

jCubeR Java reader library

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Chapter 1

CUBE 4.0 Java reader library

1.1 Copyright

1.2 General description

CUBE Reader for Java provides same model as CUBE C++ library and same API.
Please look in User guide

Chapter 2

Namespace Index

2.1 Namespace List

Here is a list of all documented namespaces with brief descriptions:

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Chapter 4

Class Index

4.1 Class List

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

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Chapter 5

Namespace Documentation

5.1 org::xeustechnologies::jtar Namespace Reference

Classes

- class [Octal](#)
- class [TarConstants](#)
- class [TarEntry](#)
- class [TarHeader](#)
- class [TarInputStream](#)
- class [TarOutputStream](#)
- class [TarUtils](#)

5.1.1 Detailed Description

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5.2 scalasca::cubex::cube Namespace Reference

Classes

- class [Cartesian](#)

- class [Cnode](#)
- class [Cube](#)
- class [ExclusiveMetric](#)
- class [Ident](#)
- class [InclusiveMetric](#)
- class [Location](#)
- class [LocationGroup](#)
- class [Machine](#)
- class [Metric](#)
- class [NamedVertex](#)
- class [Node](#)
- class [Process](#)
- class [Region](#)
- class [SystemTreeNode](#)
- class [Thread](#)
- class [Vertex](#)

Enumerations

- enum **CubeCalculationFlavour** { UNKNOWN, EXCLUSIVE, INCLUSIVE }
- enum **LocationGroupType** { UNKNOWN, PROCESS, METRICS }
- enum **LocationType** { UNKNOWN, CPU_THREAD, GPU, METRIC }
- enum **MetricType** { UNKNOWN = (-1) { public String toString() { return "UNKNOWN"; } }, EXCLUSIVE = (0) { public String toString() { return "EXCLUSIVE"; } }, INCLUSIVE = (1) { public String toString() { return "INCLUSIVE"; } } }

5.2.1 Detailed Description

[Cube](#) model.

5.3 scalasca::cubex::cube::datalayout::data::value Namespace Reference

Classes

- class [CubeComplex](#)
- class [CubeDouble](#)
- class [CubeHistogram](#)
- class [CubeInt16](#)
- class [CubeInt32](#)
- class [CubeInt64](#)
- class [CubeInt8](#)
- class [CubeMaxDouble](#)
- class [CubeMinDouble](#)

- class [CubeTauAtomicMetric](#)
- class [CubeUint16](#)
- class [CubeUint32](#)
- class [CubeUint64](#)
- class [CubeUint8](#)
- class [Value](#)

Enumerations

- enum **ValueType** {
UNKNOWN = (-1) { public String toString() { return "UNKNOWN"; }; public boolean isMultiValued() { return false; }; public boolean isParametrized() { return false; }; }, **UINT8** = (0) { public String toString() { return "UINT8"; }; public boolean isMultiValued() { return false; }; public boolean isParametrized() { return false; }; }, **INT8** = (1) { public String toString() { return "INT8"; }; public boolean isMultiValued() { return false; }; public boolean isParametrized() { return false; }; }, **UINT16** = (2) { public String toString() { return "UINT16"; }; public boolean isMultiValued() { return false; }; public boolean isParametrized() { return false; }; },
INT16 = (3) { public String toString() { return "INT16"; }; public boolean isMultiValued() { return false; }; public boolean isParametrized() { return false; }; }, **UINT32** = (4) { public String toString() { return "UINT32"; }; public boolean isMultiValued() { return false; }; public boolean isParametrized() { return false; }; }, **INT32** = (5) { public String toString() { return "INT32"; }; public boolean isMultiValued() { return false; }; public boolean isParametrized() { return false; }; }, **UINT64** = (6) { public String toString() { return "UINT64"; }; public boolean isMultiValued() { return false; }; public boolean isParametrized() { return false; }; },
INT64 = (7) { public String toString() { return "INT64"; }; public boolean isMultiValued() { return false; }; public boolean isParametrized() { return false; }; }, **DOUBLE** = (8) { public String toString() { return "DOUBLE"; }; public boolean isMultiValued() { return false; }; public boolean isParametrized() { return false; }; }, **MIN-DOUBLE** = (9) { public String toString() { return "MINDOUBLE"; }; public boolean isMultiValued() { return false; }; public boolean isParametrized() { return false; }; }, **MAXDOUBLE** = (10) { public String toString() { return "MAXDOUBLE"; }; public boolean isMultiValued() { return false; }; public boolean isParametrized() { return false; }; },
TAU_ATOMIC_METRIC = (11) { public String toString() { return "TAU_ATOMIC"; }; public boolean isMultiValued() { return true; }; public boolean isParametrized() { return false; }; }, **COMPLEX** = (12) { public String toString() { return "COMPLEX"; }; public boolean isMultiValued() { return true; }; public boolean isParametrized() { return false; }; }, **HISTOGRAM** = (13) { public String toString() { return "HISTOGRAM"; }; public boolean isMultiValued() { return true; }; public boolean isParametrized() { return true; }; } }

5.3.1 Detailed Description

Implements a list of supported data types.

5.4 scalasca::cubex::cubexlayout Namespace Reference

Classes

- class [Cube3GZIPLayout](#)
- class [CubeLayout](#)
- class [CubeTarLayout](#)

5.4.1 Detailed Description

Collection of classes, which describes layout of cube report and delivers a raw data for parsing.

5.5 scalasca::cubex::tarviewer Namespace Reference

Classes

- class [BTarEntry](#)
- class [BTarInputStream](#)

5.5.1 Detailed Description

this code is a facade to jtar library - Xeus Technologies <http://code.google.com/p/jtar/>

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<http://www.apache.org/licenses/LICENSE-2.0>

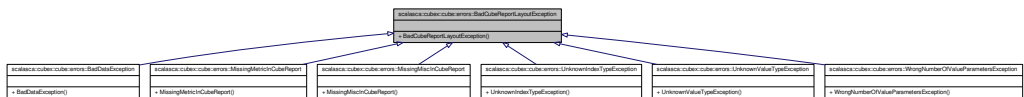
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Chapter 6

Class Documentation

6.1 scalasca::cubex::cube::errors::BadCubeReportLayoutException Class Reference

Inheritance diagram for scalasca::cubex::cube::errors::BadCubeReportLayoutException:



Public Member Functions

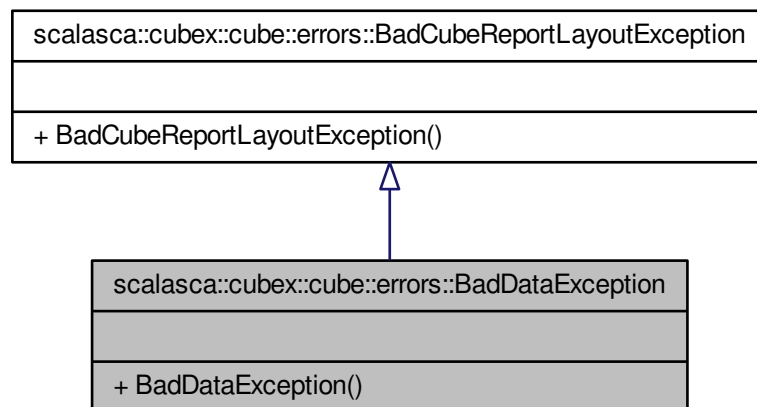
- **BadCubeReportLayoutException** (String message)

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

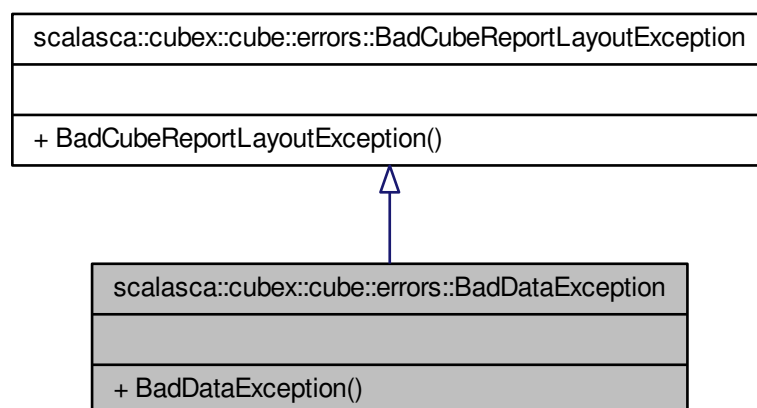
- `src/jcuber/src/cube/errors/BadCubeReportLayoutException.java`

6.2 scalasca::cubex::cube::errors::BadDataException Class Reference

Inheritance diagram for scalasca::cubex::cube::errors::BadDataException:



Collaboration diagram for scalasca::cubex::cube::errors::BadDataException:



Public Member Functions

- **BadDataException** (String message)

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

- src/jcuber/src/cube/errors/BadDataException.java

6.3 scalasca::cubex::cube::errors::BadSyntaxException Class Reference

Public Member Functions

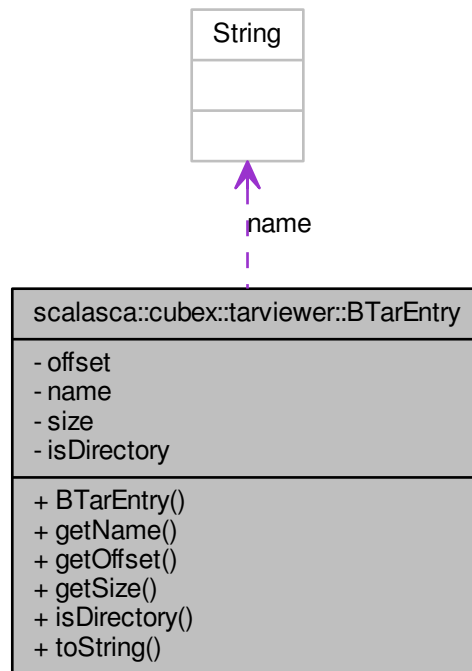
- **BadSyntaxException** (String message)

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

- src/jcuber/src/cube/errors/BadSyntaxException.java

6.4 scalasca::cubex::tarviewer::BTarEntry Class Reference

Collaboration diagram for scalasca::cubex::tarviewer::BTarEntry:



Public Member Functions

- **BTarEntry** (String name, long size, long offset, boolean isDirectory)
- String [getName](#) ()
- long [getOffset](#) ()
- long [getSize](#) ()
- boolean [isDirectory](#) ()
- String [toString](#) ()

6.4.1 Detailed Description

Provides a short description of files in the tar file : size, offset and a name. Used by Cube to get a direct access to the tar content.

