.

References build_cpp_object().

11.152.2.25 parma_polyhedra_library::Z_Box::Z_Box (C_Polyhedron *y*) [inline]

Definition at line 140 of file Z_Box.java.

References build_cpp_object().

11.152.2.26 parma_polyhedra_library::Z_Box::Z_Box (NNC_Polyhedron *y*) [inline]

Definition at line 144 of file Z_Box.java.

References build_cpp_object().

11.152.2.27 parma_polyhedra_library::Z_Box::Z_Box (Grid *y*) [inline]

Definition at line 148 of file Z_Box.java.

References build_cpp_object().

11.152.2.28 parma_polyhedra_library::Z_Box::Z_Box (Float_Box *y*) [inline]

Definition at line 152 of file Z_Box.java.

References build_cpp_object().

11.152.2.29 parma_polyhedra_library::Z_Box::Z_Box (BD_Shape_float *y*) [inline]

Definition at line 156 of file Z_Box.java.

References build_cpp_object().

11.152.2.30 parma_polyhedra_library::Z_Box::Z_Box (Octagonal_Shape_float *y*) [inline]

Definition at line 160 of file Z_Box.java.

References build_cpp_object().

11.152.2.31 parma_polyhedra_library::Z_Box::Z_Box (Double_Box *y*) [inline]

Definition at line 164 of file Z_Box.java.

References build_cpp_object().

11.152.2.32 parma_polyhedra_library::Z_Box::Z_Box (BD_Shape_double *y*) [inline]

Definition at line 168 of file Z_Box.java.

References build_cpp_object().

11.152.2.33 parma_polyhedra_library::Z_Box::Z_Box (Octagonal_Shape_double *y*) [inline]

Definition at line 172 of file Z_Box.java.

References build_cpp_object().

11.152.2.34 parma_polyhedra_library::Z_Box::Z_Box (Long_Double_Box *y*) [inline]

Definition at line 176 of file Z_Box.java.

References build_cpp_object().

11.152.2.35 parma_polyhedra_library::Z_Box::Z_Box (BD_Shape_long_double *y*) [inline]

Definition at line 180 of file Z_Box.java.

References build_cpp_object().

11.152.2.36 parma_polyhedra_library::Z_Box::Z_Box (Octagonal_Shape_long_double *y*) [inline]

Definition at line 184 of file Z_Box.java.

References build_cpp_object().

11.152.2.37 parma_polyhedra_library::Z_Box::Z_Box (Int8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 193 of file Z_Box.java.

References build_cpp_object().

11.152.2.38 parma_polyhedra_library::Z_Box::Z_Box (Int16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 197 of file Z_Box.java.

References build_cpp_object().

11.152.2.39 parma_polyhedra_library::Z_Box::Z_Box (Int32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 201 of file Z_Box.java.

References build_cpp_object().

11.152.2.40 parma_polyhedra_library::Z_Box::Z_Box (Int64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 205 of file Z_Box.java.

References build_cpp_object().

11.152.2.41 parma_polyhedra_library::Z_Box::Z_Box (Uint8_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 209 of file Z_Box.java.

References build_cpp_object().

11.152.2.42 parma_polyhedra_library::Z_Box::Z_Box (Uint16_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 213 of file Z_Box.java.

References build_cpp_object().

11.152.2.43 parma_polyhedra_library::Z_Box::Z_Box (Uint32_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 217 of file Z_Box.java.

References build_cpp_object().

11.152.2.44 parma_polyhedra_library::Z_Box::Z_Box (Uint64_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 221 of file Z_Box.java.

References build_cpp_object().

11.152.2.45 parma_polyhedra_library::Z_Box::Z_Box (Z_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 225 of file Z_Box.java.

References build_cpp_object().

11.152.2.46 parma_polyhedra_library::Z_Box::Z_Box (Rational_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 229 of file Z_Box.java.

References build_cpp_object().

11.152.2.47 parma_polyhedra_library::Z_Box::Z_Box (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 233 of file Z_Box.java.

References build_cpp_object().

11.152.2.48 parma_polyhedra_library::Z_Box::Z_Box (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 237 of file Z_Box.java.

References build_cpp_object().

11.152.2.49 parma_polyhedra_library::Z_Box::Z_Box (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 241 of file Z_Box.java.

References build_cpp_object().

11.152.2.50 parma_polyhedra_library::Z_Box::Z_Box (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 245 of file Z_Box.java.

References build_cpp_object().

11.152.2.51 parma_polyhedra_library::Z_Box::Z_Box (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 249 of file Z_Box.java.

References build_cpp_object().

11.152.2.52 parma_polyhedra_library::Z_Box::Z_Box (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 253 of file Z_Box.java.

References build_cpp_object().

11.152.2.53 parma_polyhedra_library::Z_Box::Z_Box (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 257 of file Z_Box.java.

References build_cpp_object().

11.152.2.54 parma_polyhedra_library::Z_Box::Z_Box (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 261 of file Z_Box.java.

References build_cpp_object().

11.152.2.55 parma_polyhedra_library::Z_Box::Z_Box (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 265 of file Z_Box.java.

References build_cpp_object().

11.152.2.56 parma_polyhedra_library::Z_Box::Z_Box (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [inline]

Definition at line 269 of file Z_Box.java.

References build_cpp_object().

11.152.2.57 parma_polyhedra_library::Z_Box::Z_Box (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 273 of file Z_Box.java.

References build_cpp_object().

11.152.2.58 parma_polyhedra_library::Z_Box::Z_Box (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [inline]

Definition at line 277 of file Z_Box.java.

References build_cpp_object().

11.152.2.59 parma_polyhedra_library::Z_Box::Z_Box (C_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 281 of file Z_Box.java.

References build_cpp_object().

11.152.2.60 parma_polyhedra_library::Z_Box::Z_Box (NNC_Polyhedron *y*, Complexity_Class *complexity*) [inline]

Definition at line 285 of file Z_Box.java.

References build_cpp_object().

11.152.2.61 parma_polyhedra_library::Z_Box::Z_Box (Grid *y*, Complexity_Class *complexity*) [inline]

Definition at line 289 of file Z_Box.java.

References build_cpp_object().

11.152.2.62 parma_polyhedra_library::Z_Box::Z_Box (Float_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 293 of file Z_Box.java.

References build_cpp_object().

11.152.2.63 parma_polyhedra_library::Z_Box::Z_Box (BD_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 297 of file Z_Box.java.

References build_cpp_object().

11.152.2.64 parma_polyhedra_library::Z_Box::Z_Box (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [inline]

Definition at line 301 of file Z_Box.java.

References build_cpp_object().

11.152.2.65 parma_polyhedra_library::Z_Box::Z_Box (Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 305 of file Z_Box.java.

References build_cpp_object().

11.152.2.66 parma_polyhedra_library::Z_Box::Z_Box (BD_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 309 of file Z_Box.java.

References build_cpp_object().

11.152.2.67 parma_polyhedra_library::Z_Box::Z_Box (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 313 of file Z_Box.java.

References build_cpp_object().

11.152.2.68 parma_polyhedra_library::Z_Box::Z_Box (Long_Double_Box *y*, Complexity_Class *complexity*) [inline]

Definition at line 317 of file Z_Box.java.

References build_cpp_object().

11.152.2.69 parma_polyhedra_library::Z_Box::Z_Box (BD_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 321 of file Z_Box.java.

References build_cpp_object().

11.152.2.70 parma_polyhedra_library::Z_Box::Z_Box (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) [inline]

Definition at line 325 of file Z_Box.java.

References build_cpp_object().

11.152.2.71 parma_polyhedra_library::Z_Box::Z_Box (Constraint_System *cs*) [inline]

Definition at line 334 of file Z_Box.java.

References build_cpp_object().

11.152.2.72 parma_polyhedra_library::Z_Box::Z_Box (Congruence_System *cs*) [inline]

Definition at line 338 of file Z_Box.java.

References build_cpp_object().

11.152.2.73 parma_polyhedra_library::Z_Box::Z_Box (Generator_System *cs*) [inline]

Definition at line 342 of file Z_Box.java.

References build_cpp_object().

11.152.3 Member Function Documentation

11.152.3.1 native void parma_polyhedra_library::Z_Box::add_congruence (Congruence *c*)

11.152.3.2 native void parma_polyhedra_library::Z_Box::add_congruences (Congruence_System *c*)

11.152.3.3 native void parma_polyhedra_library::Z_Box::add_constraint (Constraint *c*)

11.152.3.4 native void parma_polyhedra_library::Z_Box::add_constraints (Constraint_System *c*)

11.152.3.5 native void parma_polyhedra_library::Z_Box::add_space_dimensions_and_embed (long *m*)

11.152.3.6 native void parma_polyhedra_library::Z_Box::add_space_dimensions_and_project (long *m*)

11.152.3.7 native long parma_polyhedra_library::Z_Box::affine_dimension ()

11.152.3.8 native void parma_polyhedra_library::Z_Box::affine_image (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.152.3.9 native void parma_polyhedra_library::Z_Box::affine_preimage (Variable *var*, Linear_Expression *expr*, Coefficient *denominator*)

11.152.3.10 native String parma_polyhedra_library::Z_Box::ascii_dump ()

11.152.3.11 native void parma_polyhedra_library::Z_Box::bounded_affine_image (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.152.3.12 native void parma_polyhedra_library::Z_Box::bounded_affine_preimage (Variable *var*, Linear_Expression *lb_expr*, Linear_Expression *ub_expr*, Coefficient *denominator*)

11.152.3.13 native boolean parma_polyhedra_library::Z_Box::bounds_from_above (Linear_Expression *expr*)

11.152.3.14 native boolean parma_polyhedra_library::Z_Box::bounds_from_below (Linear_Expression *expr*)

11.152.3.15 native void parma_polyhedra_library::Z_Box::build_cpp_object (Octagonal_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.152.3.16 native void parma_polyhedra_library::Z_Box::build_cpp_object (Octagonal_Shape_long_double *y*) `[private]`

11.152.3.17 native void parma_polyhedra_library::Z_Box::build_cpp_object (BD_Shape_long_double *y*, Complexity_Class *complexity*) `[private]`

11.152.3.18 native void parma_polyhedra_library::Z_Box::build_cpp_object (BD_Shape_long_double *y*) `[private]`

11.152.3.19 native void parma_polyhedra_library::Z_Box::build_cpp_object (Long_Double_Box *y*, Complexity_Class *complexity*) `[private]`

11.152.3.20 native void parma_polyhedra_library::Z_Box::build_cpp_object (Long_Double_Box *y*) `[private]`

11.152.3.21 native void parma_polyhedra_library::Z_Box::build_cpp_object (Octagonal_Shape_double *y*, Complexity_Class *complexity*) [private]

11.152.3.22 native void parma_polyhedra_library::Z_Box::build_cpp_object (Octagonal_Shape_double *y*) [private]

11.152.3.23 native void parma_polyhedra_library::Z_Box::build_cpp_object (BD_Shape_double *y*, Complexity_Class *complexity*) [private]

11.152.3.24 native void parma_polyhedra_library::Z_Box::build_cpp_object (BD_Shape_double *y*) [private]

11.152.3.25 native void parma_polyhedra_library::Z_Box::build_cpp_object (Double_Box *y*, Complexity_Class *complexity*) [private]

11.152.3.26 native void parma_polyhedra_library::Z_Box::build_cpp_object (Double_Box *y*) [private]

11.152.3.27 native void parma_polyhedra_library::Z_Box::build_cpp_object (Octagonal_Shape_float *y*, Complexity_Class *complexity*) [private]

11.152.3.28 native void parma_polyhedra_library::Z_Box::build_cpp_object (Octagonal_Shape_float *y*) [private]

11.152.3.29 native void parma_polyhedra_library::Z_Box::build_cpp_object (BD_Shape_float *y*, Complexity_Class *complexity*) [private]

11.152.3.30 native void parma_polyhedra_library::Z_Box::build_cpp_object (BD_Shape_float *y*) [private]

11.152.3.31 native void parma_polyhedra_library::Z_Box::build_cpp_object (Float_Box *y*, Complexity_Class *complexity*) [private]

11.152.3.32 native void parma_polyhedra_library::Z_Box::build_cpp_object (Float_Box *y*) [private]

11.152.3.33 native void parma_polyhedra_library::Z_Box::build_cpp_object (Grid *y*, Complexity_Class *complexity*) [private]

11.152.3.34 native void parma_polyhedra_library::Z_Box::build_cpp_object (Grid *y*) [private]

11.152.3.35 native void parma_polyhedra_library::Z_Box::build_cpp_object (NNC_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.152.3.36 native void parma_polyhedra_library::Z_Box::build_cpp_object (NNC_Polyhedron *y*) [private]

11.152.3.37 native void parma_polyhedra_library::Z_Box::build_cpp_object (C_Polyhedron *y*, Complexity_Class *complexity*) [private]

11.152.3.38 native void parma_polyhedra_library::Z_Box::build_cpp_object (C_Polyhedron *y*) [private]

11.152.3.39 native void parma_polyhedra_library::Z_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.152.3.40 native void parma_polyhedra_library::Z_Box::build_cpp_object (Octagonal_Shape_mpq_class *y*) [private]

11.152.3.41 native void parma_polyhedra_library::Z_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.152.3.42 native void parma_polyhedra_library::Z_Box::build_cpp_object (Octagonal_Shape_mpz_class *y*) [private]

11.152.3.43 native void parma_polyhedra_library::Z_Box::build_cpp_object (Octagonal_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.152.3.44 native void parma_polyhedra_library::Z_Box::build_cpp_object (Octagonal_Shape_int64_t *y*) [private]

11.152.3.45 native void parma_polyhedra_library::Z_Box::build_cpp_object (Octagonal_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.152.3.46 native void parma_polyhedra_library::Z_Box::build_cpp_object (Octagonal_Shape_int32_t *y*) [private]

11.152.3.47 native void parma_polyhedra_library::Z_Box::build_cpp_object (Octagonal_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.152.3.48 native void parma_polyhedra_library::Z_Box::build_cpp_object (Octagonal_Shape_int16_t *y*) [private]

11.152.3.49 native void parma_polyhedra_library::Z_Box::build_cpp_object (Octagonal_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.152.3.50 native void parma_polyhedra_library::Z_Box::build_cpp_object (Octagonal_Shape_int8_t *y*) [private]

11.152.3.51 native void parma_polyhedra_library::Z_Box::build_cpp_object (BD_Shape_mpq_class *y*, Complexity_Class *complexity*) [private]

11.152.3.52 native void parma_polyhedra_library::Z_Box::build_cpp_object (BD_Shape_mpq_class *y*) [private]

11.152.3.53 native void parma_polyhedra_library::Z_Box::build_cpp_object (BD_Shape_mpz_class *y*, Complexity_Class *complexity*) [private]

11.152.3.54 native void parma_polyhedra_library::Z_Box::build_cpp_object (BD_Shape_mpz_class *y*) [private]

11.152.3.55 native void parma_polyhedra_library::Z_Box::build_cpp_object (BD_Shape_int64_t *y*, Complexity_Class *complexity*) [private]

11.152.3.56 native void parma_polyhedra_library::Z_Box::build_cpp_object (BD_Shape_int64_t *y*) [private]

11.152.3.57 native void parma_polyhedra_library::Z_Box::build_cpp_object (BD_Shape_int32_t *y*, Complexity_Class *complexity*) [private]

11.152.3.58 native void parma_polyhedra_library::Z_Box::build_cpp_object (BD_Shape_int32_t *y*) [private]

11.152.3.59 native void parma_polyhedra_library::Z_Box::build_cpp_object (BD_Shape_int16_t *y*, Complexity_Class *complexity*) [private]

11.152.3.60 native void parma_polyhedra_library::Z_Box::build_cpp_object (BD_Shape_int16_t *y*) [private]

11.152.3.61 native void parma_polyhedra_library::Z_Box::build_cpp_object (BD_Shape_int8_t *y*, Complexity_Class *complexity*) [private]

11.152.3.62 native void parma_polyhedra_library::Z_Box::build_cpp_object (BD_Shape_int8_t *y*) [private]

11.152.3.63 native void parma_polyhedra_library::Z_Box::build_cpp_object (Rational_Box *y*, Complexity_Class *complexity*) [private]

11.152.3.64 native void parma_polyhedra_library::Z_Box::build_cpp_object (Rational_Box *y*) [private]

11.152.3.65 native void parma_polyhedra_library::Z_Box::build_cpp_object (Z_Box *y*, Complexity_Class *complexity*) [private]

11.152.3.66 native void parma_polyhedra_library::Z_Box::build_cpp_object (Z_Box *y*) [private]

11.152.3.67 native void parma_polyhedra_library::Z_Box::build_cpp_object (Uint64_Box *y*, Complexity_Class *complexity*) [private]

11.152.3.68 native void parma_polyhedra_library::Z_Box::build_cpp_object (Uint64_Box *y*) [private]

11.152.3.69 native void parma_polyhedra_library::Z_Box::build_cpp_object (Uint32_Box *y*, Complexity_Class *complexity*) [private]

11.152.3.70 native void parma_polyhedra_library::Z_Box::build_cpp_object (Uint32_Box *y*) [private]

11.152.3.71 native void parma_polyhedra_library::Z_Box::build_cpp_object (Uint16_Box *y*, Complexity_Class *complexity*) [private]

11.152.3.72 native void parma_polyhedra_library::Z_Box::build_cpp_object (Uint16_Box *y*) [private]

11.152.3.73 native void parma_polyhedra_library::Z_Box::build_cpp_object (Uint8_Box *y*, Complexity_Class *complexity*) [private]

11.152.3.74 native void parma_polyhedra_library::Z_Box::build_cpp_object (Uint8_Box *y*) [private]

11.152.3.75 native void parma_polyhedra_library::Z_Box::build_cpp_object (Int64_Box *y*, Complexity_Class *complexity*) [private]

11.152.3.76 native void parma_polyhedra_library::Z_Box::build_cpp_object (Int64_Box *y*) [private]

11.152.3.77 native void parma_polyhedra_library::Z_Box::build_cpp_object (Int32_Box *y*, Complexity_Class *complexity*) [private]

11.152.3.78 native void parma_polyhedra_library::Z_Box::build_cpp_object (Int32_Box *y*) [private]

11.152.3.79 native void parma_polyhedra_library::Z_Box::build_cpp_object (Int16_Box *y*, Complexity_Class *complexity*) [private]

11.152.3.80 native void parma_polyhedra_library::Z_Box::build_cpp_object (Int16_Box *y*) [private]

11.152.3.81 native void parma_polyhedra_library::Z_Box::build_cpp_object (Int8_Box *y*, Complexity_Class *complexity*) [private]

11.152.3.82 native void parma_polyhedra_library::Z_Box::build_cpp_object (Int8_Box *y*) [private]

11.152.3.83 native void parma_polyhedra_library::Z_Box::build_cpp_object (long *num_dimensions*, Degenerate_Element *kind*) [private]

11.152.3.84 native void parma_polyhedra_library::Z_Box::build_cpp_object (Generator_System *cs*) [private]

11.152.3.85 native void parma_polyhedra_library::Z_Box::build_cpp_object (Congruence_System *cs*) [private]

11.152.3.86 native void parma_polyhedra_library::Z_Box::build_cpp_object (Constraint_System *cs*) [private]

Referenced by Z_Box().