6.4.2 Member Function Documentation

6.4.2.1 String scalasca::cubex::tarviewer::BTarEntry::getName () [inline]

Returns the name of the file

Returns

string representing the name of the file/folder

6.4.2.2 long scalasca::cubex::tarviewer::BTarEntry::getOffset () [inline]

Returns the offset of the file inside the TAR archive

Returns

Offset of the file inside the TAR archive easured in bytes

6.4.2.3 long scalasca::cubex::tarviewer::BTarEntry::getSize () [inline]

Returns the size of the file inside the TAR archive

Returns

Size of the file measured in bytes

6.4.2.4 boolean scalasca::cubex::tarviewer::BTarEntry::isDirectory () [inline]

Returns true if directory is returned, false otherwise

6.4.2.5 String scalasca::cubex::tarviewer::BTarEntry::toString () [inline]

Returns a colon-separated list [name:offset(bytes):size(bytes)] string that represents the object

Returns

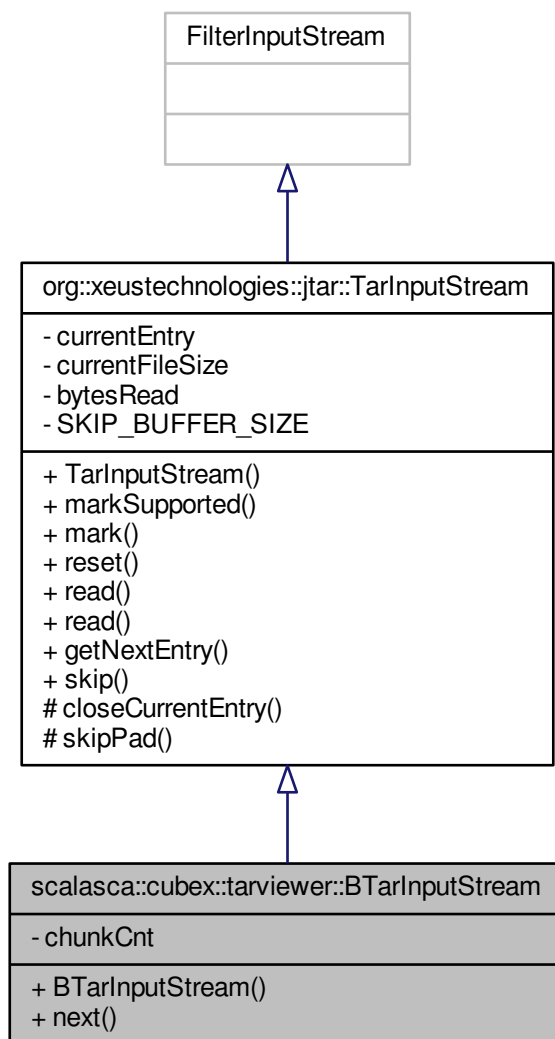
string representing the object

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

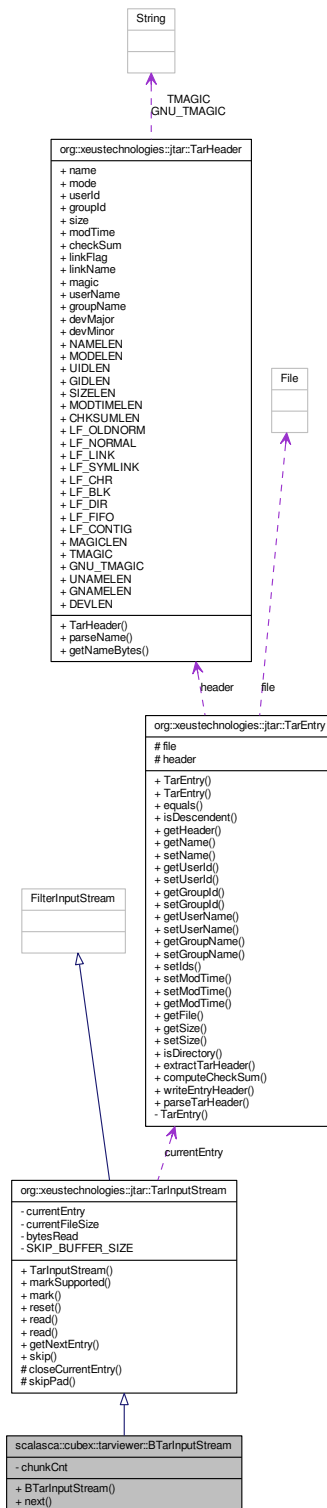
- src/jcuber/src/tarviewer/BTarEntry.java

6.5 scalasca::cubex::tarviewer::BTarInputStream Class Reference

Inheritance diagram for scalasca::cubex::tarviewer::BTarInputStream:



Collaboration diagram for scalasca::cubex::tarviewer::BTarInputStream:



Public Member Functions

- **BTarInputStream** (InputStream in)
- [BTarEntry next](#) () throws IOException

6.5.1 Detailed Description

Provides for TarInputStream a list of files in the tar file with size, offset and a name. Used by Cube to get a direct access to the tar content.

6.5.2 Member Function Documentation

6.5.2.1 **BTarEntry** `scalasca::cubex::tarviewer::BTarInputStream::next ()` throws IOException [inline]

Gets the next entry inside the TAR archive

Returns

[BTarEntry](#) object representing the next entry inside the TAR archive, NULL otherwise

Exceptions

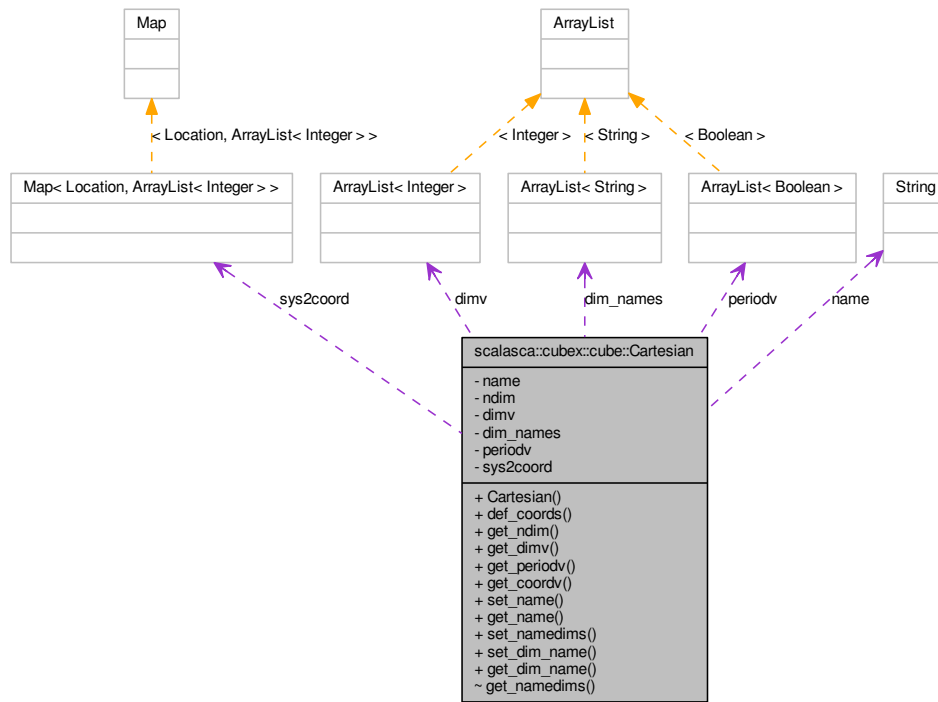
<i>IOException</i>

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

- `src/jcuber/src/tarviewer/BTarInputStream.java`

6.6 scalasca::cubex::cube::Cartesian Class Reference

Collaboration diagram for scalasca::cubex::cube::Cartesian:



Public Member Functions

- **Cartesian** (int _ndim, ArrayList< Integer > _dimv, ArrayList< Boolean > _periodv)
- void **def_coords** (Location _loc, ArrayList< Integer > _coords)
- int **get_ndim** ()
- ArrayList< Integer > **get_dimv** ()
- ArrayList< Boolean > **get_periodv** ()
- ArrayList< Integer > **get_coordv** (Location _thread)
- void **set_name** (String _name)
- String **get_name** ()
- boolean **set_namedims** (ArrayList< String > names)
- boolean **set_dim_name** (int dim, String name)
- String **get_dim_name** (int dim)

Package Functions

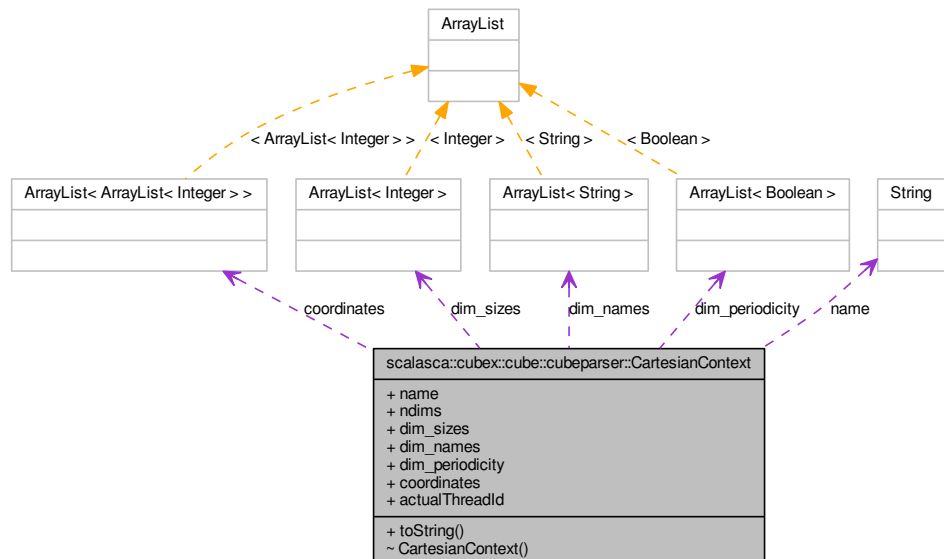
- `ArrayList< String > get_namedims ()`

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

- `src/jcuber/src/cube/Cartesian.java`

6.7 scalasca::cubex::cube::cubeparser::CartesianContext Class Reference

Collaboration diagram for `scalasca::cubex::cube::cubeparser::CartesianContext`:



Public Member Functions

- `String toString ()`

Public Attributes

- `String name = new String("")`
- `int ndims = -1`
- `ArrayList< Integer > dim_sizes = new ArrayList<Integer>()`

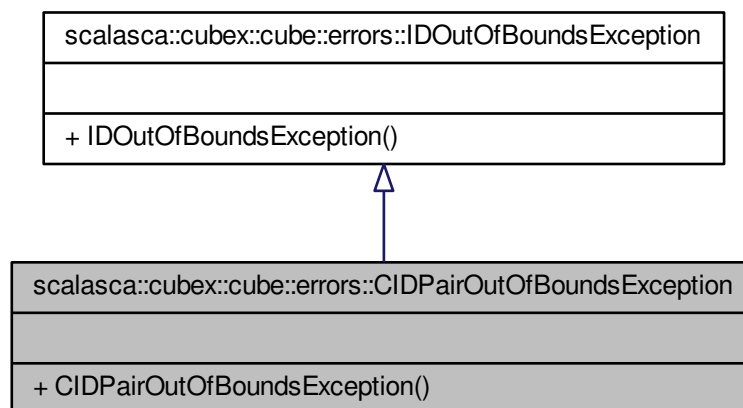
- ArrayList< String > **dim_names** = new ArrayList<String>()
- ArrayList< Boolean > **dim_periodicity** = new ArrayList<Boolean>()
- ArrayList< ArrayList< Integer > > **coordinates** = new ArrayList< ArrayList<Integer>>()
- int **actualThreadId** = -1