11.152.3.87 native void parma_polyhedra_library::Z_Box::CC76_widening_assign (Z_Box *y*, By_Reference< Integer > *tp*)

11.152.3.88 native void parma_polyhedra_library::Z_Box::concatenate_assign (Z_Box *p*)

11.152.3.89 native Congruence_System parma_polyhedra_library::Z_Box::congruences ()

11.152.3.90 native boolean parma_polyhedra_library::Z_Box::constrains (Variable *var*)

11.152.3.91 native Constraint_System parma_polyhedra_library::Z_Box::constraints ()

11.152.3.92 native boolean parma_polyhedra_library::Z_Box::contains (Z_Box *y*)

11.152.3.93 native boolean parma_polyhedra_library::Z_Box::contains_integer_point ()

11.152.3.94 native void parma_polyhedra_library::Z_Box::difference_assign (Z_Box *p*)

11.152.3.95 native void parma_polyhedra_library::Z_Box::drop_some_non_integer_points (Integer *complexity_threshold*)

11.152.3.96 native void parma_polyhedra_library::Z_Box::drop_some_non_integer_points_2 (Variables_Set *vars*, Integer *complexity_threshold*)

11.152.3.97 boolean parma_polyhedra_library::Z_Box::equals (Object *y*) `[inline]`

Definition at line 465 of file Z_Box.java.

References equals().

11.152.3.98 native boolean parma_polyhedra_library::Z_Box::equals (Z_Box *p*)

Referenced by equals().

11.152.3.99 native void parma_polyhedra_library::Z_Box::expand_space_dimension (Variable *var*, long *m*)

11.152.3.100 native long parma_polyhedra_library::Z_Box::external_memory_in_bytes ()

11.152.3.101 native void parma_polyhedra_library::Z_Box::finalize () `[protected]`

11.152.3.102 native void parma_polyhedra_library::Z_Box::fold_space_dimensions (Variables_Set *vars*, Variable *dest*)

11.152.3.103 native void parma_polyhedra_library::Z_Box::free ()

11.152.3.104 native boolean parma_polyhedra_library::Z_Box::frequency (Linear_Expression *expr*, Coefficient *freq_n*, Coefficient *freq_d*, Coefficient *val_n*, Coefficient *val_d*)

11.152.3.105 native void parma_polyhedra_library::Z_Box::generalized_affine_image (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.152.3.106 native void parma_polyhedra_library::Z_Box::generalized_affine_image (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.152.3.107 native void parma_polyhedra_library::Z_Box::generalized_affine_preimage (Linear_Expression *lhs*, Relation_Symbol *relsym*, Linear_Expression *rhs*)

11.152.3.108 native void parma_polyhedra_library::Z_Box::generalized_affine_preimage (Variable *var*, Relation_Symbol *relsym*, Linear_Expression *expr*, Coefficient *denominator*)

11.152.3.109 native void parma_polyhedra_library::Z_Box::intersection_assign (Z_Box *p*)

11.152.3.110 native boolean parma_polyhedra_library::Z_Box::is_bounded ()

11.152.3.111 native boolean parma_polyhedra_library::Z_Box::is_discrete ()

11.152.3.112 native boolean parma_polyhedra_library::Z_Box::is_disjoint_from (Z_Box *y*)

11.152.3.113 native boolean parma_polyhedra_library::Z_Box::is_empty ()

11.152.3.114 native boolean parma_polyhedra_library::Z_Box::is_topologically_closed ()

11.152.3.115 native boolean parma_polyhedra_library::Z_Box::is_universe ()

11.152.3.116 native void parma_polyhedra_library::Z_Box::limited_CC76_extrapolation_assign (Z_Box *y*, Constraint_System *cs*, By_Reference< Integer > *tp*)

11.152.3.117 static native Pair<Z_Box, Pointset_Powerset_NNC_Polyhedron > parma_polyhedra_library::Z_Box::linear_partition (Z_Box *p*, Z_Box *q*) [static]

11.152.3.118 native void parma_polyhedra_library::Z_Box::map_space_dimensions (Partial_Function *pfunc*)

11.152.3.119 native boolean parma_polyhedra_library::Z_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.152.3.120 native boolean parma_polyhedra_library::Z_Box::maximize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.152.3.121 native boolean parma_polyhedra_library::Z_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*, Generator *point*)

11.152.3.122 native boolean parma_polyhedra_library::Z_Box::minimize (Linear_Expression *expr*, Coefficient *sup_n*, Coefficient *sup_d*, By_Reference< Boolean > *maximum*)

11.152.3.123 native Congruence_System parma_polyhedra_library::Z_Box::minimized_-congruences ()

11.152.3.124 native Constraint_System parma_polyhedra_library::Z_Box::minimized_constraints ()

11.152.3.125 native boolean parma_polyhedra_library::Z_Box::OK ()

11.152.3.126 native void parma_polyhedra_library::Z_Box::refine_with_congruence (Congruence *c*)

11.152.3.127 native void parma_polyhedra_library::Z_Box::refine_with_congruences (Congruence_System *c*)

11.152.3.128 native void parma_polyhedra_library::Z_Box::refine_with_constraint (Constraint *c*)

11.152.3.129 native void parma_polyhedra_library::Z_Box::refine_with_constraints (Constraint_System *c*)

11.152.3.130 native Poly_Con_Relation parma_polyhedra_library::Z_Box::relation_with (Congruence *c*)

11.152.3.131 native Poly_Gen_Relation parma_polyhedra_library::Z_Box::relation_with (Generator *c*)

11.152.3.132 native Poly_Con_Relation parma_polyhedra_library::Z_Box::relation_with (Constraint *c*)

11.152.3.133 native void parma_polyhedra_library::Z_Box::remove_higher_space_dimensions (long *new_dimension*)

11.152.3.134 native void parma_polyhedra_library::Z_Box::remove_space_dimensions (Variables_Set *vars*)

11.152.3.135 native boolean parma_polyhedra_library::Z_Box::simplify_using_context_assign (Z_Box *p*)

11.152.3.136 native long parma_polyhedra_library::Z_Box::space_dimension ()

11.152.3.137 native boolean parma_polyhedra_library::Z_Box::strictly_contains (Z_Box *y*)

11.152.3.138 native void parma_polyhedra_library::Z_Box::swap (Z_Box *y*)

11.152.3.139 native void parma_polyhedra_library::Z_Box::time_elapse_assign (Z_Box *p*)

11.152.3.140 native void parma_polyhedra_library::Z_Box::topological_closure_assign ()

11.152.3.141 native String parma_polyhedra_library::Z_Box::toString ()

11.152.3.142 native long parma_polyhedra_library::Z_Box::total_memory_in_bytes ()

11.152.3.143 native void parma_polyhedra_library::Z_Box::unconstrain_space_dimension (Variable *var*)

11.152.3.144 native void parma_polyhedra_library::Z_Box::unconstrain_space_dimensions (Variables_Set *vars*)

11.152.3.145 native void parma_polyhedra_library::Z_Box::upper_bound_assign (Z_Box *p*)

11.152.3.146 native boolean parma_polyhedra_library::Z_Box::upper_bound_assign_if_exact (Z_Box *y*)

11.152.3.147 native void parma_polyhedra_library::Z_Box::widening_assign (Z_Box *y*, By_Reference< Integer > *tp*)

11.152.3.148 native void parma_polyhedra_library::Z_Box::wrap_assign (Variables_Set *vars*, Bounded_Integer_Type_Width *w*, Bounded_Integer_Type_Representation *r*, Bounded_Integer_Type_Overflow *o*, Constraint_System *cs*, long *complexity_threshold*, boolean *wrap_individually*)

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

- Z_Box.java

12 File Documentation

12.1 Artificial_Parameter.java File Reference

Classes

- class parma_polyhedra_library::Artificial_Parameter

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.2 Artificial_Parameter_Sequence.java File Reference

Classes

- class parma_polyhedra_library::Artificial_Parameter_Sequence

A sequence of artificial parameters.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.3 BD_Shape_double.java File Reference

Classes

- class parma_polyhedra_library::BD_Shape_double

  Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<double>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.4 BD_Shape_float.java File Reference

Classes

- class parma_polyhedra_library::BD_Shape_float

  Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<float>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.5 BD_Shape_int16_t.java File Reference

Classes

- class parma_polyhedra_library::BD_Shape_int16_t

  Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<int16_t>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.6 BD_Shape_int32_t.java File Reference

Classes

- class parma_polyhedra_library::BD_Shape_int32_t

  Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<int32_t>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.7 BD_Shape_int64_t.java File Reference

Classes

- class parma_polyhedra_library::BD_Shape_int64_t

  Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<int64_t>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.8 BD_Shape_int8_t.java File Reference

Classes

- class parma_polyhedra_library::BD_Shape_int8_t

  Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<int8_t>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.9 BD_Shape_long_double.java File Reference

Classes

- class parma_polyhedra_library::BD_Shape_long_double
  Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<long double>

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.10 BD_Shape_mpq_class.java File Reference

Classes

- class parma_polyhedra_library::BD_Shape_mpq_class
  Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<mpq_class>

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.11 BD_Shape_mpz_class.java File Reference

Classes

- class parma_polyhedra_library::BD_Shape_mpz_class
  Java class interfacing C++ Parma_Polyhedra_Library::BD_Shape<mpz_class>

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.12 Bounded_Integer_Type_Overflow.java File Reference

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

Enumerations

- enum parma_polyhedra_library::Bounded_Integer_Type_Overflow { parma_polyhedra_library::OVERFLOW_WRAPS, parma_polyhedra_library::OVERFLOW_UNDEFINED, parma_polyhedra_library::OVERFLOW_IMPOSSIBLE }

  Overflow behavior of bounded integer types.

12.13 Bounded_Integer_Type_Representation.java File Reference

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

Enumerations

- enum parma_polyhedra_library::Bounded_Integer_Type_Representation { parma_polyhedra_library::UNSIGNED, parma_polyhedra_library::SIGNED_2_COMPLEMENT }

  Representation of bounded integer types.

12.14 Bounded_Integer_Type_Width.java File Reference

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

Enumerations

- enum parma_polyhedra_library::Bounded_Integer_Type_Width {

  parma_polyhedra_library::BITS_8, parma_polyhedra_library::BITS_16, parma_polyhedra_library::BITS_32, parma_polyhedra_library::BITS_64,

  parma_polyhedra_library::BITS_128 }

  Widths of bounded integer types.

12.15 By_Reference.java File Reference

Classes

- class parma_polyhedra_library::By_Reference< T >

  An utility class implementing mutable and non-mutable call-by-reference.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.16 C_Polyhedron.java File Reference

Classes

- class parma_polyhedra_library::C_Polyhedron

  Java class interfacing C++ Parma_Polyhedra_Library::C_Polyhedron.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.17 Coefficient.java File Reference

Classes

- class parma_polyhedra_library::Coefficient

  A PPL coefficient.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.18 Complexity_Class.java File Reference

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

Enumerations

- enum parma_polyhedra_library::Complexity_Class { parma_polyhedra_library::POLYNOMIAL_-COMPLEXITY, parma_polyhedra_library::SIMPLEX_COMPLEXITY, parma_polyhedra_-library::ANY_COMPLEXITY }

  Possible Complexities.

12.19 Congruence.java File Reference

Classes

- class parma_polyhedra_library::Congruence
  A linear congruence.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.20 Congruence_System.java File Reference

Classes

- class parma_polyhedra_library::Congruence_System
  A system of congruences.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.21 Constraint.java File Reference

Classes

- class parma_polyhedra_library::Constraint
  A linear equality or inequality.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.22 Constraint_System.java File Reference

Classes

- class parma_polyhedra_library::Constraint_System
  A system of constraints.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.23 Constraints_Product_C_Polyhedron_Grid.java File Reference

Classes

- class parma_polyhedra_library::Constraints_Product_C_Polyhedron_Grid

  Java class interfacing C++ Parma_Polyhedra_Library::Constraints_Product<C_Polyhedron,Grid>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.24 Constraints_Product_Grid_C_Polyhedron.java File Reference

Classes

- class parma_polyhedra_library::Constraints_Product_Grid_C_Polyhedron

  Java class interfacing C++ Parma_Polyhedra_Library::Constraints_Product<Grid,C_Polyhedron>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.25 Constraints_Product_Grid_NNC_Polyhedron.java File Reference

Classes

- class parma_polyhedra_library::Constraints_Product_Grid_NNC_Polyhedron

  Java class interfacing C++ Parma_Polyhedra_Library::Constraints_Product<Grid,NNC_Polyhedron>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.26 Constraints_Product_NNC_Polyhedron_Grid.java File Reference

Classes

- class parma_polyhedra_library::Constraints_Product_NNC_Polyhedron_Grid

  Java class interfacing C++ Parma_Polyhedra_Library::Constraints_Product<NNC_Polyhedron,Grid>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.27 Control_Parameter_Name.java File Reference

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

Enumerations

- enum parma_polyhedra_library::Control_Parameter_Name { parma_polyhedra_library::PRICING }

  Names of MIP problems' control parameters.

12.28 Control_Parameter_Value.java File Reference

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

Enumerations

- enum parma_polyhedra_library::Control_Parameter_Value { parma_polyhedra_library::PRICING_STEEPEST_EDGE_FLOAT, parma_polyhedra_library::PRICING_STEEPEST_EDGE_EXACT, parma_polyhedra_library::PRICING_TEXTBOOK }

  Possible values for MIP problem's control parameters.

12.29 Degenerate_Element.java File Reference

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

Enumerations

- enum parma_polyhedra_library::Degenerate_Element { parma_polyhedra_library::UNIVERSE, parma_polyhedra_library::EMPTY }
  Kinds of degenerate abstract elements.

12.30 Domain_Error_Exception.java File Reference

Classes

- class parma_polyhedra_library::Domain_Error_Exception
  Exceptions caused by domain errors.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.31 Double_Box.java File Reference

Classes

- class parma_polyhedra_library::Double_Box
  Java class interfacing C++ Parma_Polyhedra_Library::Double_Box.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.32 fdl.dox File Reference

12.33 Float_Box.java File Reference

Classes

- class parma_polyhedra_library::Float_Box

Java class interfacing C++ Parma_Polyhedra_Library::Float_Box.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.34 Generator.java File Reference

Classes

- class parma_polyhedra_library::Generator

  A line, ray, point or closure point.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.35 Generator_System.java File Reference

Classes

- class parma_polyhedra_library::Generator_System

  A system of generators.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.36 Generator_Type.java File Reference

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

Enumerations

- enum parma_polyhedra_library::Generator_Type { parma_polyhedra_library::LINE, parma_polyhedra_library::RAY, parma_polyhedra_library::POINT, parma_polyhedra_library::CLOSURE_POINT }

  The generator type.

12.37 gpl.dox File Reference

12.38 Grid.java File Reference

Classes

- class parma_polyhedra_library::Grid

  Java class interfacing C++ Parma_Polyhedra_Library::Grid.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.39 Grid_Generator.java File Reference

Classes

- class parma_polyhedra_library::Grid_Generator

  A grid line, parameter or grid point.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.40 Grid_Generator_System.java File Reference

Classes

- class parma_polyhedra_library::Grid_Generator_System

  A system of grid generators.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.41 Grid_Generator_Type.java File Reference

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

Enumerations

- enum parma_polyhedra_library::Grid_Generator_Type { parma_polyhedra_library::LINE, parma_polyhedra_library::PARAMETER, parma_polyhedra_library::POINT }

  The grid generator type.

12.42 Int16_Box.java File Reference

Classes

- class parma_polyhedra_library::Int16_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Int16_Box.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.43 Int32_Box.java File Reference

Classes

- class parma_polyhedra_library::Int32_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Int32_Box.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.44 Int64_Box.java File Reference

Classes

- class parma_polyhedra_library::Int64_Box
  Java class interfacing C++ Parma_Polyhedra_Library::Int64_Box.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.45 Int8_Box.java File Reference

Classes

- class parma_polyhedra_library::Int8_Box
  Java class interfacing C++ Parma_Polyhedra_Library::Int8_Box.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.46 Invalid_Argument_Exception.java File Reference

Classes

- class parma_polyhedra_library::Invalid_Argument_Exception
  Exceptions caused by invalid arguments.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.47 IO.java File Reference

Classes

- class parma_polyhedra_library::IO
  A class collecting I/O functions.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.48 Length_Error_Exception.java File Reference

Classes

- class parma_polyhedra_library::Length_Error_Exception

  Exceptions caused by too big length/size values.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.49 Linear_Expression.java File Reference

Classes

- class parma_polyhedra_library::Linear_Expression

  A linear expression.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.50 Linear_Expression_Coefficient.java File Reference

Classes

- class parma_polyhedra_library::Linear_Expression_Coefficient

  A linear expression built from a coefficient.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.51 Linear_Expression_Difference.java File Reference

Classes

- class parma_polyhedra_library::Linear_Expression_Difference
  The difference of two linear expressions.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.52 Linear_Expression_Sum.java File Reference

Classes

- class parma_polyhedra_library::Linear_Expression_Sum
  The sum of two linear expressions.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.53 Linear_Expression_Times.java File Reference

Classes

- class parma_polyhedra_library::Linear_Expression_Times
  The product of a linear expression and a coefficient.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.54 Linear_Expression_Unary_Minus.java File Reference

Classes

- class parma_polyhedra_library::Linear_Expression_Unary_Minus
  The negation of a linear expression.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.55 Linear_Expression_Variable.java File Reference

Classes

- class parma_polyhedra_library::Linear_Expression_Variable

  A linear expression built from a variable.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.56 Logic_Error_Exception.java File Reference

Classes

- class parma_polyhedra_library::Logic_Error_Exception

  Exceptions due to errors in low-level routines.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.57 Long_Double_Box.java File Reference

Classes

- class parma_polyhedra_library::Long_Double_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Long_Double_Box.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.58 MIP_Problem.java File Reference

Classes

- class parma_polyhedra_library::MIP_Problem

  A Mixed Integer (linear) Programming problem.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.59 MIP_Problem_Status.java File Reference

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

Enumerations

- enum parma_polyhedra_library::MIP_Problem_Status { parma_polyhedra_library::UNFEASIBLE_MIP_PROBLEM, parma_polyhedra_library::UNBOUNDED_MIP_PROBLEM, parma_polyhedra_library::OPTIMIZED_MIP_PROBLEM }

  Possible outcomes of the MIP_Problem solver.

12.60 NNC_Polyhedron.java File Reference

Classes

- class parma_polyhedra_library::NNC_Polyhedron

  Java class interfacing C++ Parma_Polyhedra_Library::NNC_Polyhedron.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.61 Octagonal_Shape_double.java File Reference

Classes

- class parma_polyhedra_library::Octagonal_Shape_double

Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<double>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.62 Octagonal_Shape_float.java File Reference

Classes

- class parma_polyhedra_library::Octagonal_Shape_float

  Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<float>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.63 Octagonal_Shape_int16_t.java File Reference

Classes

- class parma_polyhedra_library::Octagonal_Shape_int16_t

  Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<int16_t>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.64 Octagonal_Shape_int32_t.java File Reference

Classes

- class parma_polyhedra_library::Octagonal_Shape_int32_t

  Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<int32_t>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.65 Octagonal_Shape_int64_t.java File Reference

Classes

- class parma_polyhedra_library::Octagonal_Shape_int64_t

  Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<int64_t>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.66 Octagonal_Shape_int8_t.java File Reference

Classes

- class parma_polyhedra_library::Octagonal_Shape_int8_t

  Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<int8_t>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.67 Octagonal_Shape_long_double.java File Reference

Classes

- class parma_polyhedra_library::Octagonal_Shape_long_double

  Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<long double>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.68 Octagonal_Shape_mpq_class.java File Reference

Classes

- class parma_polyhedra_library::Octagonal_Shape_mpq_class
  Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<mpq_class>

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.69 Octagonal_Shape_mpz_class.java File Reference

Classes

- class parma_polyhedra_library::Octagonal_Shape_mpz_class
  Java class interfacing C++ Parma_Polyhedra_Library::Octagonal_Shape<mpz_class>

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.70 Optimization_Mode.java File Reference

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

Enumerations

- enum parma_polyhedra_library::Optimization_Mode { parma_polyhedra_library::MINIMIZATION, parma_polyhedra_library::MAXIMIZATION }
  Possible optimization modes.

12.71 Overflow_Error_Exception.java File Reference

Classes

- class parma_polyhedra_library::Overflow_Error_Exception
  Exceptions due to overflow errors.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.72 Pair.java File Reference

Classes

- class parma_polyhedra_library::Pair< K, V >

  A pair of values of type K and V.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.73 Parma_Polyhedra_Library.java File Reference

Classes

- class parma_polyhedra_library::Parma_Polyhedra_Library

  A class collecting library-level functions.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.74 Partial_Function.java File Reference

Classes

- class parma_polyhedra_library::Partial_Function

  A partial function on space dimension indices.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.75 PIP_Decision_Node.java File Reference

Classes

- class parma_polyhedra_library::PIP_Decision_Node
  An internal node of the PIP solution tree.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.76 PIP_Problem.java File Reference

Classes

- class parma_polyhedra_library::PIP_Problem
  A Parametric Integer Programming problem.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.77 PIP_Problem_Control_Parameter_Name.java File Reference

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

Enumerations

- enum parma_polyhedra_library::PIP_Problem_Control_Parameter_Name { parma_polyhedra_library::CUTTING_STRATEGY, parma_polyhedra_library::PIVOT_ROW_STRATEGY }
  Names of PIP problems' control parameters.

12.78 PIP_Problem_Control_Parameter_Value.java File Reference

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

Enumerations

- enum parma_polyhedra_library::PIP_Problem_Control_Parameter_Value {

  parma_polyhedra_library::CUTTING_STRATEGY_FIRST, parma_polyhedra_library::CUTTING_STRATEGY_DEEPEST, parma_polyhedra_library::CUTTING_STRATEGY_ALL, parma_polyhedra_library::PIVOT_ROW_STRATEGY_FIRST,

  parma_polyhedra_library::PIVOT_ROW_STRATEGY_MAX_COLUMN }

  Possible values for PIP problems' control parameters.

12.79 PIP_Problem_Status.java File Reference

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

Enumerations

- enum parma_polyhedra_library::PIP_Problem_Status { parma_polyhedra_library::UNFEASIBLE_PIP_PROBLEM, parma_polyhedra_library::OPTIMIZED_PIP_PROBLEM }

  Possible outcomes of the PIP_Problem solver.

12.80 PIP_Solution_Node.java File Reference

Classes

- class parma_polyhedra_library::PIP_Solution_Node

  A leaf node of the PIP solution tree.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.81 PIP_Tree_Node.java File Reference

Classes

- class parma_polyhedra_library::PIP_Tree_Node

  A node of the PIP solution tree.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.82 Pointset_Powerset_BD_Shape_double.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_BD_Shape_double

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<double> >

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.83 Pointset_Powerset_BD_Shape_double_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_BD_Shape_double_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<double> >:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.84 Pointset_Powerset_BD_Shape_float.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_BD_Shape_float

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<float> >

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.85 Pointset_Powerset_BD_Shape_float_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_BD_Shape_float_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<float> >:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.86 Pointset_Powerset_BD_Shape_int16_t.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int16_t> >

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.87 Pointset_Powerset_BD_Shape_int16_t_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_BD_Shape_int16_t_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int16_t> >:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.88 Pointset_Powerset_BD_Shape_int32_t.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int32_t> >

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.89 Pointset_Powerset_BD_Shape_int32_t_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_BD_Shape_int32_t_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int32_t> >:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.90 Pointset_Powerset_BD_Shape_int64_t.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int64_t> >

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.91 Pointset_Powerset_BD_Shape_int64_t_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_BD_Shape_int64_t_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int64_t> >:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.92 Pointset_Powerset_BD_Shape_int8_t.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int8_t> >

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.93 Pointset_Powerset_BD_Shape_int8_t_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_BD_Shape_int8_t_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<int8_t> >:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.94 Pointset_Powerset_BD_Shape_long_double.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<long double> >

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.95 Pointset_Powerset_BD_Shape_long_double_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_BD_Shape_long_double_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<long double> >:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.96 Pointset_Powerset_BD_Shape_mpq_class.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<mpq_class> >

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.97 Pointset_Powerset_BD_Shape_mpq_class_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpq_class_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<mpq_class> >:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.98 Pointset_Powerset_BD_Shape_mpz_class.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<mpz_class> >

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.99 Pointset_Powerset_BD_Shape_mpz_class_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_BD_Shape_mpz_class_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<BD_Shape<mpz_class> >:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.100 Pointset_Powerset_C_Polyhedron.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_C_Polyhedron

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<C_Polyhedron>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.101 Pointset_Powerset_C_Polyhedron_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_C_Polyhedron_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<C_Polyhedron>:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.102 Pointset_Powerset_Double_Box.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Double_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Double_Box>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.103 Pointset_Powerset_Double_Box_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Double_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Double_Box>:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.104 Pointset_Powerset_Float_Box.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Float_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Float_Box>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.105 Pointset_Powerset_Float_Box_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Float_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Float_Box>:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.106 Pointset_Powerset_Grid.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Grid

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Grid>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.107 Pointset_Powerset_Grid_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Grid_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Grid>:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.108 Pointset_Powerset_Int16_Box.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Int16_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int16_Box>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.109 Pointset_Powerset_Int16_Box_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Int16_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int16_Box>:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.110 Pointset_Powerset_Int32_Box.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Int32_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int32_Box>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.111 Pointset_Powerset_Int32_Box_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Int32_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int32_Box>:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.112 Pointset_Powerset_Int64_Box.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Int64_Box
  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int64_Box>

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.113 Pointset_Powerset_Int64_Box_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Int64_Box_Iterator
  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int64_Box>:: iterator.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.114 Pointset_Powerset_Int8_Box.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Int8_Box
  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int8_Box>

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.115 Pointset_Powerset_Int8_Box_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Int8_Box_Iterator
  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Int8_Box>:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.116 Pointset_Powerset_Long_Double_Box.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Long_Double_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Long_Double_Box>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.117 Pointset_Powerset_Long_Double_Box_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Long_Double_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Long_Double_Box>:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.118 Pointset_Powerset_NNC_Polyhedron.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<NNC_Polyhedron>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.119 Pointset_Powerset_NNC_Polyhedron_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_NNC_Polyhedron_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<NNC_Polyhedron>:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.120 Pointset_Powerset_Octagonal_Shape_double.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<double>>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.121 Pointset_Powerset_Octagonal_Shape_double_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_double_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<double>>:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.122 Pointset_Powerset_Octagonal_Shape_float.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<float> >

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.123 Pointset_Powerset_Octagonal_Shape_float_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_float_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<float> >:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.124 Pointset_Powerset_Octagonal_Shape_int16_t.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int16_t> >

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.125 Pointset_Powerset_Octagonal_Shape_int16_t_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int16_t_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int16_t> >:: iterator.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.126 Pointset_Powerset_Octagonal_Shape_int32_t.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t
  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int32_t> >

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.127 Pointset_Powerset_Octagonal_Shape_int32_t_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int32_t_Iterator
  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int32_t> >:: iterator.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.128 Pointset_Powerset_Octagonal_Shape_int64_t.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t
  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int64_t> >

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.129 Pointset_Powerset_Octagonal_Shape_int64_t_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int64_t_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int64_t> >:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.130 Pointset_Powerset_Octagonal_Shape_int8_t.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int8_t> >

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.131 Pointset_Powerset_Octagonal_Shape_int8_t_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_int8_t_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<int8_t> >:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.132 Pointset_Powerset_Octagonal_Shape_long_double.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double

Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<long double> >

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.133 Pointset_Powerset_Octagonal_Shape_long_double_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_long_double_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<long double> >:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.134 Pointset_Powerset_Octagonal_Shape_mpq_class.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<mpq_class> >

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.135 Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpq_class_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<mpq_class> >:: iterator.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.136 Pointset_Powerset_Octagonal_Shape_mpz_class.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class
  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<mpz_class> >

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.137 Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Octagonal_Shape_mpz_class_Iterator
  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Octagonal_Shape<mpz_class> >:: iterator.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.138 Pointset_Powerset_Rational_Box.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Rational_Box
  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Rational_Box>

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.139 Pointset_Powerset_Rational_Box_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Rational_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Rational_Box>:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.140 Pointset_Powerset_Uint16_Box.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Uint16_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint16_Box>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.141 Pointset_Powerset_Uint16_Box_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Uint16_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint16_Box>:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.142 Pointset_Powerset_Uint32_Box.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Uint32_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint32_Box>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.143 Pointset_Powerset_Uint32_Box_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Uint32_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint32_Box>:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.144 Pointset_Powerset_Uint64_Box.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Uint64_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint64_Box>

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.145 Pointset_Powerset_Uint64_Box_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Uint64_Box_Iterator

  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint64_Box>:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.146 Pointset_Powerset_Uint8_Box.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Uint8_Box
  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint8_Box>

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.147 Pointset_Powerset_Uint8_Box_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Uint8_Box_Iterator
  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Uint8_Box>:: iterator.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.148 Pointset_Powerset_Z_Box.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Z_Box
  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Z_Box>

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.149 Pointset_Powerset_Z_Box_Iterator.java File Reference

Classes

- class parma_polyhedra_library::Pointset_Powerset_Z_Box_Iterator
  Java class interfacing C++ Parma_Polyhedra_Library::Pointset_Powerset<Z_Box>:: iterator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.150 Poly_Con_Relation.java File Reference

Classes

- class parma_polyhedra_library::Poly_Con_Relation

  The relation between a polyhedron and a constraint.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.151 Poly_Gen_Relation.java File Reference

Classes

- class parma_polyhedra_library::Poly_Gen_Relation

  The relation between a polyhedron and a generator.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.152 Polyhedron.java File Reference

Classes

- class parma_polyhedra_library::Polyhedron

  Java class interfacing C++ Parma_Polyhedra_Library::Polyhedron.

Namespaces

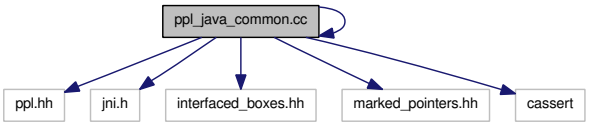
- namespace parma_polyhedra_library

  The PPL Java interface package.

12.153 ppl_java_common.cc File Reference

```
#include "ppl_java_common.defs.hh"
#include "ppl.hh"
#include <jni.h>
#include "interfaced_boxes.hh"
#include "marked_pointers.hh"
#include <cassert>
```

Include dependency graph for ppl_java_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::Java

Functions

- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env, const std::overflow_error &e)
- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env, const std::invalid_argument &e)
- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env, const std::logic_error &e)
- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env, const std::length_error &e)
- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env, const std::domain_error &e)
- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env, const std::bad_alloc &)
- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env, const std::exception &e)
- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env, const timeout_exception &)
- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env, const deterministic_timeout_exception &)
- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env)

- void Parma_Polyhedra_Library::Interfaces::Java::reset_timeout ()
- void Parma_Polyhedra_Library::Interfaces::Java::reset_deterministic_timeout ()
- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_poly_gen_relation (JNIEnv *env, Poly_Gen_Relation &r)

  Builds a Java parma_polyhedra_library::Poly_Gen_Relation from C++ Poly_Gen_Relation `r`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_poly_con_relation (JNIEnv *env, Poly_Con_Relation &r)

  Builds a Java parma_polyhedra_library::Poly_Con_Relation from C++ Poly_Con_Relation `r`.

- Congruence Parma_Polyhedra_Library::Interfaces::Java::build_cxx_congruence (JNIEnv *env, jobject j_cg)

  Builds a C++ Congruence from Java parma_polyhedra_library::Congruence `j_cg`.

- PIP_Tree_Node::Artificial_Parameter Parma_Polyhedra_Library::Interfaces::Java::build_cxx_artificial_parameter (JNIEnv *env, jobject j_ap)

  Builds a C++ Artificial_Parameter from Java parma_polyhedra_library::Artificial_Parameter `j_artificial_parameter`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::bool_to_j_boolean_class (JNIEnv *env, const bool value)

  Builds a Java Boolean from C++ bool `value`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::j_long_to_j_long_class (JNIEnv *env, jlong value)

  Builds a Java Long from Java long `value`.

- jlong Parma_Polyhedra_Library::Interfaces::Java::j_long_class_to_j_long (JNIEnv *env, jobject j_long)

  Returns the Java long stored in Java Long `j_long`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::j_int_to_j_integer (JNIEnv *env, jint value)

  Builds a Java Integer from Java int `value`.

- jint Parma_Polyhedra_Library::Interfaces::Java::j_integer_to_j_int (JNIEnv *env, jobject j_integer)

  Returns the Java int stored in Java Integer `j_integer`.

- Variables_Set Parma_Polyhedra_Library::Interfaces::Java::build_cxx_variables_set (JNIEnv *env, jobject v_set)

  Builds a C++ Variables_Set from Java parma_polyhedra_library::Variables_Set `v_set`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_variables_set (JNIEnv *env, const Variables_Set &v_set)

  Builds a Java parma_polyhedra_library::Variables_Set from C++ Variables_Set `v_set`.

- Bounded_Integer_Type_Overflow Parma_Polyhedra_Library::Interfaces::Java::build_cxx_bounded_overflow (JNIEnv *env, jobject j_bounded_overflow)

  Builds a C++ Bounded_Integer_Type_Overflow from Java parma_polyhedra_library::Bounded_Integer_Type_Overflow `j_bounded_overflow`.

- Bounded_Integer_Type_Representation Parma_Polyhedra_Library::Interfaces::Java::build_cxx_bounded_rep (JNIEnv *env, jobject j_bounded_rep)

  Builds a C++ Bounded_Integer_Type_Representation from Java parma_polyhedra_library::Bounded_Integer_Type_Representation `j_bounded_rep`.

- Bounded_Integer_Type_Width Parma_Polyhedra_Library::Interfaces::Java::build_cxx_bounded_width (JNIEnv *env, jobject j_bounded_width)

  Builds a C++ Bounded_Integer_Type_Width from Java parma_polyhedra_library::Bounded_Integer_Type_Width `j_bounded_width`.

- Relation_Symbol Parma_Polyhedra_Library::Interfaces::Java::build_cxx_relsym (JNIEnv *env, jobject j_relsym)

  Builds a C++ Relation_Symbol from Java parma_polyhedra_library::Relation_Symbol `j_relsym`.

- Optimization_Mode Parma_Polyhedra_Library::Interfaces::Java::build_cxx_optimization_mode (JNIEnv *env, jobject j_opt_mode)

  Builds a C++ Optimization_Mode from Java parma_polyhedra_library::Optimization_Mode `j_opt_mode`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_mip_status (JNIEnv *env, const MIP_Problem_Status &mip_status)

  Builds a Java parma_polyhedra_library::MIP_Problem_Status from C++ MIP_Problem_Status `mip_status`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_pip_status (JNIEnv *env, const PIP_Problem_Status &pip_status)

  Builds a Java parma_polyhedra_library::PIP_Problem_Status from C++ PIP_Problem_Status `pip_status`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_optimization_mode (JNIEnv *env, const Optimization_Mode &opt_mode)

  Builds a Java parma_polyhedra_library::Optimization_Mode from C++ Optimization_Mode `opt_mode`.

- MIP_Problem::Control_Parameter_Name Parma_Polyhedra_Library::Interfaces::Java::build_cxx_control_parameter_name (JNIEnv *env, jobject j_cp_name)

  Builds a C++ MIP_Problem::Control_Parameter_Name from Java parma_polyhedra_library::Control_Parameter_Name `j_cp_name`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_control_parameter_name (JNIEnv *env, const MIP_Problem::Control_Parameter_Name &cp_name)

  Builds a Java parma_polyhedra_library::Control_Parameter_Name from C++ MIP_Problem::Control_Parameter_Name `cp_name`.

- MIP_Problem::Control_Parameter_Value Parma_Polyhedra_Library::Interfaces::Java::build_cxx_control_parameter_value (JNIEnv *env, jobject j_cp_value)

  Builds a C++ MIP_Problem::Control_Parameter_Value from Java parma_polyhedra_library::Control_Parameter_Value `j_cp_value`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_control_parameter_value (JNIEnv *env, const MIP_Problem::Control_Parameter_Value &cp_value)

  Builds a Java parma_polyhedra_library::Control_Parameter_Value from C++ MIP_Problem::Control_Parameter_Value `cp_value`.

- PIP_Problem::Control_Parameter_Name Parma_Polyhedra_Library::Interfaces::Java::build_cxx_-pip_problem_control_parameter_name (JNIEnv *env, jobject j_cp_name)

  Builds a C++ PIP_Problem::Control_Parameter_Name from Java parma_polyhedra_library::PIP_-Problem_Control_Parameter_Name `j_cp_name`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_pip_problem_java_control_parameter_-name (JNIEnv *env, const PIP_Problem::Control_Parameter_Name &cp_name)
- PIP_Problem::Control_Parameter_Value Parma_Polyhedra_Library::Interfaces::Java::build_cxx_-pip_problem_control_parameter_value (JNIEnv *env, jobject j_cp_value)

  Builds a C++ PIP_Problem::Control_Parameter_Value from Java parma_polyhedra_library::PIP_-Problem_Control_Parameter_Value `j_cp_value`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_pip_problem_control_parameter_-value (JNIEnv *env, const PIP_Problem::Control_Parameter_Value &cp_value)

  Builds a Java parma_polyhedra_library::Control_Parameter_Value from C++ PIP_Problem::Control_-Parameter_Value `cp_value`.

- Constraint Parma_Polyhedra_Library::Interfaces::Java::build_cxx_constraint (JNIEnv *env, jobject j_constraint)

  Builds a C++ Constraint from Java parma_polyhedra_library::Constraint `j_constraint`.

- Linear_Expression Parma_Polyhedra_Library::Interfaces::Java::build_cxx_linear_expression (JNIEnv *env, jobject j_le)

  Builds a C++ Linear_Expression from Java parma_polyhedra_library::Linear_Expression `j_le`.

- Generator Parma_Polyhedra_Library::Interfaces::Java::build_cxx_generator (JNIEnv *env, jobject j_g)

  Builds a C++ Generator from Java parma_polyhedra_library::Generator `j_g`.

- Grid_Generator Parma_Polyhedra_Library::Interfaces::Java::build_cxx_grid_generator (JNIEnv *env, jobject j_g)

  Builds a C++ Grid_Generator from Java parma_polyhedra_library::Grid_Generator `j_g`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_linear_expression_coefficient (JNIEnv *env, const Coefficient &coeff)

  Builds a Java parma_polyhedra_library::Linear_Expression_Coefficient from C++ Coefficient `coeff`.

- void Parma_Polyhedra_Library::Interfaces::Java::set_generator (JNIEnv *env, jobject dst, jobject src)

  Sets Java parma_polyhedra_library::Generator `dst` *to have the same value as* `src`.