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

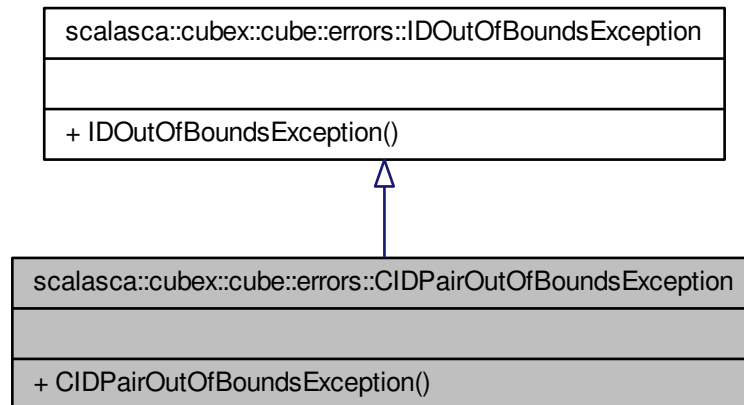
- src/jcuber/src/cube/cubeparser/CartesianContext.java

6.8 scalasca::cubex::cube::errors::CIDPairOutOfBoundsException Class Reference

Inheritance diagram for scalasca::cubex::cube::errors::CIDPairOutOfBoundsException:



Collaboration diagram for scalasca::cubex::cube::errors::CIDPairOutOfBoundsException:



Public Member Functions

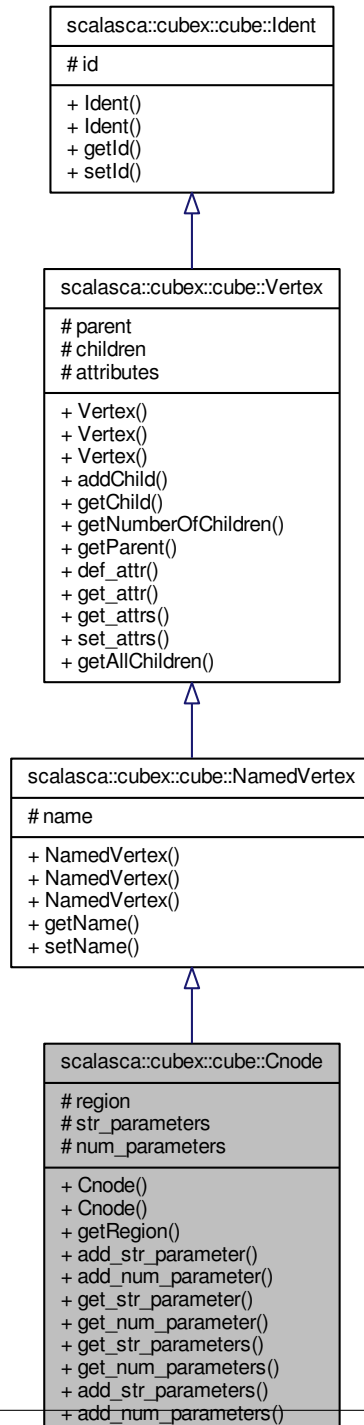
- **CIDPairOutOfBoundsException** (int cid, int ncid)

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

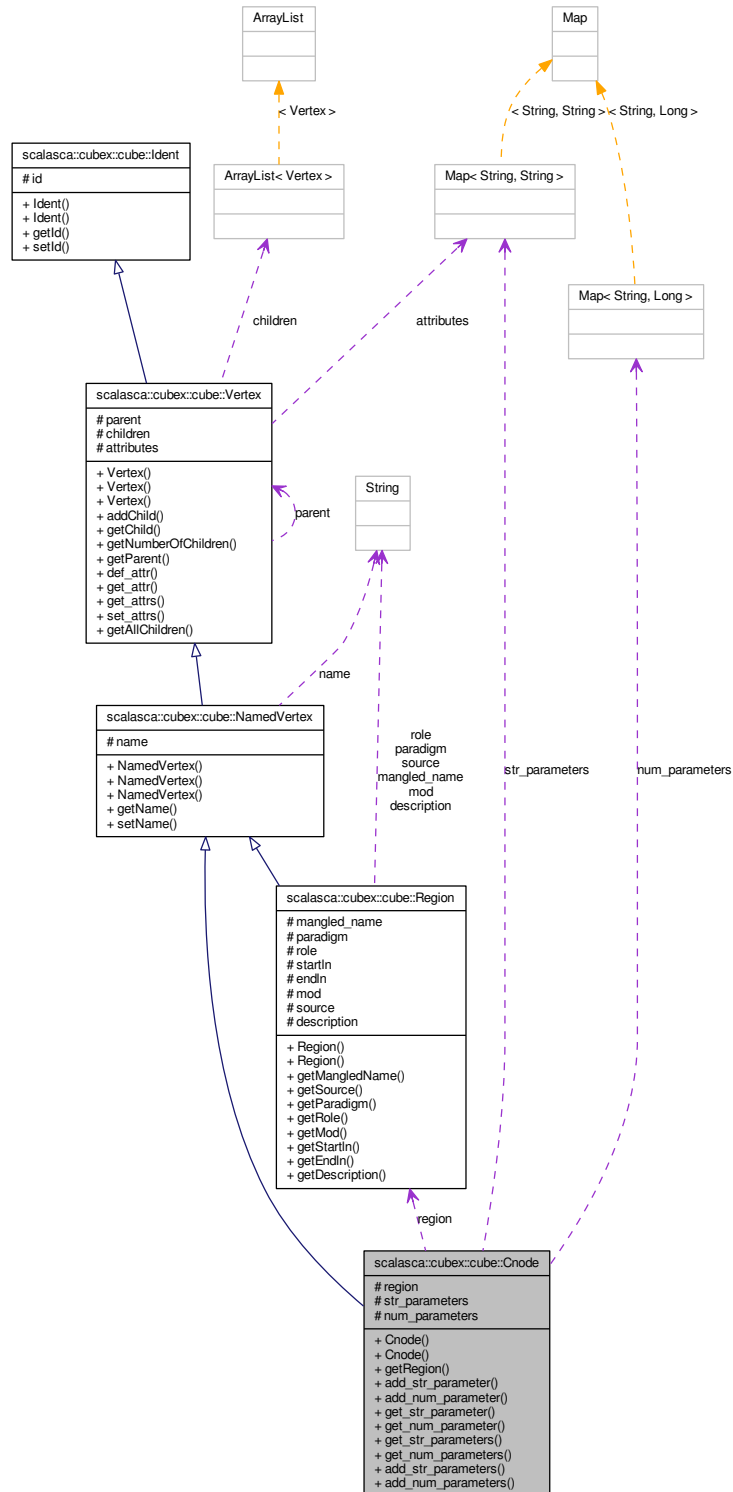
- `src/jcuber/src/cube/errors/CIDPairOutOfBoundsException.java`

6.9 scalasca::cubex::cube::Cnode Class Reference

Inheritance diagram for scalasca::cubex::cube::Cnode:



Collaboration diagram for `scalasca::cubex::cube::Cnode`:



Public Member Functions

- **Cnode** (int _id, [Region](#) _region, [Cnode](#) _parent)
- [Region](#) **getRegion** ()
- void **add_str_parameter** (String key, String value)
- void **add_num_parameter** (String key, long value)
- String **get_str_parameter** (String key)
- long **get_num_parameter** (String key)
- Map< String, String > **get_str_parameters** ()
- Map< String, Long > **get_num_parameters** ()
- void **add_str_parameters** (Map< String, String > _map)
- void **add_num_parameters** (Map< String, Long > _map)

Protected Attributes

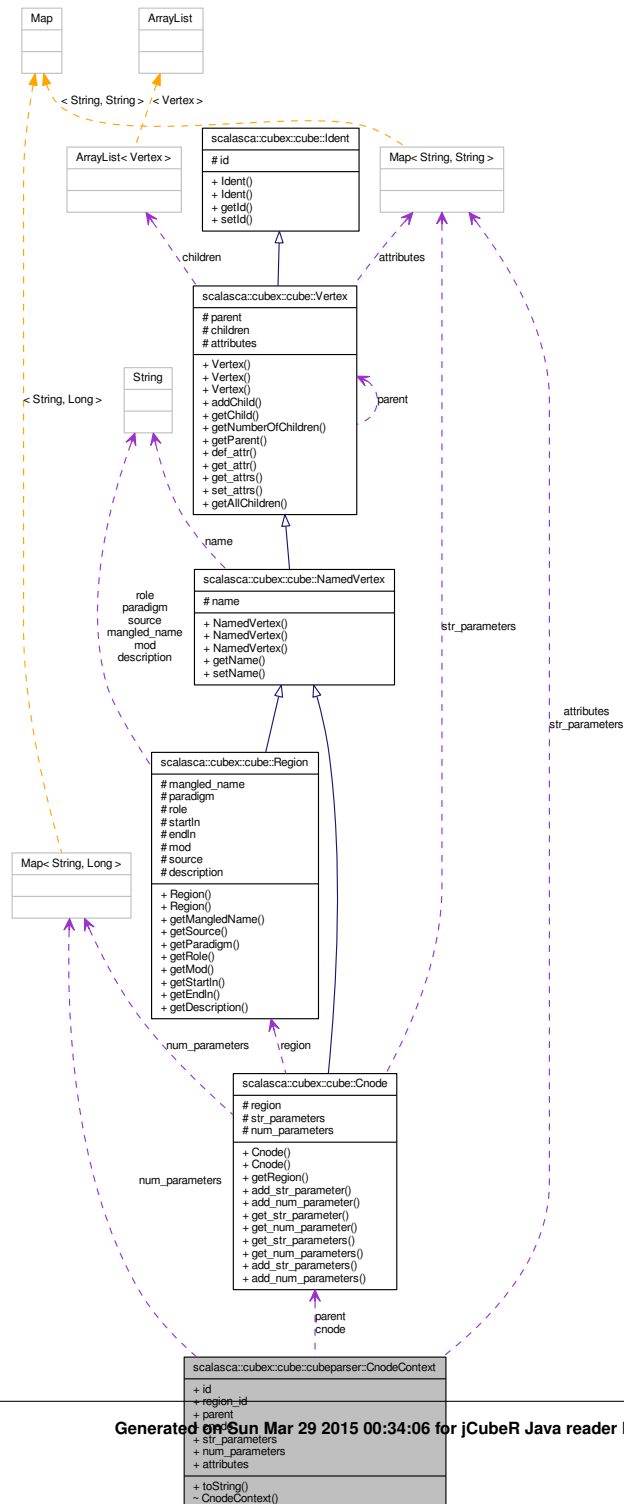
- [Region](#) **region**
- Map< String, String > **str_parameters** = new HashMap<String, String>()
- Map< String, Long > **num_parameters** = new HashMap<String, Long>()

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

- src/jcuber/src/cube/Cnode.java

6.10 scalasca::cubex::cube::cubeparser::CnodeContext Class Reference

Collaboration diagram for scalasca::cubex::cube::cubeparser::CnodeContext:



Public Member Functions

- String **toString** ()

Public Attributes

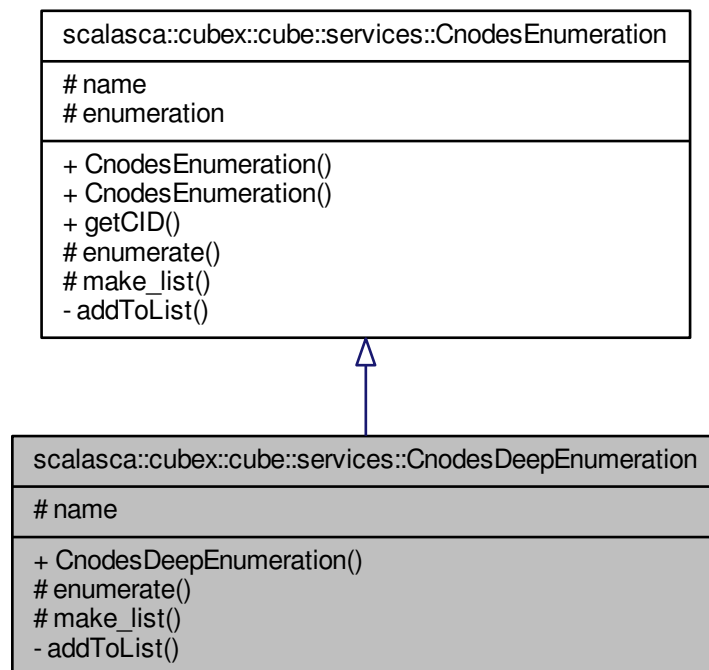
- int **id** = -1
- int **region_id** = -1
- Cnode **parent** = null
- Cnode **cnode** = null
- Map< String, String > **str_parameters** = new HashMap<String, String> ()
- Map< String, Long > **num_parameters** = new HashMap<String, Long> ()
- Map< String, String > **attributes** = new HashMap<String, String> ()

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

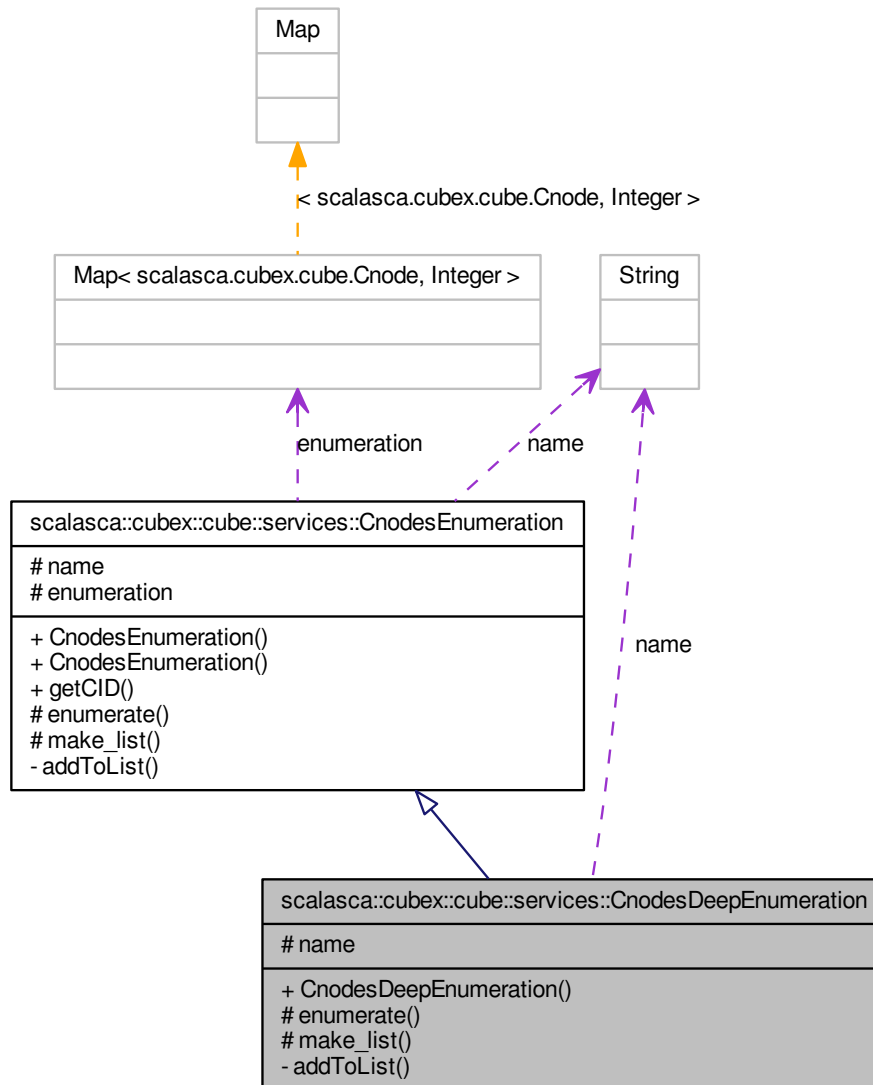
- src/jcuber/src/cube/cubeparser/CnodeContext.java

6.11 scalasca::cubex::cube::services::CnodesDeepEnumeration Class Reference

Inheritance diagram for scalasca::cubex::cube::services::CnodesDeepEnumeration:



Collaboration diagram for scalasca::cubex::cube::services::CnodesDeepEnumeration:



Public Member Functions

- **CnodesDeepEnumeration** (ArrayList< [scalasca.cubex.cube.Cnode](#) > root_cnodes)

Protected Member Functions

- void **enumerate** (ArrayList< [scalasca.cubex.cube.Cnode](#) > root_cnodes)
- ArrayList< [scalasca.cubex.cube.Cnode](#) > **make_list** (ArrayList< [scalasca.cubex.cube.Cnode](#) > root_cnodes)

Protected Attributes

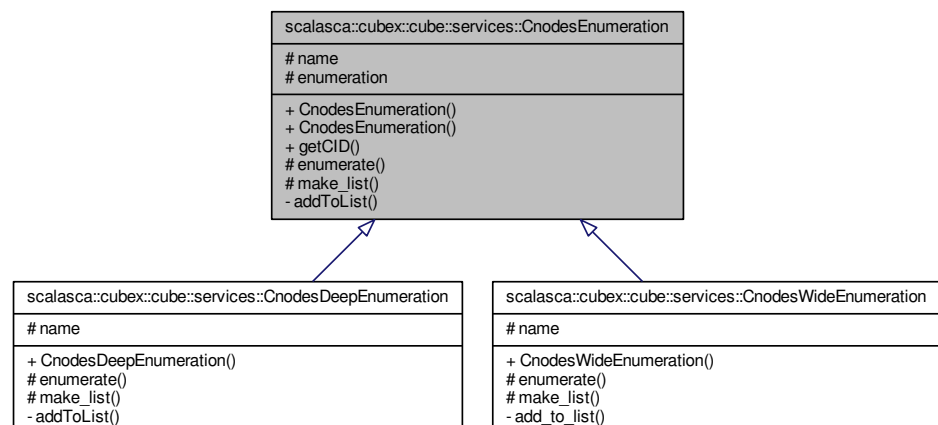
- String **name** = "Deep Enumeration (Deep First seatch)"

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

- src/jcuber/src/cube/services/CnodesDeepEnumeration.java

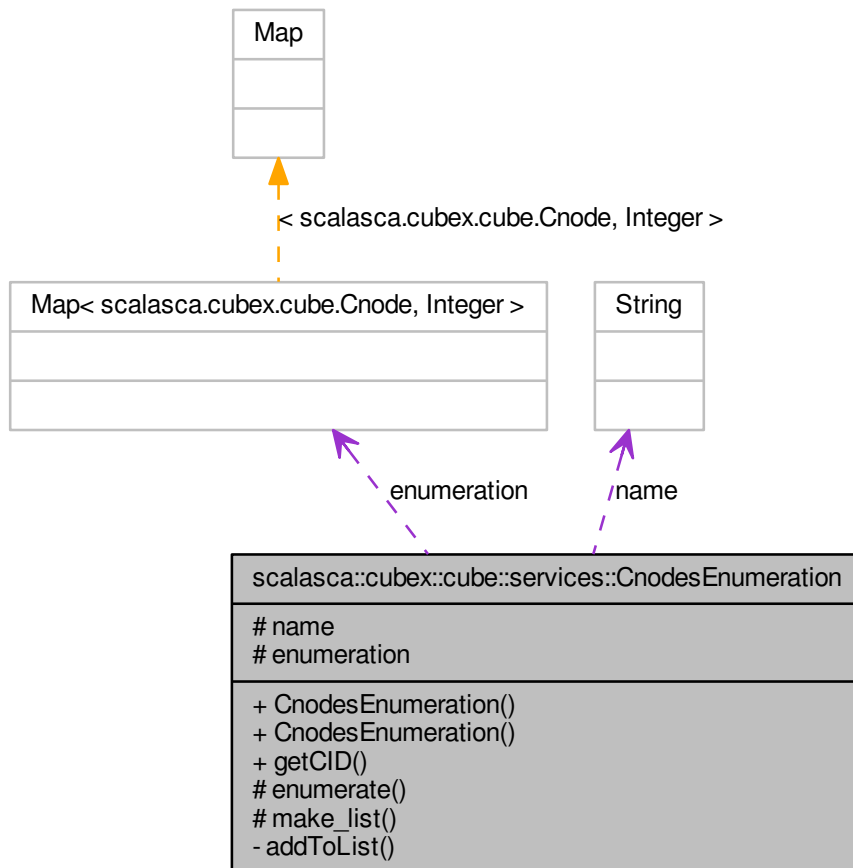
6.12 scalasca::cubex::cube::services::CnodesEnumeration Class Reference

Inheritance diagram for scalasca::cubex::cube::services::CnodesEnumeration:



6.12 `scalasca::cubex::cube::services::CnodesEnumeration` Class Reference 37

Collaboration diagram for `scalasca::cubex::cube::services::CnodesEnumeration`:



Public Member Functions

- **CnodesEnumeration** (`ArrayList< scalasca.cubex.cube.Cnode > root_cnodes`)
- **int getCID** (`scalasca.cubex.cube.Cnode cnode`) throws `NotEnumeratedCnode-Exception`

Protected Member Functions

- **void enumerate** (`ArrayList< scalasca.cubex.cube.Cnode > root_cnodes`)

- `ArrayList< scalasca.cubex.cube.Cnode > make_list` (`ArrayList< scalasca.cubex.cube.Cnode > root_cnodes`)