- void Parma_Polyhedra_Library::Interfaces::Java::set_pair_element (JNIEnv *env, jobject dst_pair, int arg, jobject src)

  Assigns `src` *to one of the fields of parma_polyhedra_library::Pair object* `dst_pair`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::get_pair_element (JNIEnv *env, int arg, jobject pair)

  Returns one of the fields of the parma_polyhedra_library::Pair object `pair`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_constraint (JNIEnv *env, const Constraint &c)

Builds a Java parma_polyhedra_library::Constraint from C++ Constraint `c`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_congruence (JNIEnv *env, const Congruence &cg)

  Builds a Java parma_polyhedra_library::Congruence from C++ Congruence `cg`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_generator (JNIEnv *env, const Generator &g)

  Builds a Java parma_polyhedra_library::Generator from C++ Generator `g`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_grid_generator (JNIEnv *env, const Grid_Generator &g)

  Builds a Java parma_polyhedra_library::Grid_Generator from C++ Grid_Generator `g`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_constraint_system (JNIEnv *env, const Constraint_System &cs)

  Builds a Java parma_polyhedra_library::Constraint_System from C++ Constraint_System `cs`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_generator_system (JNIEnv *env, const Generator_System &gs)

  Builds a Java parma_polyhedra_library::Generator_System from C++ Generator_System `gs`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_grid_generator_system (JNIEnv *env, const Grid_Generator_System &gs)

  Builds a Java parma_polyhedra_library::Grid_Generator_System from C++ Grid_Generator_System `gs`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_congruence_system (JNIEnv *env, const Congruence_System &cgs)

  Builds a Java parma_polyhedra_library::Congruence_System from C++ Congruence_System `cgs`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_artificial_parameter (JNIEnv *env, const PIP_Tree_Node::Artificial_Parameter &ap)

  Builds a Java parma_polyhedra_library::Artificial_Parameter from C++ Artificial_Parameter `ap`.

Variables

- Java_Class_Cache Parma_Polyhedra_Library::Interfaces::Java::cached_classes

  The cached class references.

- Java_FMID_Cache Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs

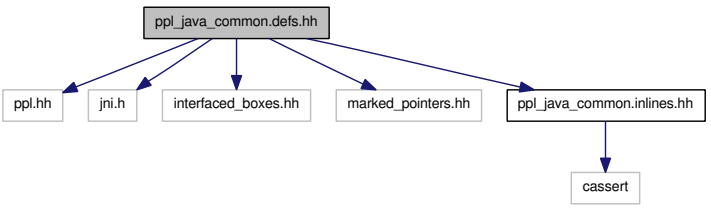
  The field and method ID cache.

12.154 ppl_java_common.defs.hh File Reference

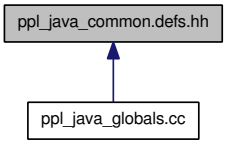
```
#include "ppl.hh"
#include <jni.h>
#include "interfaced_boxes.hh"
```

```
#include "marked_pointers.hh"
#include "ppl_java_common.inlines.hh"
```

Include dependency graph for ppl_java_common.defs.hh:



This graph shows which files directly or indirectly include this file:



Classes

- struct Parma_Polyhedra_Library::Interfaces::Java::Java_ExceptionOccurred
- class Parma_Polyhedra_Library::Interfaces::Java::timeout_exception
- class Parma_Polyhedra_Library::Interfaces::Java::deterministic_timeout_exception
- class Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache

  A cache for global references to Java classes.

- struct Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache

  A cache for field and method IDs of Java classes.

Namespaces

- namespace Parma_Polyhedra_Library
- namespace Parma_Polyhedra_Library::Interfaces
- namespace Parma_Polyhedra_Library::Interfaces::Java

Defines

- #define PPL_NO_AUTOMATIC_INITIALIZATION
- #define CATCH_ALL
- #define CHECK_EXCEPTION_ASSERT(env) assert(!env->ExceptionOccurred())
- #define CHECK_EXCEPTION_THROW(env)
- #define CHECK_EXCEPTION_RETURN(env, val)
- #define CHECK_EXCEPTION_RETURN_VOID(env)
- #define CHECK_RESULT_ABORT(env, cond)
- #define CHECK_RESULT_ASSERT(env, cond) assert(cond)

- #define CHECK_RESULT_THROW(env, cond)
- #define CHECK_RESULT_RETURN(env, cond, val)
- #define CHECK_RESULT_RETURN_VOID(env, cond)

Functions

- void Parma_Polyhedra_Library::Interfaces::Java::reset_timeout ()
- void Parma_Polyhedra_Library::Interfaces::Java::reset_deterministic_timeout ()
- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env, const std::logic_error &e)
- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env, const std::invalid_argument &e)
- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env, const std::domain_error &e)
- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env, const std::overflow_error &e)
- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env, const std::length_error &e)
- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env, const std::bad_alloc &)
- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env, const std::exception &e)
- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env, const timeout_exception &)
- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env, const deterministic_timeout_exception &)
- void Parma_Polyhedra_Library::Interfaces::Java::handle_exception (JNIEnv *env)
- template<typename U , typename V >
  U Parma_Polyhedra_Library::Interfaces::Java::jtype_to_unsigned (const V &value)

  Builds an unsigned C++ number from the Java native number `value`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::bool_to_j_boolean_class (JNIEnv *env, const bool value)

  Builds a Java Boolean from C++ bool `value`.

- jint Parma_Polyhedra_Library::Interfaces::Java::j_integer_to_j_int (JNIEnv *env, jobject j_integer)

  Returns the Java int stored in Java Integer `j_integer`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::j_int_to_j_integer (JNIEnv *env, jint value)

  Builds a Java Integer from Java int `value`.

- jlong Parma_Polyhedra_Library::Interfaces::Java::j_long_class_to_j_long (JNIEnv *env, jobject j_long)

  Returns the Java long stored in Java Long `j_long`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::j_long_to_j_long_class (JNIEnv *env, jlong value)

  Builds a Java Long from Java long `value`.

- bool Parma_Polyhedra_Library::Interfaces::Java::is_java_marked (JNIEnv *env, jobject ppl_-object)

  Returns `true` *if and only if the Java object* `ppl_object` *refers to a C++ object.*

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_poly_gen_relation (JNIEnv *env, Poly_Gen_Relation &r)

  Builds a Java parma_polyhedra_library::Poly_Gen_Relation from C++ Poly_Gen_Relation `r`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_poly_con_relation (JNIEnv *env, Poly_Con_Relation &r)

  Builds a Java parma_polyhedra_library::Poly_Con_Relation from C++ Poly_Con_Relation `r`.

- Variables_Set Parma_Polyhedra_Library::Interfaces::Java::build_cxx_variables_set (JNIEnv *env, jobject v_set)

  Builds a C++ Variables_Set from Java parma_polyhedra_library::Variables_Set `v_set`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_variables_set (JNIEnv *env, const Variables_Set &v_set)

  Builds a Java parma_polyhedra_library::Variables_Set from C++ Variables_Set `v_set`.

- Relation_Symbol Parma_Polyhedra_Library::Interfaces::Java::build_cxx_relsym (JNIEnv *env, jobject j_relsym)

  Builds a C++ Relation_Symbol from Java parma_polyhedra_library::Relation_Symbol `j_relsym`.

- Bounded_Integer_Type_Overflow Parma_Polyhedra_Library::Interfaces::Java::build_cxx_-bounded_overflow (JNIEnv *env, jobject j_bounded_overflow)

  Builds a C++ Bounded_Integer_Type_Overflow from Java parma_polyhedra_library::Bounded_Integer_-Type_Overflow `j_bounded_overflow`.

- Bounded_Integer_Type_Width Parma_Polyhedra_Library::Interfaces::Java::build_cxx_bounded_-width (JNIEnv *env, jobject j_bounded_width)

  Builds a C++ Bounded_Integer_Type_Width from Java parma_polyhedra_library::Bounded_Integer_-Type_Width `j_bounded_width`.

- Bounded_Integer_Type_Representation Parma_Polyhedra_Library::Interfaces::Java::build_cxx_-bounded_rep (JNIEnv *env, jobject j_bounded_rep)

  Builds a C++ Bounded_Integer_Type_Representation from Java parma_polyhedra_library::Bounded_-Integer_Type_Representation `j_bounded_rep`.

- Optimization_Mode Parma_Polyhedra_Library::Interfaces::Java::build_cxx_optimization_mode (JNIEnv *env, jobject j_opt_mode)

  Builds a C++ Optimization_Mode from Java parma_polyhedra_library::Optimization_Mode `j_opt_-mode`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_optimization_mode (JNIEnv *env, const Optimization_Mode &opt_mode)

  Builds a Java parma_polyhedra_library::Optimization_Mode from C++ Optimization_Mode `opt_mode`.

- MIP_Problem::Control_Parameter_Name Parma_Polyhedra_Library::Interfaces::Java::build_cxx_-control_parameter_name (JNIEnv *env, jobject j_cp_name)

  Builds a C++ MIP_Problem::Control_Parameter_Name from Java parma_polyhedra_library::Control_-Parameter_Name `j_cp_name`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_control_parameter_name (JNIEnv *env, const MIP_Problem::Control_Parameter_Name &cp_name)

  Builds a Java parma_polyhedra_library::Control_Parameter_Name from C++ MIP_Problem::Control_Parameter_Name `cp_name`.

- MIP_Problem::Control_Parameter_Value Parma_Polyhedra_Library::Interfaces::Java::build_cxx_control_parameter_value (JNIEnv *env, jobject j_cp_value)

  Builds a C++ MIP_Problem::Control_Parameter_Value from Java parma_polyhedra_library::Control_Parameter_Value `j_cp_value`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_control_parameter_value (JNIEnv *env, const MIP_Problem::Control_Parameter_Value &cp_value)

  Builds a Java parma_polyhedra_library::Control_Parameter_Value from C++ MIP_Problem::Control_Parameter_Value `cp_value`.

- PIP_Problem::Control_Parameter_Name Parma_Polyhedra_Library::Interfaces::Java::build_cxx_pip_problem_control_parameter_name (JNIEnv *env, jobject j_cp_name)

  Builds a C++ PIP_Problem::Control_Parameter_Name from Java parma_polyhedra_library::PIP_Problem_Control_Parameter_Name `j_cp_name`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_pip_problem_control_parameter_name (JNIEnv *env, const PIP_Problem::Control_Parameter_Name &cp_name)

  Builds a Java parma_polyhedra_library::PIP_Problem_Control_Parameter_Name from C++ PIP_Problem::Control_Parameter_Name `cp_name`.

- PIP_Problem::Control_Parameter_Value Parma_Polyhedra_Library::Interfaces::Java::build_cxx_pip_problem_control_parameter_value (JNIEnv *env, jobject j_cp_value)

  Builds a C++ PIP_Problem::Control_Parameter_Value from Java parma_polyhedra_library::PIP_Problem_Control_Parameter_Value `j_cp_value`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_pip_problem_control_parameter_value (JNIEnv *env, const PIP_Problem::Control_Parameter_Value &cp_value)

  Builds a Java parma_polyhedra_library::Control_Parameter_Value from C++ PIP_Problem::Control_Parameter_Value `cp_value`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_mip_status (JNIEnv *env, const MIP_Problem_Status &mip_status)

  Builds a Java parma_polyhedra_library::MIP_Problem_Status from C++ MIP_Problem_Status `mip_status`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_pip_status (JNIEnv *env, const PIP_Problem_Status &pip_status)

  Builds a Java parma_polyhedra_library::PIP_Problem_Status from C++ PIP_Problem_Status `pip_status`.

- Variable Parma_Polyhedra_Library::Interfaces::Java::build_cxx_variable (JNIEnv *env, jobject j_var)

  Builds a C++ Variable from Java parma_polyhedra_library::Variable `j_var`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_variable (JNIEnv *env, const Variable &var)

Builds a Java parma_polyhedra_library::Variable from C++ Variable `var`.

- Coefficient Parma_Polyhedra_Library::Interfaces::Java::build_cxx_coeff (JNIEnv *env, jobject j_coeff)

  Builds a C++ Coefficient from Java parma_polyhedra_library::Coefficient `j_coeff`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_coeff (JNIEnv *env, const Coefficient &ppl_coeff)

  Builds a Java parma_polyhedra_library::Coefficient from C++ Coefficient `ppl_coeff`.

- Constraint Parma_Polyhedra_Library::Interfaces::Java::build_cxx_constraint (JNIEnv *env, jobject j_constraint)

  Builds a C++ Constraint from Java parma_polyhedra_library::Constraint `j_constraint`.

- PIP_Tree_Node::Artificial_Parameter Parma_Polyhedra_Library::Interfaces::Java::build_cxx_artificial_parameter (JNIEnv *env, jobject j_ap)

  Builds a C++ Artificial_Parameter from Java parma_polyhedra_library::Artificial_Parameter `j_artificial_parameter`.

- Linear_Expression Parma_Polyhedra_Library::Interfaces::Java::build_cxx_linear_expression (JNIEnv *env, jobject j_le)

  Builds a C++ Linear_Expression from Java parma_polyhedra_library::Linear_Expression `j_le`.

- Congruence Parma_Polyhedra_Library::Interfaces::Java::build_cxx_congruence (JNIEnv *env, jobject j_cg)

  Builds a C++ Congruence from Java parma_polyhedra_library::Congruence `j_cg`.

- Generator Parma_Polyhedra_Library::Interfaces::Java::build_cxx_generator (JNIEnv *env, jobject j_g)

  Builds a C++ Generator from Java parma_polyhedra_library::Generator `j_g`.

- Grid_Generator Parma_Polyhedra_Library::Interfaces::Java::build_cxx_grid_generator (JNIEnv *env, jobject j_g)

  Builds a C++ Grid_Generator from Java parma_polyhedra_library::Grid_Generator `j_g`.

- Grid_Generator_System Parma_Polyhedra_Library::Interfaces::Java::build_cxx_grid_generator_system (JNIEnv *env, jobject j_gs)

  Builds a C++ Grid_Generator_System from Java parma_polyhedra_library::Grid_Generator_System `j_gs`.

- Constraint_System Parma_Polyhedra_Library::Interfaces::Java::build_cxx_constraint_system (JNIEnv *env, jobject j_cs)

  Builds a C++ Constraint_System from Java parma_polyhedra_library::Constraint_System `j_cs`.

- PIP_Tree_Node::Artificial_Parameter_Sequence Parma_Polyhedra_Library::Interfaces::Java::build_cxx_artificial_parameter_sequence (JNIEnv *env, jobject j_aps)

  Builds a C++ Artificial_Parameter_Sequence from Java parma_polyhedra_library::Artificial_Parameter_Sequence `j_aps`.

- Generator_System Parma_Polyhedra_Library::Interfaces::Java::build_cxx_generator_system (JNIEnv *env, jobject j_gs)

Builds a C++ Generator_System from Java parma_polyhedra_library::Generator_System `j_gs`.

- Congruence_System Parma_Polyhedra_Library::Interfaces::Java::build_cxx_congruence_system (JNIEnv *env, jobject j_cgs)

  Builds a C++ Congruence_System from Java parma_polyhedra_library::Congruence_System `j_cgs`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_constraint (JNIEnv *env, const Constraint &c)

  Builds a Java parma_polyhedra_library::Constraint from C++ Constraint `c`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_artificial_parameter (JNIEnv *env, const PIP_Tree_Node::Artificial_Parameter &ap)

  Builds a Java parma_polyhedra_library::Artificial_Parameter from C++ Artificial_Parameter `ap`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_congruence (JNIEnv *env, const Congruence &cg)

  Builds a Java parma_polyhedra_library::Congruence from C++ Congruence `cg`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_generator (JNIEnv *env, const Generator &g)

  Builds a Java parma_polyhedra_library::Generator from C++ Generator `g`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_grid_generator (JNIEnv *env, const Grid_Generator &g)

  Builds a Java parma_polyhedra_library::Grid_Generator from C++ Grid_Generator `g`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_constraint_system (JNIEnv *env, const Constraint_System &cs)

  Builds a Java parma_polyhedra_library::Constraint_System from C++ Constraint_System `cs`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_artificial_parameter_sequence (JNIEnv *env, const PIP_Tree_Node::Artificial_Parameter_Sequence &aps)

  Builds a Java parma_polyhedra_library::Artificial_Parameter_Sequence from C++ Artificial_Parameter_Sequence `aps`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_grid_generator_system (JNIEnv *env, const Grid_Generator_System &gs)

  Builds a Java parma_polyhedra_library::Grid_Generator_System from C++ Grid_Generator_System `gs`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_generator_system (JNIEnv *env, const Generator_System &gs)

  Builds a Java parma_polyhedra_library::Generator_System from C++ Generator_System `gs`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_congruence_system (JNIEnv *env, const Congruence_System &cgs)

  Builds a Java parma_polyhedra_library::Congruence_System from C++ Congruence_System `cgs`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_linear_expression_coefficient (JNIEnv *env, const Coefficient &coeff)

  Builds a Java parma_polyhedra_library::Linear_Expression_Coefficient from C++ Coefficient `coeff`.

- void Parma_Polyhedra_Library::Interfaces::Java::set_generator (JNIEnv *env, jobject dst, jobject src)

  Sets Java parma_polyhedra_library::Generator `dst` *to have the same value as* `src`.

- void Parma_Polyhedra_Library::Interfaces::Java::set_coefficient (JNIEnv *env, jobject dst, jobject src)

  Sets Java Coefficient `dst` *to have the same value as* `src`.

- void Parma_Polyhedra_Library::Interfaces::Java::set_by_reference (JNIEnv *env, jobject by_ref_dst, jobject src)

  Modifies parma_polyhedra_library::By_Reference object `by_ref_dst` *so that it references object* `src`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::get_by_reference (JNIEnv *env, jobject by_reference)

  Returns the object referenced by parma_polyhedra_library::By_Reference object `by_reference`.

- void Parma_Polyhedra_Library::Interfaces::Java::set_pair_element (JNIEnv *env, jobject dst_pair, int arg, jobject src)

  Assigns `src` *to one of the fields of parma_polyhedra_library::Pair object* `dst_pair`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::get_pair_element (JNIEnv *env, int arg, jobject pair)

  Returns one of the fields of the parma_polyhedra_library::Pair object `pair`.

- void * Parma_Polyhedra_Library::Interfaces::Java::get_ptr (JNIEnv *env, jobject ppl_object)

  Returns a pointer to the C++ object wrapped by `ppl_object`.

- template<typename T >
  void Parma_Polyhedra_Library::Interfaces::Java::set_ptr (JNIEnv *env, jobject ppl_object, const T *address, bool to_be_marked=false)

  Sets the pointer of the underlying C++ object in the Java object.

- template<typename R >
  jobject Parma_Polyhedra_Library::Interfaces::Java::build_linear_expression (JNIEnv *env, const R &r)

  Builds a Java parma_polyhedra_library::Linear_Expression from the C++ constraint/congruence `r`.