Protected Attributes

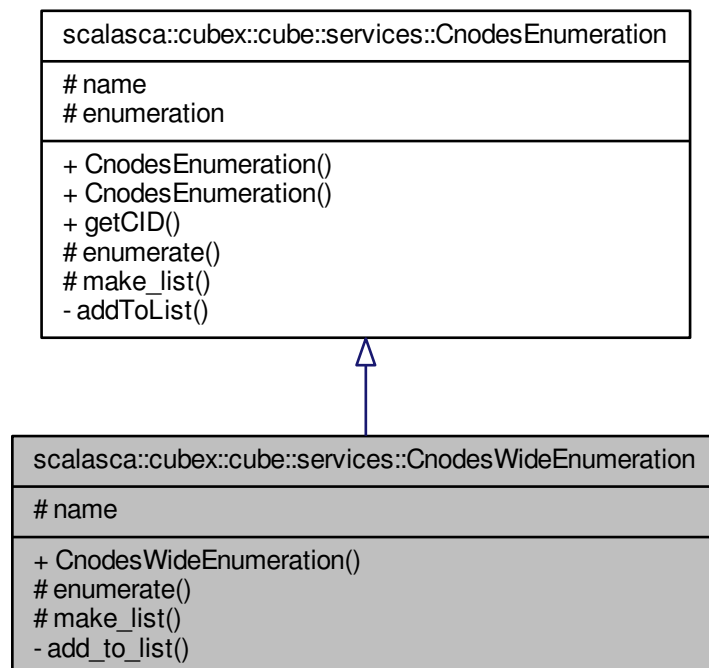
- String **name** = "Trivial Enumeration (1->1, 2->2, ...)"
- Map< [scalasca.cubex.cube.Cnode](#), Integer > **enumeration** = new HashMap<[scalasca.cubex.cube.Cnode](#), Integer>()

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

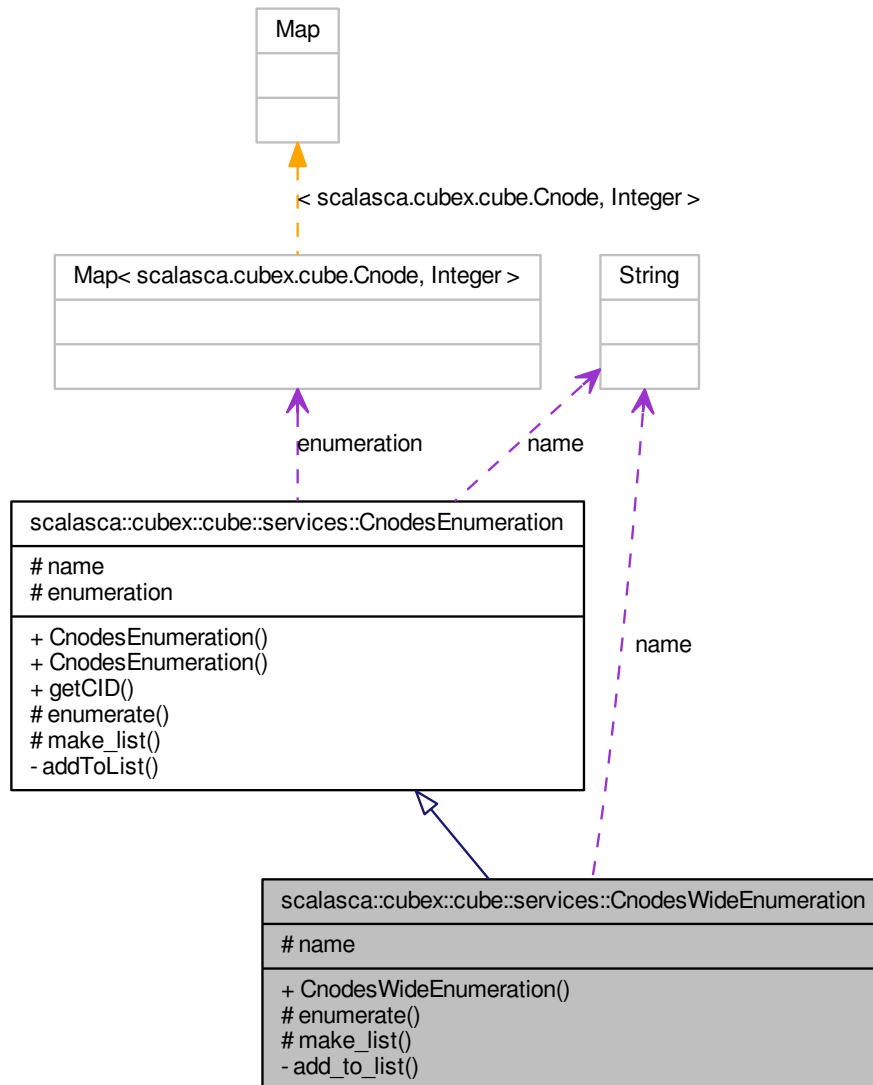
- `src/jcuber/src/cube/services/CnodesEnumeration.java`

6.13 `scalasca::cubex::cube::services::CnodesWideEnumeration` Class Reference

Inheritance diagram for `scalasca::cubex::cube::services::CnodesWideEnumeration`:



Collaboration diagram for scalasca::cubex::cube::services::CnodesWideEnumeration:



Public Member Functions

- **CnodesWideEnumeration** (ArrayList< [scalasca.cubex.cube.Cnode](#) > root_cnodes)

Protected Member Functions

- void **enumerate** (ArrayList< [scalasca.cubex.cube.Cnode](#) > root_cnodes)
- ArrayList< [scalasca.cubex.cube.Cnode](#) > **make_list** (ArrayList< [scalasca.cubex.cube.Cnode](#) > root_cnodes)

Protected Attributes

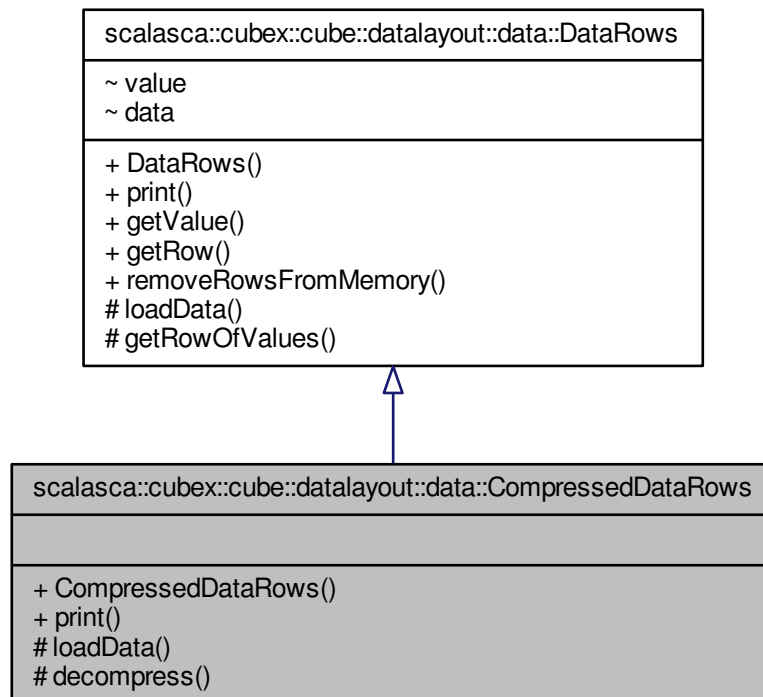
- String **name** = "Wide Enumeration (Bridth First seatch)"

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

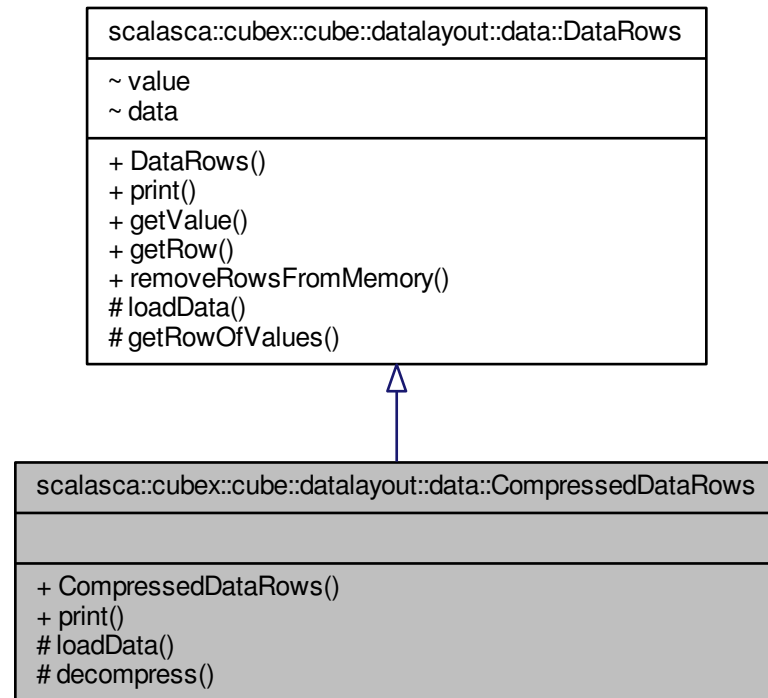
- [src/jcuber/src/cube/services/CnodesWideEnumeration.java](#)

6.14 scalasca::cubex::cube::datalayout::data::CompressedDataRows Class Reference

Inheritance diagram for scalasca::cubex::cube::datalayout::data::CompressedDataRows:



Collaboration diagram for scalasca::cubex::cube::datalayout::data::CompressedDataRows:



Public Member Functions

- **CompressedDataRows** (byte[] data, Value value, Endianess endianess) throws `BadDataException`
- void **print** ()

Protected Member Functions

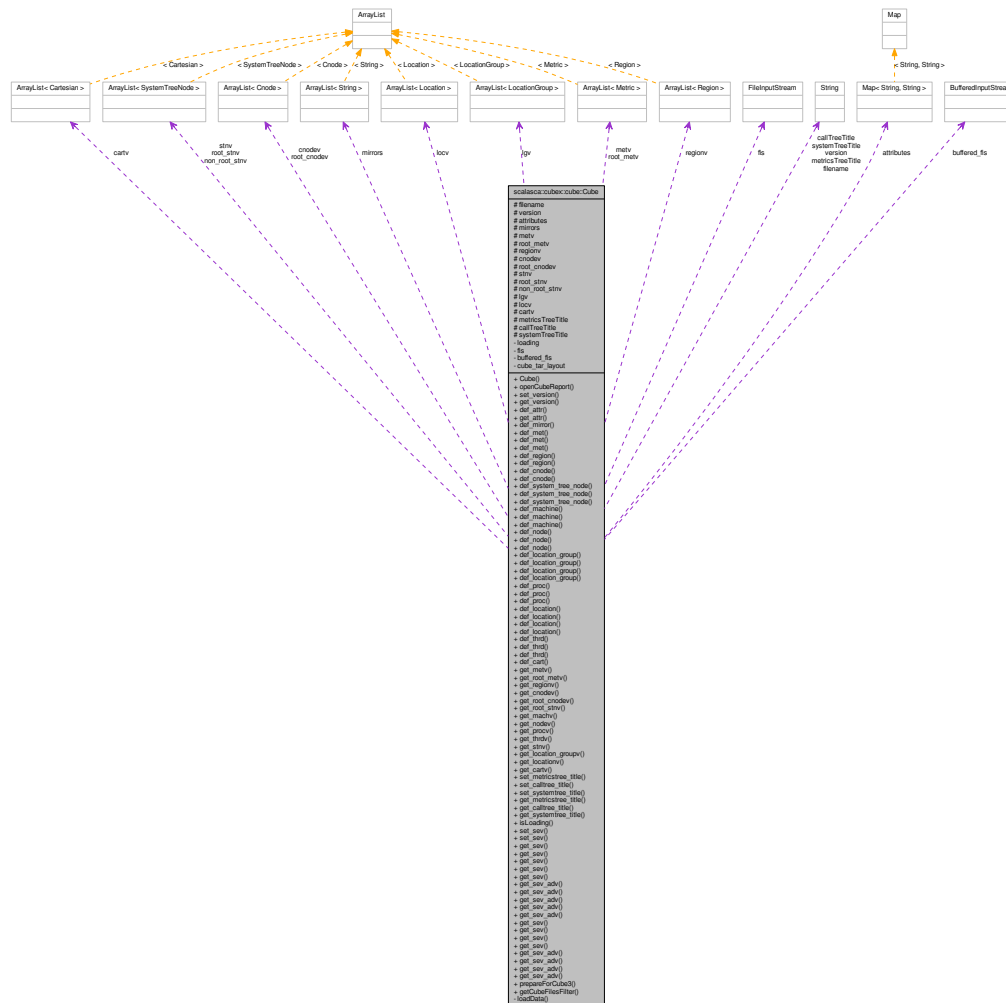
- void **loadData** (byte[] _data, Value _value, Endianess _endianess) throws `BadDataException`
- byte[] **decompress** (byte[] _compressed_data, Endianess _endianess) throws `BadDataException`

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

- `src/jcuber/src/cube/datalayout/data/CompressedDataRows.java`

6.15 scalasca::cubex::cube::Cube Class Reference

Collaboration diagram for scalasca::cubex::cube::Cube:



Public Member Functions

- void **openCubeReport** (String _filename) throws BadSyntaxException, BadCubeReportLayoutException, FileNotFoundException, IOException
- void **set_version** (String _version)
- String **get_version** ()
- void **def_attr** (String key, String value)
- String **get_attr** (String key)
- void **def_mirror** (String mirror)

- **Metric def_met** (String uniq_name, String disp_name, String dtype, String uom, String url, String descr, MetricType metricType, [Metric](#) parent) throws UnknownMetricTypeException, UnknownValueTypeException, WrongNumberOfValueParametersException
- **Metric def_met** (int id, String uniq_name, String disp_name, String dtype, String uom, String url, String descr, MetricType metricType, [Metric](#) parent) throws UnknownMetricTypeException, UnknownValueTypeException, WrongNumberOfValueParametersException
- **Metric def_met** (int id, MetricType metricType, [Metric](#) parent) throws UnknownMetricTypeException, WrongNumberOfValueParametersException
- **Region def_region** (String name, String mangled_name, String paradigm, String role, int beginln, int endl, String url, String descr, String mod)
- **Region def_region** (int id, String name, String mangled_name, String paradigm, String role, int beginln, int endl, String url, String descr, String mod)
- **Cnode def_cnode** (int region_id, [Cnode](#) parent)
- **Cnode def_cnode** (int id, int region_id, [Cnode](#) parent)
- **SystemTreeNode def_system_tree_node** (String name, String descr, String _class, [SystemTreeNode](#) parent)
- **SystemTreeNode def_system_tree_node** (int id, [SystemTreeNode](#) parent)
- **SystemTreeNode def_system_tree_node** (int id, String name, String descr, String _class, [SystemTreeNode](#) parent)
- **SystemTreeNode def_machine** (String name, String descr)
- **SystemTreeNode def_machine** (int id)
- **SystemTreeNode def_machine** (int id, String name, String descr)
- **SystemTreeNode def_node** (String name, String descr, [SystemTreeNode](#) parent)

- **SystemTreeNode def_node** (int id, [SystemTreeNode](#) parent)
- **SystemTreeNode def_node** (int id, String name, String descr, [SystemTreeNode](#) parent)
- **LocationGroup def_location_group** (long rank, String name, LocationGroupType type, [SystemTreeNode](#) parent)
- **LocationGroup def_location_group** (int id, [SystemTreeNode](#) parent)
- **LocationGroup def_location_group** ([SystemTreeNode](#) parent)
- **LocationGroup def_location_group** (int id, long rank, String name, LocationGroupType type, [SystemTreeNode](#) parent)
- **LocationGroup def_proc** (long rank, String name, [SystemTreeNode](#) parent)
- **LocationGroup def_proc** (int id, [SystemTreeNode](#) parent)
- **LocationGroup def_proc** (int id, long rank, String name, [SystemTreeNode](#) parent)

- **Location def_location** (long rank, String name, LocationType type, [LocationGroup](#) parent)
- **Location def_location** (int id, [LocationGroup](#) parent)
- **Location def_location** ([LocationGroup](#) parent)
- **Location def_location** (int id, long rank, String name, LocationType type, [LocationGroup](#) parent)
- **Location def_thrd** (long rank, String name, [LocationGroup](#) parent)
- **Location def_thrd** (int id, [LocationGroup](#) parent)

- [Location](#) **def_thrd** (int id, long rank, String name, [LocationGroup](#) parent)
- [Cartesian](#) **def_cart** (int ndim, ArrayList< Integer > dimv, ArrayList< Boolean > periodv)
- ArrayList< [Metric](#) > **get_metv** ()
- ArrayList< [Metric](#) > **get_root_metv** ()
- ArrayList< [Region](#) > **get_regionv** ()
- ArrayList< [Cnode](#) > **get_cnodev** ()
- ArrayList< [Cnode](#) > **get_root_cnodev** ()
- ArrayList< [SystemTreeNode](#) > **get_root_stnv** ()
- ArrayList< [Machine](#) > **get_machv** ()
- ArrayList< [Node](#) > **get_nodev** ()
- ArrayList< [Process](#) > **get_procv** ()
- ArrayList< [scalasca.cubex.cube.Thread](#) > **get_thrdv** ()
- ArrayList< [SystemTreeNode](#) > **get_stnv** ()
- ArrayList< [LocationGroup](#) > **get_location_groupv** ()
- ArrayList< [Location](#) > **get_locationv** ()
- ArrayList< [Cartesian](#) > **get_cartv** ()
- void **set_metricstree_title** (String title)
- void **set_calltree_title** (String title)
- void **set_systemtree_title** (String title)
- String **get_metricstree_title** ()
- String **get_calltree_title** ()
- String **get_systemtree_title** ()
- boolean **isLoading** ()
- void **set_sev** ([Metric](#) met, [Cnode](#) cnode, [Location](#) loc, String value) throws NotEnumeratedCnodeException
- void **set_sev** ([Metric](#) met, [Cnode](#) cnode, [Thread](#) th, String value) throws NotEnumeratedCnodeException
- double **get_sev** ([Metric](#) met, CubeCalculationFlavour mcalc) throws NotEnumeratedCnodeException
- double **get_sev** ([Metric](#) met, CubeCalculationFlavour mcalc, [Cnode](#) cnode, CubeCalculationFlavour ccalc) throws NotEnumeratedCnodeException
- double **get_sev** ([Metric](#) met, CubeCalculationFlavour mcalc, [Cnode](#) cnode, CubeCalculationFlavour ccalc, [SystemTreeNode](#) stn, CubeCalculationFlavour stncalc) throws NotEnumeratedCnodeException
- double **get_sev** ([Metric](#) met, CubeCalculationFlavour mcalc, [Cnode](#) cnode, CubeCalculationFlavour ccalc, [LocationGroup](#) lg, CubeCalculationFlavour lgcalc) throws NotEnumeratedCnodeException
- double **get_sev** ([Metric](#) met, CubeCalculationFlavour mcalc, [Cnode](#) cnode, CubeCalculationFlavour ccalc, [Location](#) l, CubeCalculationFlavour lcalc) throws NotEnumeratedCnodeException
- Value **get_sev_adv** ([Metric](#) met, CubeCalculationFlavour mcalc) throws NotEnumeratedCnodeException
- Value **get_sev_adv** ([Metric](#) met, CubeCalculationFlavour mcalc, [Cnode](#) cnode, CubeCalculationFlavour ccalc) throws NotEnumeratedCnodeException
- Value **get_sev_adv** ([Metric](#) met, CubeCalculationFlavour mcalc, [Cnode](#) cnode, CubeCalculationFlavour ccalc, [SystemTreeNode](#) stn, CubeCalculationFlavour stncalc) throws NotEnumeratedCnodeException

- Value **get_sev_adv** ([Metric](#) met, [CubeCalculationFlavour](#) mcalc, [Cnode](#) cnode, [CubeCalculationFlavour](#) ccalc, [LocationGroup](#) lg, [CubeCalculationFlavour](#) lgcalc) throws [NotEnumeratedCnodeException](#)
- Value **get_sev_adv** ([Metric](#) met, [CubeCalculationFlavour](#) mcalc, [Cnode](#) cnode, [CubeCalculationFlavour](#) ccalc, [Location](#) l, [CubeCalculationFlavour](#) lcalc) throws [NotEnumeratedCnodeException](#)
- double **get_sev** ([Metric](#) met, [Cnode](#) cnode, [Location](#) loc) throws [NotEnumeratedCnodeException](#)
- double **get_sev** ([Metric](#) met, [Cnode](#) cnode, [scalasca.cubex.cube.Thread](#) thread) throws [NotEnumeratedCnodeException](#)
- double **get_sev** ([Metric](#) met, [Cnode](#) cnode, [CubeCalculationFlavour](#) cf, [Location](#) loc) throws [NotEnumeratedCnodeException](#)
- double **get_sev** ([Metric](#) met, [Cnode](#) cnode, [CubeCalculationFlavour](#) cf, [scalasca.cubex.cube.Thread](#) thread) throws [NotEnumeratedCnodeException](#)
- Value **get_sev_adv** ([Metric](#) met, [Cnode](#) cnode, [CubeCalculationFlavour](#) cf, [Location](#) loc) throws [NotEnumeratedCnodeException](#)
- Value **get_sev_adv** ([Metric](#) met, [Cnode](#) cnode, [CubeCalculationFlavour](#) cf, [scalasca.cubex.cube.Thread](#) thread) throws [NotEnumeratedCnodeException](#)
- Value **get_sev_adv** ([Metric](#) met, [Cnode](#) cnode, [Location](#) loc) throws [NotEnumeratedCnodeException](#)
- Value **get_sev_adv** ([Metric](#) met, [Cnode](#) cnode, [scalasca.cubex.cube.Thread](#) thread) throws [NotEnumeratedCnodeException](#)
- void **prepareForCube3** ()

Static Public Member Functions

- static [javax.swing.filechooser.FileFilter](#) **getCubeFilesFilter** ()