12.154.1 Define Documentation

12.154.1.1 #define CATCH_ALL

Definition at line 38 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Artificial_1Parameter_ascii_1dump(), Java_parma_1polyhedra_1library_Congruence_1System_ascii_1dump(), Java_parma_1polyhedra_1library_Congruence_ascii_1dump(), Java_parma_1polyhedra_1library_Constraint_1System_ascii_1dump(), Java_parma_1polyhedra_1library_Constraint_ascii_1dump(), Java_parma_1polyhedra_1library_Generator_1System_ascii_1dump(), Java_parma_1polyhedra_1library_Generator_ascii_1dump(),

Java_parma_1polyhedra_1library_Grid_1Generator_1System_ascii_1dump(), Java_parma_1polyhedra_-1library_Grid_1Generator_ascii_1dump(), Java_parma_1polyhedra_1library_IO_wrap_1string(), Java_parma_1polyhedra_1library_Linear_1Expression_all_1homogeneous_1terms_1are_1zero(), Java_parma_1polyhedra_1library_Linear_1Expression_ascii_1dump(), Java_parma_1polyhedra_-1library_Linear_1Expression_is_1zero(), Java_parma_1polyhedra_1library_MIP_1Problem_add_-1constraint(), Java_parma_1polyhedra_1library_MIP_1Problem_add_1constraints(), Java_parma_-1polyhedra_1library_MIP_1Problem_add_1space_1dimensions_1and_1embed(), Java_parma_-1polyhedra_1library_MIP_1Problem_add_1to_1integer_1space_1dimensions(), Java_parma_-1polyhedra_1library_MIP_1Problem_ascii_1dump(), Java_parma_1polyhedra_1library_MIP_-1Problem_build_1cpp_1object__J(), Java_parma_1polyhedra_1library_MIP_1Problem_build_1cpp_-1object__JLparma_1polyhedra_1library_Constraint_1System_2Lparma_1polyhedra_1library_Linear_-1Expression_2Lparma_1polyhedra_1library_Optimization_1Mode_2(), Java_parma_1polyhedra_-1library_MIP_1Problem_clear(), Java_parma_1polyhedra_1library_MIP_1Problem_constraints(), Java_parma_1polyhedra_1library_MIP_1Problem_evaluate_1objective_1function(), Java_parma_-1polyhedra_1library_MIP_1Problem_feasible_1point(), Java_parma_1polyhedra_1library_MIP_-1Problem_get_1control_1parameter(), Java_parma_1polyhedra_1library_MIP_1Problem_integer_-1space_1dimensions(), Java_parma_1polyhedra_1library_MIP_1Problem_is_1satisfiable(), Java_-parma_1polyhedra_1library_MIP_1Problem_max_1space_1dimension(), Java_parma_1polyhedra_-1library_MIP_1Problem_objective_1function(), Java_parma_1polyhedra_1library_MIP_1Problem_-OK(), Java_parma_1polyhedra_1library_MIP_1Problem_optimal_1value(), Java_parma_1polyhedra_-1library_MIP_1Problem_optimization_1mode(), Java_parma_1polyhedra_1library_MIP_1Problem_-optimizing_1point(), Java_parma_1polyhedra_1library_MIP_1Problem_set_1control_1parameter(), Java_parma_1polyhedra_1library_MIP_1Problem_set_1objective_1function(), Java_parma_1polyhedra_-1library_MIP_1Problem_set_1optimization_1mode(), Java_parma_1polyhedra_1library_MIP_-1Problem_solve(), Java_parma_1polyhedra_1library_MIP_1Problem_space_1dimension(), Java_-parma_1polyhedra_1library_MIP_1Problem_total_1memory_1in_1bytes(), Java_parma_1polyhedra_-1library_Parma_1Polyhedra_1Library_irrational_1precision(), Java_parma_1polyhedra_1library_-Parma_1Polyhedra_1Library_reset_1deterministic_1timeout(), Java_parma_1polyhedra_1library_-Parma_1Polyhedra_1Library_reset_1timeout(), Java_parma_1polyhedra_1library_Parma_1Polyhedra_-1Library_restore_1pre_1PPL_1rounding(), Java_parma_1polyhedra_1library_Parma_1Polyhedra_-1Library_set_1deterministic_1timeout(), Java_parma_1polyhedra_1library_Parma_1Polyhedra_-1Library_set_1irrational_1precision(), Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_-set_1rounding_1for_1PPL(), Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_set_-1timeout(), Java_parma_1polyhedra_1library_Partial_1Function_build_1cpp_1object(), Java_parma_-1polyhedra_1library_Partial_1Function_has_1empty_1codomain(), Java_parma_1polyhedra_1library_-Partial_1Function_insert(), Java_parma_1polyhedra_1library_Partial_1Function_max_1in_1codomain(), Java_parma_1polyhedra_1library_PIP_1Decision_1Node_child_1node(), Java_parma_1polyhedra_-1library_PIP_1Problem_add_1constraint(), Java_parma_1polyhedra_1library_PIP_1Problem_add_-1constraints(), Java_parma_1polyhedra_1library_PIP_1Problem_add_1space_1dimensions_1and_-1embed(), Java_parma_1polyhedra_1library_PIP_1Problem_add_1to_1parameter_1space_1dimensions(), Java_parma_1polyhedra_1library_PIP_1Problem_ascii_1dump(), Java_parma_1polyhedra_1library_-PIP_1Problem_build_1cpp_1object__J(), Java_parma_1polyhedra_1library_PIP_1Problem_build_-1cpp_1object__JLparma_1polyhedra_1library_Constraint_1System_2Lparma_1polyhedra_1library_-Variables_1Set_2(), Java_parma_1polyhedra_1library_PIP_1Problem_constraint_1at_1index(), Java_-parma_1polyhedra_1library_PIP_1Problem_constraints(), Java_parma_1polyhedra_1library_PIP_-1Problem_external_1memory_1in_1bytes(), Java_parma_1polyhedra_1library_PIP_1Problem_get_-1big_1parameter_1dimension(), Java_parma_1polyhedra_1library_PIP_1Problem_get_1pip_1problem_-1control_1parameter(), Java_parma_1polyhedra_1library_PIP_1Problem_is_1satisfiable(), Java_parma_-1polyhedra_1library_PIP_1Problem_max_1space_1dimension(), Java_parma_1polyhedra_1library_-PIP_1Problem_number_1of_1constraints(), Java_parma_1polyhedra_1library_PIP_1Problem_number_-1of_1parameter_1space_1dimensions(), Java_parma_1polyhedra_1library_PIP_1Problem_OK(), Java_-parma_1polyhedra_1library_PIP_1Problem_optimizing_1solution(), Java_parma_1polyhedra_1library_-PIP_1Problem_parameter_1space_1dimensions(), Java_parma_1polyhedra_1library_PIP_1Problem_-set_1big_1parameter_1dimension(), Java_parma_1polyhedra_1library_PIP_1Problem_set_1pip_-

1problem_1control_1parameter(), Java_parma_1polyhedra_1library_PIP_1Problem_solution(), Java_-parma_1polyhedra_1library_PIP_1Problem_solve(), Java_parma_1polyhedra_1library_PIP_1Problem_-space_1dimension(), Java_parma_1polyhedra_1library_PIP_1Problem_total_1memory_1in_1bytes(), Java_parma_1polyhedra_1library_PIP_1Tree_1Node_artificials(), Java_parma_1polyhedra_1library_-PIP_1Tree_1Node_as_1decision(), Java_parma_1polyhedra_1library_PIP_1Tree_1Node_as_1solution(), Java_parma_1polyhedra_1library_PIP_1Tree_1Node_constraints(), Java_parma_1polyhedra_1library_-PIP_1Tree_1Node_number_1of_1artificials(), and Java_parma_1polyhedra_1library_PIP_1Tree_1Node_-OK().

12.154.1.2 #define CHECK_EXCEPTION_ASSERT(env) assert(!env->ExceptionOccurred())

Definition at line 72 of file ppl_java_common.defs.hh.

Referenced by Parma_Polyhedra_Library::Interfaces::Java::build_cxx_system().

12.154.1.3 #define CHECK_EXCEPTION_RETURN(env, val)

Value:

```
do {                                    \
    if (env->ExceptionOccurred())         \
      return val;                         \
  } while (0)
```

Definition at line 79 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_MIP_1Problem_constraints(), Java_parma_-1polyhedra_1library_PIP_1Problem_constraints(), and Java_parma_1polyhedra_1library_PIP_1Tree_-1Node_artificials().

12.154.1.4 #define CHECK_EXCEPTION_RETURN_VOID(env)

Value:

```
do {                                    \
    if (env->ExceptionOccurred())         \
      return;                             \
  } while (0)
```

Definition at line 84 of file ppl_java_common.defs.hh.

12.154.1.5 #define CHECK_EXCEPTION_THROW(env)

Value:

```
do {                                    \
    if (env->ExceptionOccurred())         \
      throw Java_ExceptionOccurred();     \
  } while (0)
```

Definition at line 74 of file ppl_java_common.defs.hh.

Referenced by Parma_Polyhedra_Library::Interfaces::Java::build_cxx_coeff(), Parma_Polyhedra_-Library::Interfaces::Java::build_cxx_system(), and Parma_Polyhedra_Library::Interfaces::Java::build_-linear_expression().

12.154.1.6 #define CHECK_RESULT_ABORT(env, cond)

Value:

```
do {                                    \
    if (!(cond))                          \
      abort();                            \
  } while (0)
```

Definition at line 89 of file ppl_java_common.defs.hh.

12.154.1.7 #define CHECK_RESULT_ASSERT(env, cond) assert(cond)

Definition at line 94 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_Artificial_1Parameter_1Sequence_initIDs(), Java_parma_1polyhedra_1library_Artificial_1Parameter_initIDs(), Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_1Overflow_initIDs(), Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_1Representation_initIDs(), Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_1Width_initIDs(), Java_parma_1polyhedra_1library_By_1Reference_initIDs(), Java_parma_1polyhedra_1library_Coefficient_initIDs(), Java_parma_1polyhedra_1library_Complexity_1Class_initIDs(), Java_parma_1polyhedra_1library_Congruence_1System_initIDs(), Java_parma_1polyhedra_1library_Congruence_initIDs(), Java_parma_1polyhedra_1library_Constraint_1System_initIDs(), Java_parma_1polyhedra_1library_Constraint_initIDs(), Java_parma_1polyhedra_1library_Degenerate_1Element_initIDs(), Java_parma_1polyhedra_1library_Generator_1System_initIDs(), Java_parma_1polyhedra_1library_Generator_1Type_initIDs(), Java_parma_1polyhedra_1library_Generator_initIDs(), Java_parma_1polyhedra_1library_Grid_1Generator_1System_initIDs(), Java_parma_1polyhedra_1library_Grid_1Generator_1Type_initIDs(), Java_parma_1polyhedra_1library_Grid_1Generator_initIDs(), Java_parma_1polyhedra_1library_Linear_1Expression_1Coefficient_initIDs(), Java_parma_1polyhedra_1library_Linear_1Expression_1Difference_initIDs(), Java_parma_1polyhedra_1library_Linear_1Expression_1Sum_initIDs(), Java_parma_1polyhedra_1library_Linear_1Expression_1Times_initIDs(), Java_parma_1polyhedra_1library_Linear_1Expression_1Unary_1Minus_initIDs(), Java_parma_1polyhedra_1library_Linear_1Expression_1Variable_initIDs(), Java_parma_1polyhedra_1library_Linear_1Expression_initIDs(), Java_parma_1polyhedra_1library_MIP_1Problem_1Status_initIDs(), Java_parma_1polyhedra_1library_Optimization_1Mode_initIDs(), Java_parma_1polyhedra_1library_Pair_initIDs(), Java_parma_1polyhedra_1library_PIP_1Decision_1Node_child_1node(), Java_parma_1polyhedra_1library_PIP_1Problem_1Status_initIDs(), Java_parma_1polyhedra_1library_PIP_1Problem_optimizing_1solution(), Java_parma_1polyhedra_1library_PIP_1Problem_solution(), Java_parma_1polyhedra_1library_PIP_1Tree_1Node_as_1decision(), Java_parma_1polyhedra_1library_PIP_1Tree_1Node_as_1solution(), Java_parma_1polyhedra_1library_Poly_1Con_1Relation_initIDs(), Java_parma_1polyhedra_1library_Poly_1Gen_1Relation_initIDs(), Java_parma_1polyhedra_1library_PPL_1Object_initIDs(), Java_parma_1polyhedra_1library_Relation_1Symbol_initIDs(), Java_parma_1polyhedra_1library_Variable_initIDs(), and Java_parma_1polyhedra_1library_Variables_1Set_initIDs().

12.154.1.8 #define CHECK_RESULT_RETURN(env, cond, val)

Value:

```
do {                                    \
    if (!(cond))                          \
      return val;                         \
  } while (0)
```

Definition at line 101 of file ppl_java_common.defs.hh.

Referenced by Java_parma_1polyhedra_1library_IO_wrap_1string(), Java_parma_1polyhedra_1library_-MIP_1Problem_constraints(), Java_parma_1polyhedra_1library_MIP_1Problem_objective_1function(), Java_parma_1polyhedra_1library_PIP_1Decision_1Node_child_1node(), Java_parma_1polyhedra_-1library_PIP_1Problem_constraints(), Java_parma_1polyhedra_1library_PIP_1Problem_optimizing_-1solution(), Java_parma_1polyhedra_1library_PIP_1Problem_solution(), Java_parma_1polyhedra_-1library_PIP_1Tree_1Node_artificials(), Java_parma_1polyhedra_1library_PIP_1Tree_1Node_as_-1decision(), Java_parma_1polyhedra_1library_PIP_1Tree_1Node_as_1solution(), and Java_parma_-1polyhedra_1library_PIP_1Tree_1Node_constraints().

12.154.1.9 #define CHECK_RESULT_RETURN_VOID(env, cond)

Value:

```
do {                                        \
    if (!(cond))                              \
      return;                                 \
  } while (0)
```

Definition at line 106 of file ppl_java_common.defs.hh.

12.154.1.10 #define CHECK_RESULT_THROW(env, cond)

Value:

```
do {                                    \
    if (!(cond))                          \
      throw Java_ExceptionOccurred();     \
  } while (0)
```

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

Referenced by Parma_Polyhedra_Library::Interfaces::Java::build_cxx_coeff(), Parma_Polyhedra_-Library::Interfaces::Java::build_java_coeff(), Parma_Polyhedra_Library::Interfaces::Java::build_java_-variable(), and Parma_Polyhedra_Library::Interfaces::Java::build_linear_expression().

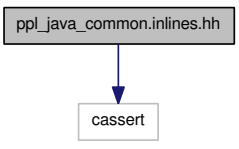
12.154.1.11 #define PPL_NO_AUTOMATIC_INITIALIZATION

Definition at line 27 of file ppl_java_common.defs.hh.

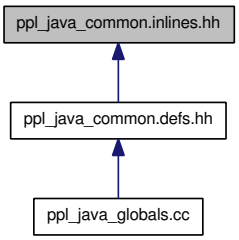
12.155 ppl_java_common.inlines.hh File Reference

```
#include <cassert>
```

Include dependency graph for ppl_java_common.inlines.hh:



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::Java

Functions

- template<typename U , typename V >
  U Parma_Polyhedra_Library::Interfaces::Java::jtype_to_unsigned (const V &value)

  Builds an unsigned C++ number from the Java native number `value`.

- template<typename T >
  void Parma_Polyhedra_Library::Interfaces::Java::set_ptr (JNIEnv *env, jobject ppl_object, const T *address, bool to_be_marked=false)

  Sets the pointer of the underlying C++ object in the Java object.

- void * Parma_Polyhedra_Library::Interfaces::Java::get_ptr (JNIEnv *env, jobject ppl_object)

  Returns a pointer to the C++ object wrapped by `ppl_object`.

- bool Parma_Polyhedra_Library::Interfaces::Java::is_java_marked (JNIEnv *env, jobject ppl_object)

  Returns `true` *if and only if the Java object* `ppl_object` *refers to a C++ object.*

- void Parma_Polyhedra_Library::Interfaces::Java::set_coefficient (JNIEnv *env, jobject dst, jobject src)

  Sets Java Coefficient `dst` *to have the same value as* `src`.

- void Parma_Polyhedra_Library::Interfaces::Java::set_by_reference (JNIEnv *env, jobject by_ref_dst, jobject src)

  Modifies parma_polyhedra_library::By_Reference object `by_ref_dst` *so that it references object* `src`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::get_by_reference (JNIEnv *env, jobject by_reference)

  Returns the object referenced by parma_polyhedra_library::By_Reference object `by_reference`.

- template<typename R >
  jobject Parma_Polyhedra_Library::Interfaces::Java::build_linear_expression (JNIEnv *env, const R &r)

Builds a Java parma_polyhedra_library::Linear_Expression from the C++ constraint/congruence `r`.

- Variable Parma_Polyhedra_Library::Interfaces::Java::build_cxx_variable (JNIEnv *env, jobject j_var)

  Builds a C++ Variable from Java parma_polyhedra_library::Variable `j_var`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_variable (JNIEnv *env, const Variable &var)

  Builds a Java parma_polyhedra_library::Variable from C++ Variable `var`.

- Coefficient Parma_Polyhedra_Library::Interfaces::Java::build_cxx_coeff (JNIEnv *env, jobject j_coeff)

  Builds a C++ Coefficient from Java parma_polyhedra_library::Coefficient `j_coeff`.

- jobject Parma_Polyhedra_Library::Interfaces::Java::build_java_coeff (JNIEnv *env, const Coefficient &ppl_coeff)

  Builds a Java parma_polyhedra_library::Coefficient from C++ Coefficient `ppl_coeff`.

- template<typename System , typename Elem_Builder >
  System Parma_Polyhedra_Library::Interfaces::Java::build_cxx_system (JNIEnv *env, jobject j_iterable, Elem_Builder build_cxx_elem)
- Congruence_System Parma_Polyhedra_Library::Interfaces::Java::build_cxx_congruence_system (JNIEnv *env, jobject j_cgs)

  Builds a C++ Congruence_System from Java parma_polyhedra_library::Congruence_System `j_cgs`.

- Constraint_System Parma_Polyhedra_Library::Interfaces::Java::build_cxx_constraint_system (JNIEnv *env, jobject j_cs)

  Builds a C++ Constraint_System from Java parma_polyhedra_library::Constraint_System `j_cs`.

- Generator_System Parma_Polyhedra_Library::Interfaces::Java::build_cxx_generator_system (JNIEnv *env, jobject j_gs)

  Builds a C++ Generator_System from Java parma_polyhedra_library::Generator_System `j_gs`.

- Grid_Generator_System Parma_Polyhedra_Library::Interfaces::Java::build_cxx_grid_generator_system (JNIEnv *env, jobject j_gs)

  Builds a C++ Grid_Generator_System from Java parma_polyhedra_library::Grid_Generator_System `j_gs`.