Protected Attributes

- String **filename**
- String **version**
- Map< String, String > **attributes** = new HashMap< String, String > ()
- ArrayList< String > **mirrors** = new ArrayList< String> ()
- ArrayList< [Metric](#) > **metv** = new ArrayList<[Metric](#)>()
- ArrayList< [Metric](#) > **root_metv** = new ArrayList<[Metric](#)>()
- ArrayList< [Region](#) > **regionv** = new ArrayList<[Region](#)>()
- ArrayList< [Cnode](#) > **cnodev** = new ArrayList<[Cnode](#)>()
- ArrayList< [Cnode](#) > **root_cnodev** = new ArrayList<[Cnode](#)>()
- ArrayList< [SystemTreeNode](#) > **stnv** = new ArrayList<[SystemTreeNode](#)>()
- ArrayList< [SystemTreeNode](#) > **root_stnv** = new ArrayList<[SystemTreeNode](#)>()
- ArrayList< [SystemTreeNode](#) > **non_root_stnv** = new ArrayList<[SystemTreeNode](#)>()
- ArrayList< [LocationGroup](#) > **lgv** = new ArrayList<[LocationGroup](#)>()
- ArrayList< [Location](#) > **locv** = new ArrayList<[Location](#)>()

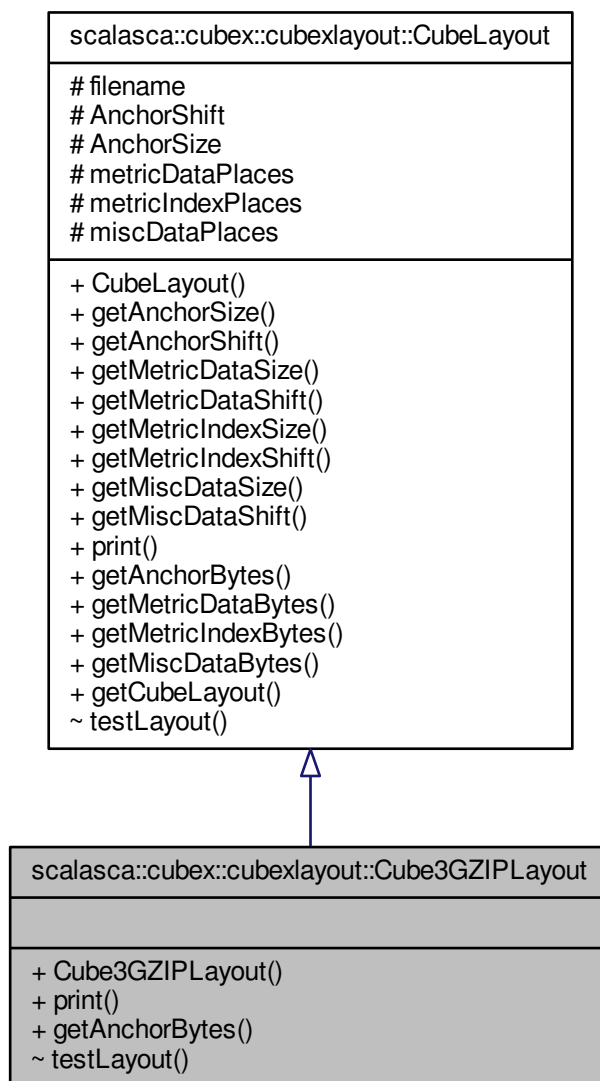
- `ArrayList< Cartesian > cartv = new ArrayList<Cartesian>()`
- `String metricsTreeTitle = ""`
- `String callTreeTitle = ""`
- `String systemTreeTitle = ""`

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

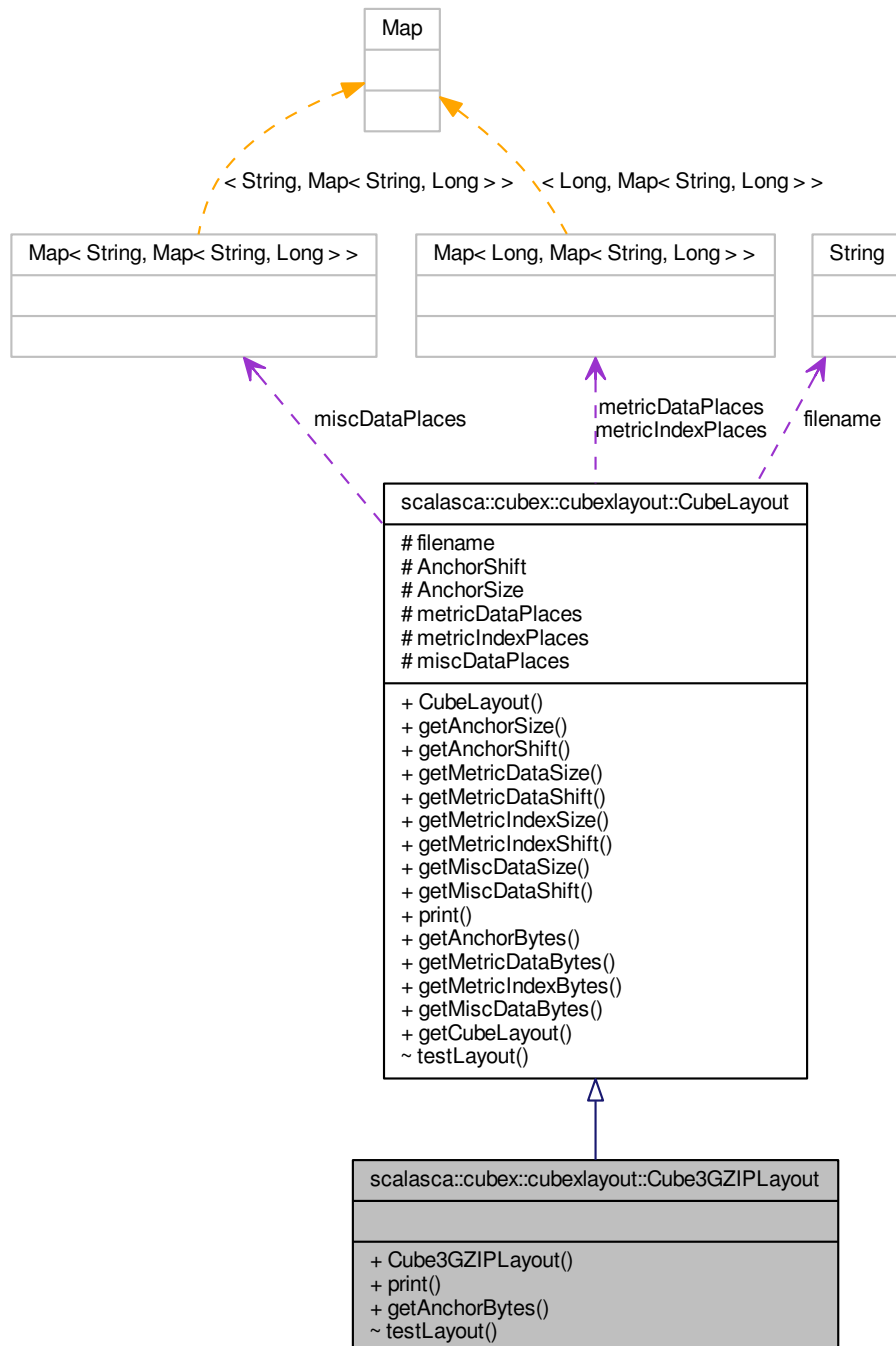
- `src/jcuber/src/cube/Cube.java`

6.16 scalasca::cubex::cubexlayout::Cube3GZIPLayout Class Reference

Inheritance diagram for scalasca::cubex::cubexlayout::Cube3GZIPLayout:



Collaboration diagram for scalasca::cubex::cubexlayout::Cube3GZIPLLayout:



Public Member Functions

- **Cube3GZIPLLayout** (String filename)
- void **print** ()
- byte[] **getAnchorBytes** () throws IOException

Static Package Functions

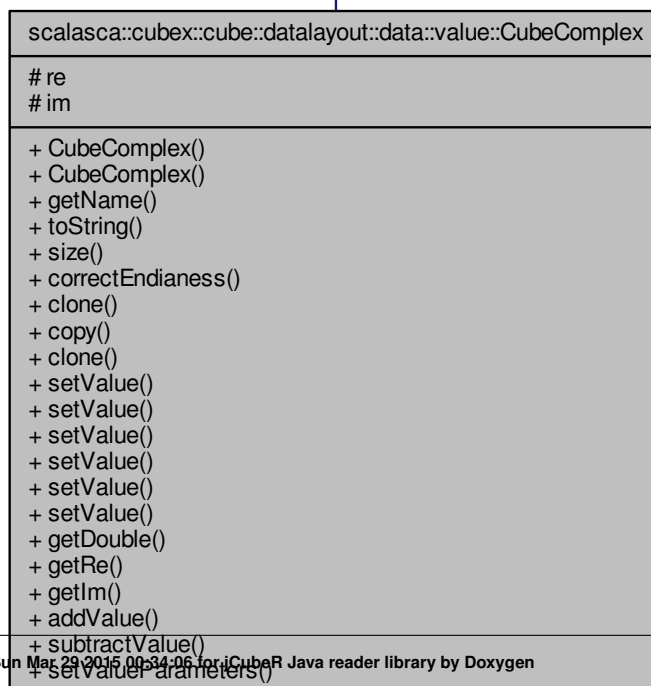
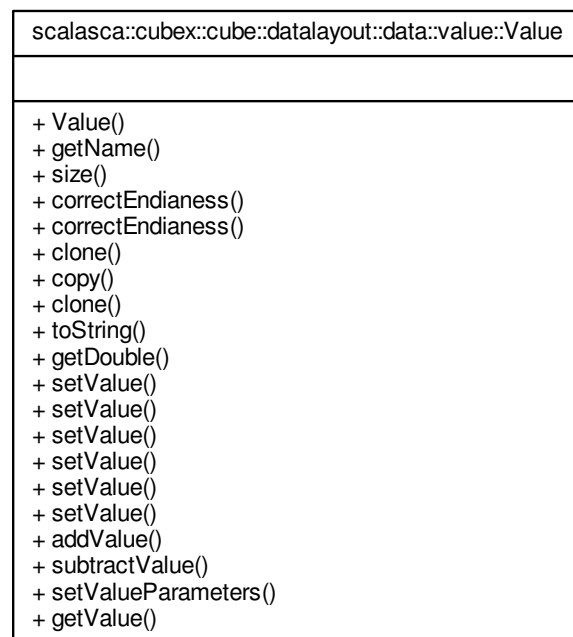
- static boolean **testLayout** (String _filename)