12.156 ppl_java_globals.cc File Reference

```
#include "ppl_java_common.defs.hh"
#include "parma_polyhedra_library_Artificial_Parameter.h"
#include "parma_polyhedra_library_Artificial_Parameter_Sequence.h"
#include "parma_polyhedra_library_Bounded_Integer_Type_Overflow.h"
#include "parma_polyhedra_library_Bounded_Integer_Type_-
Representation.h"
#include "parma_polyhedra_library_Bounded_Integer_Type_Width.h"
```

```
#include "parma_polyhedra_library_By_Reference.h"
#include "parma_polyhedra_library_Coefficient.h"
#include "parma_polyhedra_library_Complexity_Class.h"
#include "parma_polyhedra_library_Congruence.h"
#include "parma_polyhedra_library_Congruence_System.h"
#include "parma_polyhedra_library_Constraint.h"
#include "parma_polyhedra_library_Constraint_System.h"
#include "parma_polyhedra_library_Degenerate_Element.h"
#include "parma_polyhedra_library_Generator.h"
#include "parma_polyhedra_library_Generator_System.h"
#include "parma_polyhedra_library_Generator_Type.h"
#include "parma_polyhedra_library_Grid_Generator.h"
#include "parma_polyhedra_library_Grid_Generator_System.h"
#include "parma_polyhedra_library_Grid_Generator_Type.h"
#include "parma_polyhedra_library_IO.h"
#include "parma_polyhedra_library_Linear_Expression.h"
#include "parma_polyhedra_library_Linear_Expression_Coefficient.h"
#include "parma_polyhedra_library_Linear_Expression_Difference.h"
#include "parma_polyhedra_library_Linear_Expression_Sum.h"
#include "parma_polyhedra_library_Linear_Expression_Times.h"
#include "parma_polyhedra_library_Linear_Expression_Unary_Minus.h"
#include "parma_polyhedra_library_Linear_Expression_Variable.h"
#include "parma_polyhedra_library_MIP_Problem.h"
#include "parma_polyhedra_library_MIP_Problem_Status.h"
#include "parma_polyhedra_library_Optimization_Mode.h"
#include "parma_polyhedra_library_Pair.h"
#include "parma_polyhedra_library_Parma_Polyhedra_Library.h"
#include "parma_polyhedra_library_Partial_Function.h"
#include "parma_polyhedra_library_PIP_Problem.h"
#include "parma_polyhedra_library_PIP_Problem_Status.h"
#include "parma_polyhedra_library_PIP_Decision_Node.h"
#include "parma_polyhedra_library_PIP_Solution_Node.h"
#include "parma_polyhedra_library_PIP_Tree_Node.h"
#include "parma_polyhedra_library_Poly_Con_Relation.h"
#include "parma_polyhedra_library_Poly_Gen_Relation.h"
#include "parma_polyhedra_library_PPL_Object.h"
```

```
#include "parma_polyhedra_library_Relation_Symbol.h"
#include "parma_polyhedra_library_Variable.h"
#include "parma_polyhedra_library_Variables_Set.h"
```

Include dependency graph for ppl_java_globals.cc:

Functions

- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_-initialize_1library (JNIEnv ∗env, jclass)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_-finalize_1library (JNIEnv ∗env, jclass)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_By_1Reference_initIDs (JNIEnv ∗env, jclass j_by_ref_class)
- JNIEXPORT jint JNICALL Java_parma_1polyhedra_1library_Coefficient_bits (JNIEnv ∗, jclass)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Coefficient_initIDs (JNIEnv ∗env, jclass j_coeff_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Complexity_1Class_initIDs (JNIEnv ∗env, jclass j_complexity_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Congruence_initIDs (JNIEnv ∗env, jclass j_congruence_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Congruence_1System_initIDs (JNIEnv ∗env, jclass j_con_sys_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Constraint_initIDs (JNIEnv ∗env, jclass j_constraint_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Constraint_1System_initIDs (JNIEnv ∗env, jclass j_con_sys_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Degenerate_1Element_initIDs (JNIEnv ∗env, jclass j_degenerate_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Generator_initIDs (JNIEnv ∗env, jclass j_generator_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Generator_1System_initIDs (JNIEnv ∗env, jclass j_gen_sys_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Generator_1Type_initIDs (JNIEnv ∗env, jclass j_gen_type_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Grid_1Generator_initIDs (JNIEnv ∗env, jclass j_grid_generator_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Grid_1Generator_1System_initIDs (JNIEnv ∗env, jclass j_gen_sys_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Grid_1Generator_1Type_initIDs (JNIEnv ∗env, jclass j_grid_gen_type_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Linear_1Expression_initIDs (JNIEnv ∗env, jclass j_le_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Linear_1Expression_1Coefficient_-initIDs (JNIEnv ∗env, jclass j_le_coeff_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Linear_1Expression_1Difference_-initIDs (JNIEnv ∗env, jclass j_le_diff_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Linear_1Expression_1Sum_initIDs (JNIEnv ∗env, jclass j_le_sum_class)

- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Linear_1Expression_1Times_-initIDs (JNIEnv *env, jclass j_le_times_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Linear_1Expression_1Unary_-1Minus_initIDs (JNIEnv *env, jclass j_le_uminus_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Linear_1Expression_1Variable_-initIDs (JNIEnv *env, jclass j_le_var_class)
- JNIEXPORT jboolean JNICALL Java_parma_1polyhedra_1library_Linear_1Expression_is_1zero (JNIEnv *env, jobject j_this)
- JNIEXPORT jboolean JNICALL Java_parma_1polyhedra_1library_Linear_1Expression_all_-1homogeneous_1terms_1are_1zero (JNIEnv *env, jobject j_this)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_1Status_initIDs (JNIEnv *env, jclass j_mip_status_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_1Status_initIDs (JNIEnv *env, jclass j_mip_status_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Optimization_1Mode_initIDs (JNIEnv *env, jclass j_opt_mode_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Pair_initIDs (JNIEnv *env, jclass j_pair_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Poly_1Con_1Relation_initIDs (JNIEnv *env, jclass j_poly_con_relation_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Poly_1Gen_1Relation_initIDs (JNIEnv *env, jclass j_poly_gen_relation_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PPL_1Object_initIDs (JNIEnv *env, jclass j_ppl_object_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Relation_1Symbol_initIDs (JNIEnv *env, jclass j_rel_sym_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_-1Overflow_initIDs (JNIEnv *env, jclass j_bounded_overflow_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_-1Representation_initIDs (JNIEnv *env, jclass j_bounded_rep_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Bounded_1Integer_1Type_-1Width_initIDs (JNIEnv *env, jclass j_bounded_width_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Variable_initIDs (JNIEnv *env, jclass j_variable_class)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Variables_1Set_initIDs (JNIEnv *env, jclass j_vset_class)
- JNIEXPORT jint JNICALL Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_-version_1major (JNIEnv *, jclass)
- JNIEXPORT jint JNICALL Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_-version_1minor (JNIEnv *, jclass)
- JNIEXPORT jint JNICALL Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_-version_1revision (JNIEnv *, jclass)
- JNIEXPORT jint JNICALL Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_-version_1beta (JNIEnv *, jclass)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_-version (JNIEnv *env, jclass)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_-banner (JNIEnv *env, jclass)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_set_-1rounding_1for_1PPL (JNIEnv *env, jclass)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_-restore_1pre_1PPL_1rounding (JNIEnv *env, jclass)

- JNIEXPORT jint JNICALL Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_-irrational_1precision (JNIEnv *env, jclass)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_set_-1irrational_1precision (JNIEnv *env, jclass, jint p)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_set_-1timeout (JNIEnv *env, jclass, jint hsecs)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_-reset_1timeout (JNIEnv *env, jclass)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_set_-1deterministic_1timeout (JNIEnv *env, jclass, jint weight)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Parma_1Polyhedra_1Library_-reset_1deterministic_1timeout (JNIEnv *env, jclass)
- JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_max_1space_-1dimension (JNIEnv *env, jobject j_this_mip_problem)
- JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_space_1dimension (JNIEnv *env, jobject j_this_mip_problem)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_integer_-1space_1dimensions (JNIEnv *env, jobject j_this_mip_problem)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_objective_-1function (JNIEnv *env, jobject j_this_mip_problem)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_optimization_-1mode (JNIEnv *env, jobject j_this_mip_problem)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_get_1control_-1parameter (JNIEnv *env, jobject j_this_mip_problem, jobject j_cpn)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_set_1control_-1parameter (JNIEnv *env, jobject j_this_mip_problem, jobject j_cpv)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_constraints (JNIEnv *env, jobject j_this_mip_problem)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_clear (JNIEnv *env, jobject j_this_mip_problem)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_add_1space_-1dimensions_1and_1embed (JNIEnv *env, jobject j_this_mip_problem, jlong j_dim)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_add_1to_-1integer_1space_1dimensions (JNIEnv *env, jobject j_this_mip_problem, jobject j_vset)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_add_1constraint (JNIEnv *env, jobject j_this_mip_problem, jobject j_c)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_add_1constraints (JNIEnv *env, jobject j_this_mip_problem, jobject j_cs)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_set_1objective_-1function (JNIEnv *env, jobject j_this_mip_problem, jobject j_le)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_set_-1optimization_1mode (JNIEnv *env, jobject j_this_mip_problem, jobject j_opt_mode)
- JNIEXPORT jboolean JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_is_1satisfiable (JNIEnv *env, jobject j_this_mip_problem)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_solve (JNIEnv *env, jobject j_this_mip_problem)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_evaluate_-1objective_1function (JNIEnv *env, jobject j_this_mip_problem, jobject j_gen, jobject j_coeff_num, jobject j_coeff_den)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_feasible_1point (JNIEnv *env, jobject j_this_mip_problem)

- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_optimizing_-1point (JNIEnv *env, jobject j_this_mip_problem)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_optimal_1value (JNIEnv *env, jobject j_this_mip_problem, jobject j_coeff_num, jobject j_coeff_den)
- JNIEXPORT jboolean JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_OK (JNIEnv *env, jobject j_this_mip_problem)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_build_1cpp_-1object__J (JNIEnv *env, jobject j_this_mip_problem, jlong j_dim)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_build_1cpp_-1object__JLparma_1polyhedra_1library_Constraint_1System_2Lparma_1polyhedra_1library_-Linear_1Expression_2Lparma_1polyhedra_1library_Optimization_1Mode_2 (JNIEnv *env, jobject j_this_mip_problem, jlong j_dim, jobject j_cs, jobject j_le, jobject j_opt_mode)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_build_1cpp_-1object__Lparma_1polyhedra_1library_MIP_1Problem_2 (JNIEnv *env, jobject j_this, jobject j_y)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_free (JNIEnv *env, jobject j_this)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_finalize (JNIEnv *env, jobject j_this)
- JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_total_1memory_-1in_1bytes (JNIEnv *env, jobject j_this_mip_problem)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_toString (JNIEnv *env, jobject j_this)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_ascii_1dump (JNIEnv *env, jobject j_this)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Linear_1Expression_toString (JNIEnv *env, jobject j_this)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Linear_1Expression_ascii_-1dump (JNIEnv *env, jobject j_this)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Generator_toString (JNIEnv *env, jobject g)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Generator_ascii_1dump (JNIEnv *env, jobject j_this)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Constraint_toString (JNIEnv *env, jobject c)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Constraint_ascii_1dump (JNIEnv *env, jobject j_this)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Grid_1Generator_toString (JNIEnv *env, jobject g)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Grid_1Generator_ascii_1dump (JNIEnv *env, jobject j_this)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Congruence_toString (JNIEnv *env, jobject g)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Congruence_ascii_1dump (JNIEnv *env, jobject j_this)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Grid_1Generator_1System_-toString (JNIEnv *env, jobject ggs)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Grid_1Generator_1System_-ascii_1dump (JNIEnv *env, jobject j_this)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Generator_1System_toString (JNIEnv *env, jobject gs)

- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Generator_1System_ascii_1dump (JNIEnv *env, jobject j_this)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Constraint_1System_toString (JNIEnv *env, jobject cs)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Constraint_1System_ascii_-1dump (JNIEnv *env, jobject j_this)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Congruence_1System_toString (JNIEnv *env, jobject cgs)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Congruence_1System_ascii_-1dump (JNIEnv *env, jobject j_this)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_IO_wrap_1string (JNIEnv *env, jclass, jstring str, jint indent_depth, jint preferred_first_line_length, jint preferred_line_length)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_build_1cpp_-1object__J (JNIEnv *env, jobject j_this_pip_problem, jlong j_dim)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_build_1cpp_-1object__JLparma_1polyhedra_1library_Constraint_1System_2Lparma_1polyhedra_1library_-Variables_1Set_2 (JNIEnv *env, jobject j_this_pip_problem, jlong j_dim, jobject j_cs, jobject j_vars)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_build_1cpp_-1object__Lparma_1polyhedra_1library_PIP_1Problem_2 (JNIEnv *env, jobject j_this, jobject j_y)
- JNIEXPORT jboolean JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_OK (JNIEnv *env, jobject j_this_pip_problem)
- JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_total_1memory_-1in_1bytes (JNIEnv *env, jobject j_this_pip_problem)
- JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_external_-1memory_1in_1bytes (JNIEnv *env, jobject j_this_pip_problem)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_toString (JNIEnv *env, jobject j_this)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_ascii_1dump (JNIEnv *env, jobject j_this)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_free (JNIEnv *env, jobject j_this)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1_problem_finalize (JNIEnv *env, jobject j_this)
- JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_max_1space_-1dimension (JNIEnv *env, jobject j_this_pip_problem)
- JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_space_1dimension (JNIEnv *env, jobject j_this_pip_problem)
- JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_get_1big_-1parameter_1dimension (JNIEnv *env, jobject j_this_pip_problem)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_parameter_-1space_1dimensions (JNIEnv *env, jobject j_this_pip_problem)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_set_1big_-1parameter_1dimension (JNIEnv *env, jobject j_this_pip_problem, jlong j_dim)
- JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_number_1of_-1parameter_1space_1dimensions (JNIEnv *env, jobject j_this_pip_problem)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_add_1space_-1dimensions_1and_1embed (JNIEnv *env, jobject j_this_pip_problem, jlong j_dim_vars, jlong j_dim_pars)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_add_1to_-1parameter_1space_1dimensions (JNIEnv *env, jobject j_this_pip_problem, jobject j_vars)

- JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_number_1of_-1constraints (JNIEnv *env, jobject j_this_pip_problem)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_add_1constraint (JNIEnv *env, jobject j_this_pip_problem, jobject j_c)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_add_1constraints (JNIEnv *env, jobject j_this_pip_problem, jobject j_cs)
- JNIEXPORT jboolean JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_is_1satisfiable (JNIEnv *env, jobject j_this_pip_problem)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_solve (JNIEnv *env, jobject j_this_pip_problem)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_solution (JNIEnv *env, jobject j_this_pip_problem)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_optimizing_-1solution (JNIEnv *env, jobject j_this_pip_problem)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_get_1pip_-1problem_1control_1parameter (JNIEnv *env, jobject j_this_pip_problem, jobject j_cpn)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_constraint_1at_-1index (JNIEnv *env, jobject j_this_pip_problem, jlong j_index)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_constraints (JNIEnv *env, jobject j_this_pip_problem)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_set_1pip_-1problem_1control_1parameter (JNIEnv *env, jobject j_this_pip_problem, jobject j_cpv)
- JNIEXPORT jboolean JNICALL Java_parma_1polyhedra_1library_PIP_1Tree_1Node_OK (JNIEnv *env, jobject j_this_pip_tree)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Tree_1Node_free (JNIEnv *env, jobject j_this)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Tree_1Node_finalize (JNIEnv *env, jobject j_this)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Tree_1Node_constraints (JNIEnv *env, jobject j_this_pip_node)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Tree_1Node_as_1solution (JNIEnv *env, jobject j_this)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Tree_1Node_as_1decision (JNIEnv *env, jobject j_this)
- JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_PIP_1Tree_1Node_number_1of_-1artificials (JNIEnv *env, jobject j_this)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Tree_1Node_artificials (JNIEnv *env, jobject j_this_pip_node)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_PIP_1Tree_1Node_toString (JNIEnv *env, jobject j_this)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Decision_1Node_child_-1node (JNIEnv *env, jobject j_this, jboolean j_branch)
- JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Solution_1Node_-parametric_1values (JNIEnv *env, jobject j_this, jobject j_var)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Artificial_1Parameter_initIDs (JNIEnv *env, jclass j_artificial_parameter_class)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Artificial_1Parameter_ascii_-1dump (JNIEnv *env, jobject j_this)
- JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Artificial_1Parameter_toString (JNIEnv *env, jobject j_this)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Artificial_1Parameter_1Sequence_-initIDs (JNIEnv *env, jclass j_aps_class)

- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Partial_1Function_build_1cpp_-1object (JNIEnv ∗env, jobject j_this_pfunc)
- JNIEXPORT jboolean JNICALL Java_parma_1polyhedra_1library_Partial_1Function_has_-1empty_1codomain (JNIEnv ∗env, jobject j_this_pfunc)
- JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_Partial_1Function_max_1in_-1codomain (JNIEnv ∗env, jobject j_this_pfunc)
- JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_Partial_1Function_maps (JNIEnv ∗env, jobject j_this_pfunc, jlong j_i)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Partial_1Function_insert (JNIEnv ∗env, jobject j_this_pfunc, jlong i, jlong j)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Partial_1Function_free (JNIEnv ∗env, jobject j_this)
- JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Partial_1Function_finalize (JNIEnv ∗env, jobject j_this)

12.156.1 Function Documentation

12.156.1.1 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_-Artificial_1Parameter_1Sequence_initIDs (JNIEnv ∗ *env*, jclass *j_aps_class*)

Definition at line 2112 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Artificial_Parameter_-Sequence_add_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Artificial_-Parameter_Sequence_init_ID, Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, and CHECK_RESULT_ASSERT.

12.156.1.2 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_-Artificial_1Parameter_ascii_1dump (JNIEnv ∗ *env*, jobject *j_this*)

Definition at line 2087 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_artificial_parameter(), and CATCH_-ALL.

12.156.1.3 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Artificial_-1Parameter_initIDs (JNIEnv ∗ *env*, jclass *j_artificial_parameter_class*)

Definition at line 2067 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Artificial_Parameter_-den_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Artificial_Parameter_init_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Artificial_Parameter_le_ID, Parma_-Polyhedra_Library::Interfaces::Java::cached_FMIDs, and CHECK_RESULT_ASSERT.

12.156.1.4 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Artificial_-1Parameter_toString (JNIEnv * *env*, jobject *j_this*)

Definition at line 2101 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_artificial_parameter().

12.156.1.5 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_-Bounded_1Integer_1Type_1Overflow_initIDs (JNIEnv * *env*, jclass *j_bounded_overflow_class*)

Definition at line 607 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Bounded_-Integer_Type_Overflow_ordinal_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Bounded_Integer_Type_Overflow_OVERFLOW_IMPOSSIBLE_ID, Parma_Polyhedra_-Library::Interfaces::Java::Java_FMID_Cache::Bounded_Integer_Type_Overflow_OVERFLOW_-UNDEFINED_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Bounded_Integer_-Type_Overflow_OVERFLOW_WRAPS_ID, Parma_Polyhedra_Library::Interfaces::Java::cached_-FMIDs, and CHECK_RESULT_ASSERT.

12.156.1.6 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_-Bounded_1Integer_1Type_1Representation_initIDs (JNIEnv * *env*, jclass *j_bounded_rep_class*)

Definition at line 629 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Bounded_Integer_-Type_Representation_ordinal_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Bounded_Integer_Type_Representation_SIGNED_2_COMPLEMENT_ID, Parma_Polyhedra_-Library::Interfaces::Java::Java_FMID_Cache::Bounded_Integer_Type_Representation_UNSIGNED_ID, Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, and CHECK_RESULT_ASSERT.

12.156.1.7 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_-Bounded_1Integer_1Type_1Width_initIDs (JNIEnv * *env*, jclass *j_bounded_width_class*)

Definition at line 647 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Bounded_Integer_Type_-Width_BITS_128_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Bounded_-Integer_Type_Width_BITS_16_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Bounded_Integer_Type_Width_BITS_32_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_-FMID_Cache::Bounded_Integer_Type_Width_BITS_64_ID, Parma_Polyhedra_-Library::Interfaces::Java::Java_FMID_Cache::Bounded_Integer_Type_Width_BITS_8_ID, Parma_-Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Bounded_Integer_Type_Width_ordinal_ID, Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, and CHECK_RESULT_ASSERT.

12.156.1.8 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_By_1Reference_-initIDs (JNIEnv * *env*, jclass *j_by_ref_class*)

Definition at line 90 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::By_Reference_init_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::By_Reference_obj_ID, Parma_-Polyhedra_Library::Interfaces::Java::cached_FMIDs, and CHECK_RESULT_ASSERT.

12.156.1.9 JNIEXPORT jint JNICALL Java_parma_1polyhedra_1library_Coefficient_bits (JNIEnv *, jclass)

Definition at line 102 of file ppl_java_globals.cc.

12.156.1.10 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Coefficient_initIDs (JNIEnv * *env*, jclass *j_coeff_class*)

Definition at line 108 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Boolean, Parma_-Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Boolean_valueOf_ID, Parma_Polyhedra_-Library::Interfaces::Java::cached_classes, Parma_Polyhedra_Library::Interfaces::Java::cached_-FMIDs, CHECK_RESULT_ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Coefficient_init_from_String_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_-FMID_Cache::Coefficient_toString_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Coefficient_value_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Integer, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Integer_intValue_ID, Parma_-Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Integer_valueOf_ID, Parma_Polyhedra_-Library::Interfaces::Java::Java_Class_Cache::Long, Parma_Polyhedra_Library::Interfaces::Java::Java_-FMID_Cache::Long_longValue_ID, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Long_valueOf_ID.

12.156.1.11 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Complexity_-1Class_initIDs (JNIEnv * *env*, jclass *j_complexity_class*)

Definition at line 145 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Complexity_Class_ordinal_ID.

12.156.1.12 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_-Congruence_1System_ascii_1dump (JNIEnv * *env*, jobject *j_this*)

Definition at line 1465 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_congruence_system(), and CATCH_-ALL.

12.156.1.13 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Congruence_-1System_initIDs (JNIEnv * *env*, jclass *j_con_sys_class*)

Definition at line 178 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Congruence_System_add_ID, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Congruence_System_init_ID.

12.156.1.14 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_-1library_Congruence_1System_toString (JNIEnv * *env*, jobject *cgs*)

Definition at line 1455 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_congruence_system().

12.156.1.15 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Congruence_-ascii_1dump (JNIEnv * *env*, jobject *j_this*)

Definition at line 1372 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_congruence(), and CATCH_ALL.

12.156.1.16 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Congruence_initIDs (JNIEnv * *env*, jclass *j_congruence_class*)

Definition at line 153 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_-ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Congruence_init_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Congruence_lhs_ID, Parma_-Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Congruence_mod_ID, and Parma_Polyhedra_-Library::Interfaces::Java::Java_FMID_Cache::Congruence_rhs_ID.

12.156.1.17 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Congruence_-toString (JNIEnv * *env*, jobject *g*)

Definition at line 1362 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_congruence().

12.156.1.18 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_-1library_Constraint_1System_ascii_1dump (JNIEnv * *env*, jobject *j_this*)

Definition at line 1442 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_constraint_system(), and CATCH_-ALL.

12.156.1.19 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Constraint_-1System_initIDs (JNIEnv * *env*, jclass *j_con_sys_class*)

Definition at line 215 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_classes, Parma_Polyhedra_-Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, Parma_Polyhedra_-Library::Interfaces::Java::Java_FMID_Cache::Constraint_System_add_ID, Parma_Polyhedra_-Library::Interfaces::Java::Java_FMID_Cache::Constraint_System_init_ID, Parma_Polyhedra_-Library::Interfaces::Java::Java_Class_Cache::Iterator, Parma_Polyhedra_Library::Interfaces::Java::Java_-FMID_Cache::System_Iterator_has_next_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_-FMID_Cache::System_iterator_ID, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::System_Iterator_next_ID.

12.156.1.20 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_-1library_Constraint_1System_toString (JNIEnv * *env*, jobject *cs*)

Definition at line 1431 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_constraint_system().

12.156.1.21 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Constraint_ascii_-1dump (JNIEnv * *env*, jobject *j_this*)

Definition at line 1326 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_constraint(), and CATCH_ALL.

12.156.1.22 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Constraint_initIDs (JNIEnv * *env*, jclass *j_constraint_class*)

Definition at line 190 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_-ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Constraint_init_ID,

Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Constraint_kind_ID, Parma_-Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Constraint_lhs_ID, and Parma_Polyhedra_-Library::Interfaces::Java::Java_FMID_Cache::Constraint_rhs_ID.

12.156.1.23 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Constraint_-toString (JNIEnv * *env*, jobject *c*)

Definition at line 1316 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_constraint().

12.156.1.24 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Degenerate_-1Element_initIDs (JNIEnv * *env*, jclass *j_degenerate_class*)

Definition at line 240 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Degenerate_Element_ordinal_ID.

12.156.1.25 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_-1library_Generator_1System_ascii_1dump (JNIEnv * *env*, jobject *j_this*)

Definition at line 1418 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_generator_system(), and CATCH_-ALL.

12.156.1.26 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Generator_-1System_initIDs (JNIEnv * *env*, jclass *j_gen_sys_class*)

Definition at line 289 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Generator_System_add_ID, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Generator_System_init_ID.

12.156.1.27 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_-1library_Generator_1System_toString (JNIEnv * *env*, jobject *gs*)

Definition at line 1408 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_generator_system().

12.156.1.28 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Generator_1Type_-initIDs (JNIEnv * *env*, jclass *j_gen_type_class*)

Definition at line 301 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Generator_Type_ordinal_ID.

12.156.1.29 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Generator_ascii_-1dump (JNIEnv * *env*, jobject *j_this*)

Definition at line 1303 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_generator(), and CATCH_ALL.

12.156.1.30 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Generator_initIDs (JNIEnv * *env*, jclass *j_generator_class*)

Definition at line 248 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_-ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Generator_closure_-point_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Generator_-div_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Generator_gt_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Generator_le_ID, Parma_-Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Generator_line_ID, Parma_Polyhedra_-Library::Interfaces::Java::Java_FMID_Cache::Generator_point_ID, and Parma_Polyhedra_-Library::Interfaces::Java::Java_FMID_Cache::Generator_ray_ID.

12.156.1.31 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Generator_-toString (JNIEnv * *env*, jobject *g*)

Definition at line 1293 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_generator().

12.156.1.32 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_-Grid_1Generator_1System_ascii_1dump (JNIEnv * *env*, jobject *j_this*)

Definition at line 1395 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_grid_generator_system(), and CATCH_ALL.

12.156.1.33 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Grid_1Generator_-1System_initIDs (JNIEnv * *env*, jclass *j_gen_sys_class*)

Definition at line 346 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Grid_Generator_System_add_ID, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Grid_Generator_System_init_ID.

12.156.1.34 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_-Grid_1Generator_1System_toString (JNIEnv * *env*, jobject *ggs*)

Definition at line 1385 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_grid_generator_system().

12.156.1.35 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Grid_1Generator_-1Type_initIDs (JNIEnv * *env*, jclass *j_grid_gen_type_class*)

Definition at line 358 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Grid_Generator_Type_ordinal_ID.

12.156.1.36 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_-1library_Grid_1Generator_ascii_1dump (JNIEnv * *env*, jobject *j_this*)

Definition at line 1349 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_grid_generator(), and CATCH_ALL.

12.156.1.37 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Grid_1Generator_-initIDs (JNIEnv * *env*, jclass *j_grid_generator_class*)

Definition at line 310 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Grid_Generator_div_ID, Parma_-Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Grid_Generator_grid_line_ID, Parma_-Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Grid_Generator_grid_point_ID, Parma_-Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Grid_Generator_gt_ID, Parma_Polyhedra_-Library::Interfaces::Java::Java_FMID_Cache::Grid_Generator_le_ID, and Parma_Polyhedra_-Library::Interfaces::Java::Java_FMID_Cache::Grid_Generator_parameter_ID.

12.156.1.38 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_Grid_-1Generator_toString (JNIEnv * *env*, jobject *g*)

Definition at line 1339 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_grid_generator().

12.156.1.39 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_IO_wrap_1string (JNIEnv * *env*, jclass, jstring *str*, jint *indent_depth*, jint *preferred_first_line_length*, jint *preferred_line_length*)

Definition at line 1478 of file ppl_java_globals.cc.

References CATCH_ALL, and CHECK_RESULT_RETURN.

12.156.1.40 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_-Linear_1Expression_1Coefficient_initIDs (JNIEnv * *env*, jclass *j_le_coeff_class*)

Definition at line 383 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_Coefficient_-coeff_ID, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_-Coefficient_init_ID.

12.156.1.41 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_-Linear_1Expression_1Difference_initIDs (JNIEnv * *env*, jclass *j_le_diff_class*)

Definition at line 398 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_Difference_lhs_ID, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_Difference_-rhs_ID.

12.156.1.42 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_-Linear_1Expression_1Sum_initIDs (JNIEnv * *env*, jclass *j_le_sum_class*)

Definition at line 412 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_Sum_lhs_ID, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_Sum_rhs_ID.

12.156.1.43 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_-Linear_1Expression_1Times_initIDs (JNIEnv * *env*, jclass *j_le_times_class*)

Definition at line 426 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_Times_coeff_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_Times_init_from_-coeff_var_ID, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_-Times_lin_expr_ID.

12.156.1.44 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_-Linear_1Expression_1Unary_1Minus_initIDs (JNIEnv * *env*, jclass *j_le_uminus_class*)

Definition at line 446 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_Unary_Minus_-arg_ID.

12.156.1.45 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_-Linear_1Expression_1Variable_initIDs (JNIEnv * *env*, jclass *j_le_var_class*)

Definition at line 456 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_Variable_init_ID, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_Variable_var_-id_ID.

12.156.1.46 JNIEXPORT jboolean JNICALL Java_parma_1polyhedra_1library_Linear_-1Expression_all_1homogeneous_1terms_1are_1zero (JNIEnv * *env*, jobject *j_this*)

Definition at line 479 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_linear_expression(), and CATCH_-ALL.

12.156.1.47 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_-1library_Linear_1Expression_ascii_1dump (JNIEnv * *env*, jobject *j_this*)

Definition at line 1280 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_linear_expression(), and CATCH_-ALL.

12.156.1.48 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Linear_-1Expression_initIDs (JNIEnv * *env*, jclass *j_le_class*)

Definition at line 367 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_sum_ID, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_times_ID.

12.156.1.49 JNIEXPORT jboolean JNICALL Java_parma_1polyhedra_-1library_Linear_1Expression_is_1zero (JNIEnv * *env*, jobject *j_this*)

Definition at line 469 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_linear_expression(), and CATCH_-ALL.

12.156.1.50 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_-1library_Linear_1Expression_toString (JNIEnv * *env*, jobject *j_this*)

Definition at line 1270 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_linear_expression().

12.156.1.51 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_-1Status_initIDs (JNIEnv * *env*, jclass *j_mip_status_class*)

Definition at line 489 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::MIP_Problem_Status_OPTIMIZED_-MIP_PROBLEM_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::MIP_Problem_-Status_ordinal_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::MIP_Problem_-Status_UNBOUNDED_MIP_PROBLEM_ID, and Parma_Polyhedra_Library::Interfaces::Java::Java_-FMID_Cache::MIP_Problem_Status_UNFEASIBLE_MIP_PROBLEM_ID.

12.156.1.52 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_-1Problem_add_1constraint (JNIEnv * *env*, jobject *j_this_mip_problem*, jobject *j_c*)

Definition at line 1034 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_constraint(), CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.53 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_-1Problem_add_1constraints (JNIEnv * *env*, jobject *j_this_mip_problem*, jobject *j_cs*)

Definition at line 1046 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_constraint_system(), CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.54 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_-add_1space_1dimensions_1and_1embed (JNIEnv * *env*, jobject *j_this_mip_problem*, jlong *j_dim*)

Definition at line 1010 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.55 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_-add_1to_1integer_1space_1dimensions (JNIEnv * *env*, jobject *j_this_mip_problem*, jobject *j_vset*)

Definition at line 1022 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_variables_set(), CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.56 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_-1library_MIP_1Problem_ascii_1dump (JNIEnv * *env*, jobject *j_this*)

Definition at line 1256 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.57 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_-build_1cpp_1object__J (JNIEnv * *env*, jobject *j_this_mip_problem*, jlong *j_dim*)

Definition at line 1179 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::set_ptr().

12.156.1.58 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_-build_1cpp_1object__JLparma_1polyhedra_1library_Constraint_1System_-2Lparma_1polyhedra_1library_Linear_1Expression_2Lparma_1polyhedra_-1library_Optimization_1Mode_2 (JNIEnv * *env*, jobject *j_this_mip_problem*, jlong *j_dim*, jobject *j_cs*, jobject *j_le*, jobject *j_opt_mode*)

Definition at line 1190 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_constraint_system(), Parma_-Polyhedra_Library::Interfaces::Java::build_cxx_linear_expression(), Parma_Polyhedra_-Library::Interfaces::Java::build_cxx_optimization_mode(), CATCH_ALL, and Parma_Polyhedra_-Library::Interfaces::Java::set_ptr().

12.156.1.59 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_-build_1cpp_1object__Lparma_1polyhedra_1library_MIP_1Problem_2 (JNIEnv * *env*, jobject *j_this*, jobject *j_y*)

Definition at line 1205 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::get_ptr(), and Parma_Polyhedra_-Library::Interfaces::Java::set_ptr().

12.156.1.60 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_-clear (JNIEnv * *env*, jobject *j_this_mip_problem*)

Definition at line 999 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.61 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_-constraints (JNIEnv * *env*, jobject *j_this_mip_problem*)

Definition at line 974 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_java_constraint(), Parma_Polyhedra_-Library::Interfaces::Java::cached_classes, Parma_Polyhedra_Library::Interfaces::Java::cached_-FMIDs, CATCH_ALL, CHECK_EXCEPTION_RETURN, CHECK_RESULT_RETURN, Parma_-Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Constraint_System, Parma_Polyhedra_-

Library::Interfaces::Java::Java_FMID_Cache::Constraint_System_add_ID, Parma_Polyhedra_-Library::Interfaces::Java::Java_FMID_Cache::Constraint_System_init_ID, and Parma_Polyhedra_-Library::Interfaces::Java::get_ptr().

12.156.1.62 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_-evaluate_1objective_1function (JNIEnv * *env*, jobject *j_this_mip_problem*, jobject *j_gen*, jobject *j_coeff_num*, jobject *j_coeff_den*)

Definition at line 1106 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_generator(), Parma_-Polyhedra_Library::Interfaces::Java::build_java_coeff(), CATCH_ALL, Parma_Polyhedra_-Library::Interfaces::Java::get_ptr(), and Parma_Polyhedra_Library::Interfaces::Java::set_coefficient().

12.156.1.63 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_-1library_MIP_1Problem_feasible_1point (JNIEnv * *env*, jobject *j_this_mip_problem*)

Definition at line 1123 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_java_generator(), CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.64 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_-finalize (JNIEnv * *env*, jobject *j_this*)

Definition at line 1225 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::get_ptr(), and Parma_Polyhedra_-Library::Interfaces::Java::is_java_marked().

12.156.1.65 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_free (JNIEnv * *env*, jobject *j_this*)

Definition at line 1214 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::get_ptr(), Parma_Polyhedra_-Library::Interfaces::Java::is_java_marked(), and Parma_Polyhedra_Library::Interfaces::Java::set_ptr().

12.156.1.66 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_-get_1control_1parameter (JNIEnv * *env*, jobject *j_this_mip_problem*, jobject *j_cpn*)

Definition at line 942 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_control_parameter_name(), Parma_-Polyhedra_Library::Interfaces::Java::build_java_control_parameter_value(), CATCH_ALL, and Parma_-Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.67 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_-MIP_1Problem_integer_1space_1dimensions (JNIEnv * *env*, jobject *j_this_mip_problem*)

Definition at line 890 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_java_variables_set(), CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.68 JNIEXPORT jboolean JNICALL Java_parma_1polyhedra_-1library_MIP_1Problem_is_1satisfiable (JNIEnv * *env*, jobject *j_this_mip_problem*)

Definition at line 1082 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.69 JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_-MIP_1Problem_max_1space_1dimension (JNIEnv * *env*, jobject *j_this_mip_problem*)

Definition at line 866 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.70 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_-MIP_1Problem_objective_1function (JNIEnv * *env*, jobject *j_this_mip_problem*)

Definition at line 903 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_java_coeff(), Parma_-Polyhedra_Library::Interfaces::Java::build_linear_expression(), Parma_Polyhedra_-Library::Interfaces::Java::cached_classes, Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CATCH_ALL, CHECK_RESULT_RETURN, Parma_Polyhedra_Library::Interfaces::Java::get_ptr(), Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Linear_Expression_Coefficient, Parma_-Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_Coefficient_init_ID, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Linear_Expression_sum_ID.

12.156.1.71 JNIEXPORT jboolean JNICALL Java_parma_1polyhedra_1library_MIP_-1Problem_OK (JNIEnv * *env*, jobject *j_this_mip_problem*)

Definition at line 1167 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.72 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_-optimal_1value (JNIEnv * *env*, jobject *j_this_mip_problem*, jobject *j_coeff_num*, jobject *j_coeff_den*)

Definition at line 1151 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_java_coeff(), CATCH_ALL, Parma_-Polyhedra_Library::Interfaces::Java::get_ptr(), and Parma_Polyhedra_Library::Interfaces::Java::set_-coefficient().

12.156.1.73 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_-MIP_1Problem_optimization_1mode (JNIEnv * *env*, jobject *j_this_mip_problem*)

Definition at line 929 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_java_optimization_mode(), CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.74 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_-1library_MIP_1Problem_optimizing_1point (JNIEnv * *env*, jobject *j_this_mip_problem*)

Definition at line 1137 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_java_generator(), CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.75 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_-set_1control_1parameter (JNIEnv * *env*, jobject *j_this_mip_problem*, jobject *j_cpv*)

Definition at line 960 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_control_parameter_value(), CATCH_-ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.76 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_-set_1objective_1function (JNIEnv * *env*, jobject *j_this_mip_problem*, jobject *j_le*)

Definition at line 1058 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_linear_expression(), CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.77 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_-set_1optimization_1mode (JNIEnv * *env*, jobject *j_this_mip_problem*, jobject *j_opt_mode*)

Definition at line 1070 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_optimization_mode(), CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.78 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_-solve (JNIEnv * *env*, jobject *j_this_mip_problem*)

Definition at line 1093 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_java_mip_status(), CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.79 JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_-MIP_1Problem_space_1dimension (JNIEnv * *env*, jobject *j_this_mip_problem*)

Definition at line 878 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.80 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_MIP_1Problem_-toString (JNIEnv * *env*, jobject *j_this*)

Definition at line 1245 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.81 JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_-MIP_1Problem_total_1memory_1in_1bytes (JNIEnv * *env*, jobject *j_this_mip_problem*)

Definition at line 1233 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.82 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Optimization_-1Mode_initIDs (JNIEnv * *env*, jclass *j_opt_mode_class*)

Definition at line 529 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_-ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Optimization_Mode_-MAXIMIZATION_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Optimization_-Mode_MINIMIZATION_ID, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_-Cache::Optimization_Mode_ordinal_ID.

12.156.1.83 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Pair_initIDs (JNIEnv * *env*, jclass *j_pair_class*)

Definition at line 547 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Pair_first_ID, and Parma_Polyhedra_-Library::Interfaces::Java::Java_FMID_Cache::Pair_second_ID.

12.156.1.84 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_-1library_Parma_1Polyhedra_1Library_banner (JNIEnv * *env*, jclass)

Definition at line 743 of file ppl_java_globals.cc.

12.156.1.85 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_-Parma_1Polyhedra_1Library_finalize_1library (JNIEnv * *env*, jclass)

Definition at line 82 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_classes, and Parma_Polyhedra_-Library::Interfaces::Java::Java_Class_Cache::clear_cache().

12.156.1.86 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_-Parma_1Polyhedra_1Library_initialize_1library (JNIEnv * *env*, jclass)

Definition at line 75 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_classes, and Parma_Polyhedra_-Library::Interfaces::Java::Java_Class_Cache::init_cache().

12.156.1.87 JNIEXPORT jint JNICALL Java_parma_1polyhedra_1library_-Parma_1Polyhedra_1Library_irrational_1precision (JNIEnv * *env*, jclass)

Definition at line 767 of file ppl_java_globals.cc.

References CATCH_ALL.

12.156.1.88 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Parma_-1Polyhedra_1Library_reset_1deterministic_1timeout (JNIEnv * *env*, jclass)

Definition at line 850 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::reset_deterministic_timeout().

12.156.1.89 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_-Parma_1Polyhedra_1Library_reset_1timeout (JNIEnv * *env*, jclass)

Definition at line 811 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::reset_timeout().

12.156.1.90 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Parma_-1Polyhedra_1Library_restore_1pre_1PPL_1rounding (JNIEnv * *env*, jclass)

Definition at line 758 of file ppl_java_globals.cc.

References CATCH_ALL.

12.156.1.91 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Parma_-1Polyhedra_1Library_set_1deterministic_1timeout (JNIEnv * *env*, jclass, jint *weight*)

Definition at line 827 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::reset_deterministic_timeout().

12.156.1.92 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Parma_-1Polyhedra_1Library_set_1irrational_1precision (JNIEnv * *env*, jclass, jint *p*)

Definition at line 777 of file ppl_java_globals.cc.

References CATCH_ALL.

12.156.1.93 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_-Parma_1Polyhedra_1Library_set_1rounding_1for_1PPL (JNIEnv * *env*, jclass)

Definition at line 749 of file ppl_java_globals.cc.

References CATCH_ALL.

12.156.1.94 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_-Parma_1Polyhedra_1Library_set_1timeout (JNIEnv * *env*, jclass, jint *hsecs*)

Definition at line 787 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::reset_timeout().

12.156.1.95 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_-1library_Parma_1Polyhedra_1Library_version (JNIEnv * *env*, jclass)

Definition at line 737 of file ppl_java_globals.cc.

12.156.1.96 JNIEXPORT jint JNICALL Java_parma_1polyhedra_1library_Parma_1Polyhedra_-1Library_version_1beta (JNIEnv *, jclass)

Definition at line 731 of file ppl_java_globals.cc.

12.156.1.97 JNIEXPORT jint JNICALL Java_parma_1polyhedra_1library_Parma_1Polyhedra_-1Library_version_1major (JNIEnv *, jclass)

Definition at line 713 of file ppl_java_globals.cc.

12.156.1.98 JNIEXPORT jint JNICALL Java_parma_1polyhedra_1library_Parma_1Polyhedra_-1Library_version_1minor (JNIEnv *, jclass)

Definition at line 719 of file ppl_java_globals.cc.

12.156.1.99 JNIEXPORT jint JNICALL Java_parma_1polyhedra_1library_-Parma_1Polyhedra_1Library_version_1revision (JNIEnv *, jclass)

Definition at line 725 of file ppl_java_globals.cc.

12.156.1.100 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_-Partial_1Function_build_1cpp_1object (JNIEnv * *env*, jobject *j_this_pfunc*)

Definition at line 2125 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::set_ptr().

12.156.1.101 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Partial_-1Function_finalize (JNIEnv * *env*, jobject *j_this*)

Definition at line 2195 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::get_ptr(), and Parma_Polyhedra_-Library::Interfaces::Java::is_java_marked().

12.156.1.102 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Partial_-1Function_free (JNIEnv * *env*, jobject *j_this*)

Definition at line 2183 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::get_ptr(), Parma_Polyhedra_-Library::Interfaces::Java::is_java_marked(), and Parma_Polyhedra_Library::Interfaces::Java::set_ptr().

12.156.1.103 JNIEXPORT jboolean JNICALL Java_parma_1polyhedra_1library_-Partial_1Function_has_1empty_1codomain (JNIEnv * *env*, jobject *j_this_pfunc*)

Definition at line 2135 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.104 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Partial_-1Function_insert (JNIEnv * *env*, jobject *j_this_pfunc*, jlong *i*, jlong *j*)

Definition at line 2172 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.105 JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_-Partial_1Function_maps (JNIEnv * *env*, jobject *j_this_pfunc*, jlong *j_i*)

Definition at line 2159 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.106 JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_-Partial_1Function_max_1in_1codomain (JNIEnv * *env*, jobject *j_this_pfunc*)

Definition at line 2147 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.107 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1_problem_-finalize (JNIEnv * *env*, jobject *j_this*)

Definition at line 1605 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::get_ptr(), and Parma_Polyhedra_-Library::Interfaces::Java::is_java_marked().

12.156.1.108 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_-1Decision_1Node_child_1node (JNIEnv * *env*, jobject *j_this*, jboolean *j_branch*)

Definition at line 2033 of file ppl_java_globals.cc.

References CATCH_ALL, CHECK_RESULT_ASSERT, CHECK_RESULT_RETURN, Parma_Polyhedra_Library::Interfaces::Java::get_ptr(), and Parma_Polyhedra_Library::Interfaces::Java::set_ptr().

12.156.1.109 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_1Status_initIDs (JNIEnv * *env*, jclass *j_mip_status_class*)

Definition at line 511 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PIP_Problem_Status_OPTIMIZED_PIP_PROBLEM_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PIP_Problem_Status_ordinal_ID, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PIP_Problem_Status_UNFEASIBLE_PIP_PROBLEM_ID.

12.156.1.110 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_add_1constraint (JNIEnv * *env*, jobject *j_this_pip_problem*, jobject *j_c*)

Definition at line 1723 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_constraint(), CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.111 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_add_1constraints (JNIEnv * *env*, jobject *j_this_pip_problem*, jobject *j_cs*)

Definition at line 1735 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_constraint_system(), CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.112 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_add_1space_1dimensions_1and_1embed (JNIEnv * *env*, jobject *j_this_pip_problem*, jlong *j_dim_vars*, jlong *j_dim_pars*)

Definition at line 1686 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.113 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_add_1to_1parameter_1space_1dimensions (JNIEnv * *env*, jobject *j_this_pip_problem*, jobject *j_vars*)

Definition at line 1699 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_variables_set(), CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.114 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_ascii_1dump (JNIEnv * *env*, jobject *j_this*)

Definition at line 1580 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.115 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_build_1cpp_1object__J (JNIEnv * *env*, jobject *j_this_pip_problem*, jlong *j_dim*)

Definition at line 1498 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::set_ptr().

12.156.1.116 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_build_1cpp_1object__JLparma_1polyhedra_1library_Constraint_1System_2Lparma_1polyhedra_1library_Variables_1Set_2 (JNIEnv * *env*, jobject *j_this_pip_problem*, jlong *j_dim*, jobject *j_cs*, jobject *j_vars*)

Definition at line 1509 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_constraint_system(), Parma_Polyhedra_Library::Interfaces::Java::build_cxx_variables_set(), CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::set_ptr().

12.156.1.117 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_build_1cpp_1object__Lparma_1polyhedra_1library_PIP_1Problem_2 (JNIEnv * *env*, jobject *j_this*, jobject *j_y*)

Definition at line 1524 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::get_ptr(), and Parma_Polyhedra_Library::Interfaces::Java::set_ptr().

12.156.1.118 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_constraint_1at_1index (JNIEnv * *env*, jobject *j_this_pip_problem*, jlong *j_index*)

Definition at line 1832 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_java_constraint(), CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.119 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_-1library_PIP_1Problem_constraints (JNIEnv * *env*, jobject *j_this_pip_problem*)

Definition at line 1846 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_java_constraint(), Parma_Polyhedra_-Library::Interfaces::Java::cached_classes, Parma_Polyhedra_Library::Interfaces::Java::cached_-FMIDs, CATCH_ALL, CHECK_EXCEPTION_RETURN, CHECK_RESULT_RETURN, Parma_-Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Constraint_System, Parma_Polyhedra_-Library::Interfaces::Java::Java_FMID_Cache::Constraint_System_add_ID, Parma_Polyhedra_-Library::Interfaces::Java::Java_FMID_Cache::Constraint_System_init_ID, and Parma_Polyhedra_-Library::Interfaces::Java::get_ptr().

12.156.1.120 JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_-PIP_1Problem_external_1memory_1in_1bytes (JNIEnv * *env*, jobject *j_this_pip_problem*)

Definition at line 1557 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.121 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_free (JNIEnv * *env*, jobject *j_this*)

Definition at line 1594 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::get_ptr(), Parma_Polyhedra_-Library::Interfaces::Java::is_java_marked(), and Parma_Polyhedra_Library::Interfaces::Java::set_ptr().

12.156.1.122 JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_PIP_-1Problem_get_1big_1parameter_1dimension (JNIEnv * *env*, jobject *j_this_pip_problem*)

Definition at line 1637 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.123 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_-get_1pip_1problem_1control_1parameter (JNIEnv * *env*, jobject *j_this_pip_problem*, jobject *j_cpn*)

Definition at line 1814 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_pip_problem_control_parameter_-name(), Parma_Polyhedra_Library::Interfaces::Java::build_java_pip_problem_control_parameter_value(), CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.124 JNIEXPORT jboolean JNICALL Java_parma_1polyhedra_-1library_PIP_1Problem_is_1satisfiable (JNIEnv * *env*, jobject *j_this_pip_problem*)

Definition at line 1747 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.125 JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_-PIP_1Problem_max_1space_1dimension (JNIEnv * *env*, jobject *j_this_pip_problem*)

Definition at line 1613 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.126 JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_-PIP_1Problem_number_1of_1constraints (JNIEnv * *env*, jobject *j_this_pip_problem*)

Definition at line 1711 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.127 JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_PIP_-1Problem_number_1of_1parameter_1space_1dimensions (JNIEnv * *env*, jobject *j_this_pip_problem*)

Definition at line 1674 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.128 JNIEXPORT jboolean JNICALL Java_parma_1polyhedra_1library_PIP_-1Problem_OK (JNIEnv * *env*, jobject *j_this_pip_problem*)

Definition at line 1533 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.129 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_-PIP_1Problem_optimizing_1solution (JNIEnv * *env*, jobject *j_this_pip_problem*)

Definition at line 1792 of file ppl_java_globals.cc.

References CATCH_ALL, CHECK_RESULT_ASSERT, CHECK_RESULT_RETURN, Parma_-Polyhedra_Library::Interfaces::Java::get_ptr(), and Parma_Polyhedra_Library::Interfaces::Java::set_ptr().

12.156.1.130 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_-PIP_1Problem_parameter_1space_1dimensions (JNIEnv * *env*, jobject *j_this_pip_problem*)

Definition at line 1649 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_java_variables_set(), CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.131 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_-set_1big_1parameter_1dimension (JNIEnv * *env*, jobject *j_this_pip_problem*, jlong *j_dim*)

Definition at line 1662 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.132 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_-set_1pip_1problem_1control_1parameter (JNIEnv * *env*, jobject *j_this_pip_problem*, jobject *j_cpv*)

Definition at line 1871 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_pip_problem_control_parameter_-value(), CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.133 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_-solution (JNIEnv * *env*, jobject *j_this_pip_problem*)

Definition at line 1770 of file ppl_java_globals.cc.

References CATCH_ALL, CHECK_RESULT_ASSERT, CHECK_RESULT_RETURN, Parma_-Polyhedra_Library::Interfaces::Java::get_ptr(), and Parma_Polyhedra_Library::Interfaces::Java::set_ptr().

12.156.1.134 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_-solve (JNIEnv * *env*, jobject *j_this_pip_problem*)

Definition at line 1758 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_java_pip_status(), CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.135 JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_-PIP_1Problem_space_1dimension (JNIEnv * *env*, jobject *j_this_pip_problem*)

Definition at line 1625 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.136 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_1library_PIP_1Problem_-toString (JNIEnv * *env*, jobject *j_this*)

Definition at line 1569 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.137 JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_-PIP_1Problem_total_1memory_1in_1bytes (JNIEnv * *env*, jobject *j_this_pip_problem*)

Definition at line 1545 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.138 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_-1Solution_1Node_parametric_1values (JNIEnv * *env*, jobject *j_this*, jobject *j_var*)

Definition at line 2058 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_cxx_variable(), Parma_Polyhedra_Library::Interfaces::Java::build_linear_expression(), and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.139 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Tree_1Node_artificials (JNIEnv * *env*, jobject *j_this_pip_node*)

Definition at line 1995 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Artificial_Parameter_Sequence, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Artificial_Parameter_Sequence_add_ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Artificial_Parameter_Sequence_init_ID, Parma_Polyhedra_Library::Interfaces::Java::build_java_artificial_parameter(), Parma_Polyhedra_Library::Interfaces::Java::cached_classes, Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CATCH_ALL, CHECK_EXCEPTION_RETURN, CHECK_RESULT_RETURN, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.140 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Tree_1Node_as_1decision (JNIEnv * *env*, jobject *j_this*)

Definition at line 1958 of file ppl_java_globals.cc.

References CATCH_ALL, CHECK_RESULT_ASSERT, CHECK_RESULT_RETURN, Parma_Polyhedra_Library::Interfaces::Java::get_ptr(), and Parma_Polyhedra_Library::Interfaces::Java::set_ptr().

12.156.1.141 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Tree_1Node_as_1solution (JNIEnv * *env*, jobject *j_this*)

Definition at line 1932 of file ppl_java_globals.cc.

References CATCH_ALL, CHECK_RESULT_ASSERT, CHECK_RESULT_RETURN, Parma_Polyhedra_Library::Interfaces::Java::get_ptr(), and Parma_Polyhedra_Library::Interfaces::Java::set_ptr().

12.156.1.142 JNIEXPORT jobject JNICALL Java_parma_1polyhedra_1library_PIP_1Tree_1Node_constraints (JNIEnv * *env*, jobject *j_this_pip_node*)

Definition at line 1915 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::build_java_constraint_system(), Parma_Polyhedra_Library::Interfaces::Java::cached_classes, Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CATCH_ALL, CHECK_RESULT_RETURN, Parma_Polyhedra_Library::Interfaces::Java::Java_Class_Cache::Constraint_System, Parma_Polyhedra_

Library::Interfaces::Java::Java_FMID_Cache::Constraint_System_init_ID, and Parma_Polyhedra_-Library::Interfaces::Java::get_ptr().

12.156.1.143 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Tree_-1Node_finalize (JNIEnv * *env*, jobject *j_this*)

Definition at line 1907 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::get_ptr(), and Parma_Polyhedra_-Library::Interfaces::Java::is_java_marked().

12.156.1.144 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PIP_1Tree_-1Node_free (JNIEnv * *env*, jobject *j_this*)

Definition at line 1896 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::get_ptr(), Parma_Polyhedra_-Library::Interfaces::Java::is_java_marked(), and Parma_Polyhedra_Library::Interfaces::Java::set_ptr().

12.156.1.145 JNIEXPORT jlong JNICALL Java_parma_1polyhedra_1library_-PIP_1Tree_1Node_number_1of_1artificials (JNIEnv * *env*, jobject *j_this*)

Definition at line 1984 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.146 JNIEXPORT jboolean JNICALL Java_parma_1polyhedra_1library_PIP_1Tree_-1Node_OK (JNIEnv * *env*, jobject *j_this_pip_tree*)

Definition at line 1884 of file ppl_java_globals.cc.

References CATCH_ALL, and Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.147 JNIEXPORT jstring JNICALL Java_parma_1polyhedra_-1library_PIP_1Tree_1Node_toString (JNIEnv * *env*, jobject *j_this*)

Definition at line 2022 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::get_ptr().

12.156.1.148 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Poly_1Con_-1Relation_initIDs (JNIEnv * *env*, jclass *j_poly_con_relation_class*)

Definition at line 559 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Poly_Con_Relation_init_ID.

12.156.1.149 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Poly_1Gen_-1Relation_initIDs (JNIEnv * *env*, jclass *j_poly_gen_relation_class*)

Definition at line 568 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Poly_Gen_Relation_init_ID.

12.156.1.150 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_PPL_1Object_-initIDs (JNIEnv * *env*, jclass *j_ppl_object_class*)

Definition at line 577 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::PPL_Object_ptr_ID.

12.156.1.151 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Relation_-1Symbol_initIDs (JNIEnv * *env*, jclass *j_rel_sym_class*)

Definition at line 585 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Relation_Symbol_EQUAL_ID, Parma_-Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Relation_Symbol_GREATER_OR_EQUAL_-ID, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Relation_Symbol_GREATER_-THAN_ID, and Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Relation_Symbol_-ordinal_ID.

12.156.1.152 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Variable_initIDs (JNIEnv * *env*, jclass *j_variable_class*)

Definition at line 677 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Variable_init_ID, and Parma_-Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Variable_varid_ID.

12.156.1.153 JNIEXPORT void JNICALL Java_parma_1polyhedra_1library_Variables_1Set_-initIDs (JNIEnv * *env*, jclass *j_vset_class*)

Definition at line 688 of file ppl_java_globals.cc.

References Parma_Polyhedra_Library::Interfaces::Java::cached_FMIDs, CHECK_RESULT_ASSERT, Parma_Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Variables_Set_add_ID, Parma_-Polyhedra_Library::Interfaces::Java::Java_FMID_Cache::Variables_Set_init_ID, Parma_Polyhedra_-Library::Interfaces::Java::Java_FMID_Cache::Variables_Set_Iterator_has_next_ID, Parma_Polyhedra_-Library::Interfaces::Java::Java_FMID_Cache::Variables_Set_iterator_ID, and Parma_Polyhedra_-Library::Interfaces::Java::Java_FMID_Cache::Variables_Set_Iterator_next_ID.

12.157 PPL_Object.java File Reference

Classes

- class parma_polyhedra_library::PPL_Object

  Smart pointer to a PPL, C++ object.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.158 Rational_Box.java File Reference

Classes

- class parma_polyhedra_library::Rational_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Rational_Box.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.159 Relation_Symbol.java File Reference

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

Enumerations

- enum parma_polyhedra_library::Relation_Symbol {

  parma_polyhedra_library::LESS_THAN, parma_polyhedra_library::LESS_OR_EQUAL, parma_polyhedra_library::EQUAL, parma_polyhedra_library::GREATER_OR_EQUAL,

  parma_polyhedra_library::GREATER_THAN }

  Relation symbols.

12.160 Termination.java File Reference

Classes

- class parma_polyhedra_library::Termination

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.161 Timeout_Exception.java File Reference

Classes

- class parma_polyhedra_library::Timeout_Exception

  Exceptions caused by timeout expiring.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.162 Uint16_Box.java File Reference

Classes

- class parma_polyhedra_library::Uint16_Box

  Java class interfacing C++ Parma_Polyhedra_Library::Uint16_Box.

Namespaces

- namespace parma_polyhedra_library

  The PPL Java interface package.

12.163 Uint32_Box.java File Reference

Classes

- class parma_polyhedra_library::Uint32_Box
  Java class interfacing C++ Parma_Polyhedra_Library::Uint32_Box.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.164 Uint64_Box.java File Reference

Classes

- class parma_polyhedra_library::Uint64_Box
  Java class interfacing C++ Parma_Polyhedra_Library::Uint64_Box.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.165 Uint8_Box.java File Reference

Classes

- class parma_polyhedra_library::Uint8_Box
  Java class interfacing C++ Parma_Polyhedra_Library::Uint8_Box.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.166 Variable.java File Reference

Classes

- class parma_polyhedra_library::Variable
  A dimension of the vector space.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.167 Variables_Set.java File Reference

Classes

- class parma_polyhedra_library::Variables_Set
  A java.util.TreeSet of variables' indexes.

Namespaces

- namespace parma_polyhedra_library
  The PPL Java interface package.

12.168 Z_Box.java File Reference

Classes

- class parma_polyhedra_library::Z_Box
  Java class interfacing C++ Parma_Polyhedra_Library::Z_Box.

Namespaces

- namespace parma_polyhedra_library
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