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

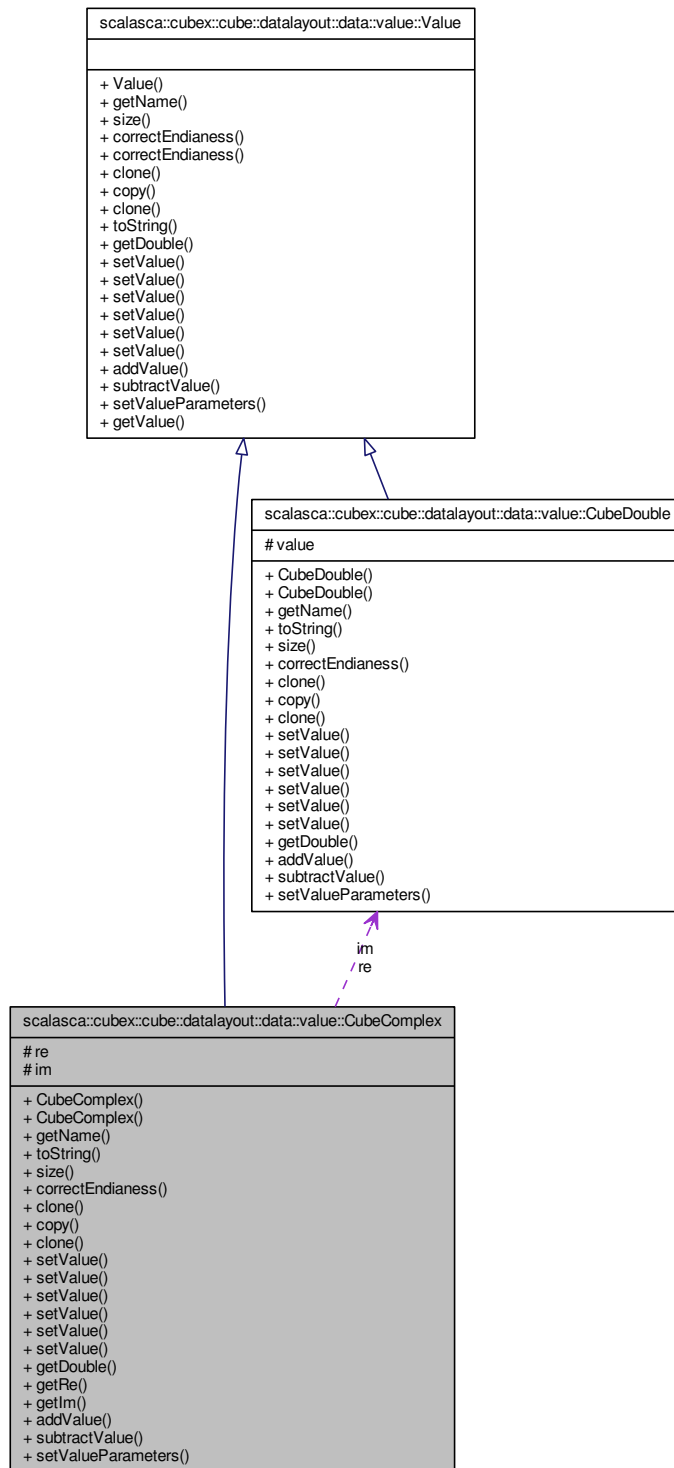
- src/jcuber/src/cubexlayout/Cube3GZIPLLayout.java

6.17 scalasca::cubex::cube::datalayout::data::value::CubeComplex Class Reference

Inheritance diagram for scalasca::cubex::cube::datalayout::data::value::CubeComplex:



Collaboration diagram for scalasca::cubex::cube::datalayout::data::value::CubeComplex:



Public Member Functions

- **CubeComplex** (double _re, double _im)
- String **getName** ()
- String **toString** ()
 - > makes copy of itself with value coming from *DataStream* as row of bytes
- int **size** ()
- void **correctEndianess** (Endianess _end, *DataInputStream* in, *DataOutputStream* out) throws *IOException*
- [Value](#) **clone** ()
- [Value](#) **copy** ()
 - > makes copy of itself with "0" value
- [Value](#) **clone** (*DataInputStream* in) throws *IOException*
 - > makes copy of itself with "same value"
- void **setValue** (String str)
- void **setValue** (byte v)
- void **setValue** (short v)
- void **setValue** (int v)
- void **setValue** (long v)
- void **setValue** (double v)
- double **getDouble** ()
- double **getRe** ()
- double **getIm** ()
- void **addValue** ([Value](#) v)
- void **subtractValue** ([Value](#) v)
- void **setValueParameters** (*Vector*< Double > parameters) throws *WrongNumberOfValueParametersException*

Protected Attributes

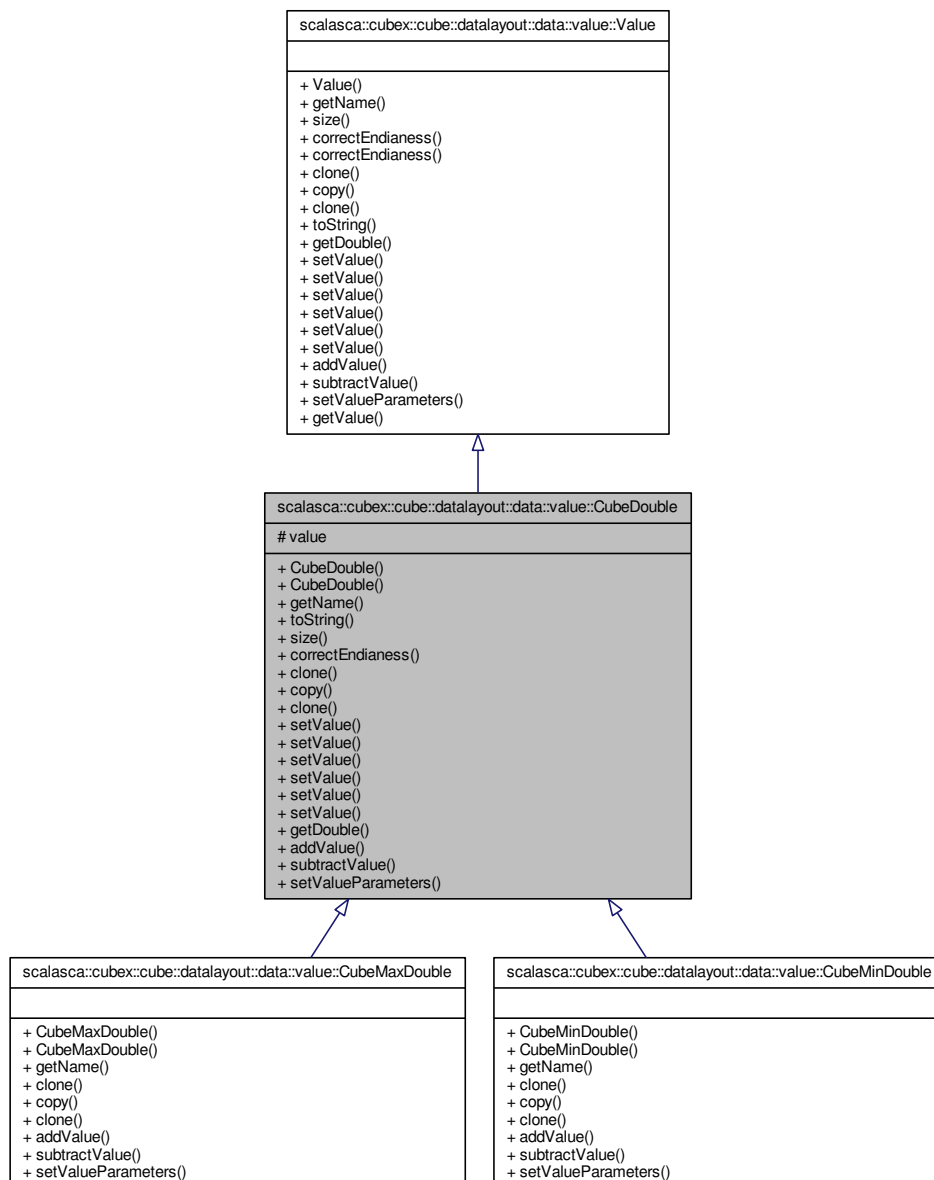
- [CubeDouble](#) re
- [CubeDouble](#) im

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

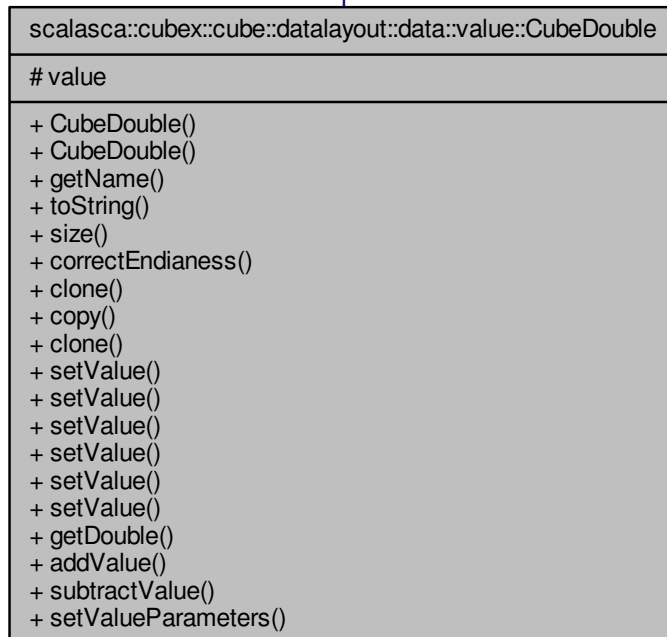
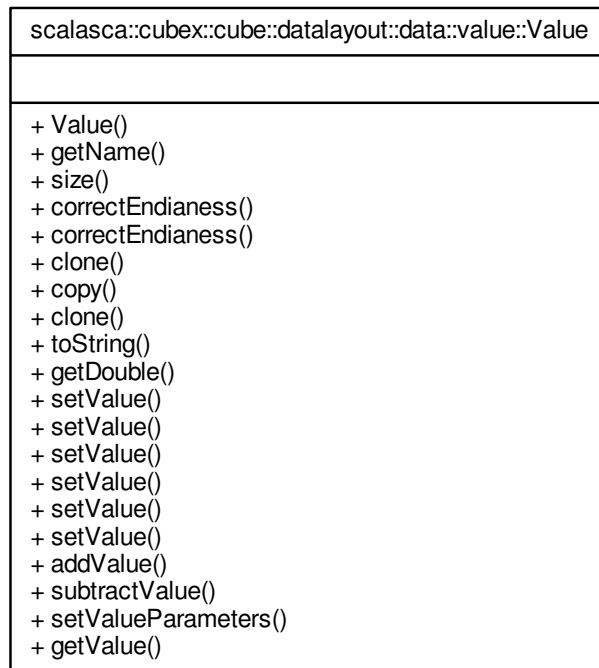
- src/jcuber/src/cube/datalayout/data/value/CubeComplex.java

6.18 scalasca::cubex::cube::datalayout::data::value::CubeDouble Class Reference

Inheritance diagram for scalasca::cubex::cube::datalayout::data::value::CubeDouble:



Collaboration diagram for `scalasca::cubex::cube::datalayout::data::value::CubeDouble`:



Public Member Functions

- **CubeDouble** (double _v)
- String **getName** ()
- String **toString** ()
 - > *makes copy of itself with value coming from DataStream as row of bytes*
- int **size** ()
- void **correctEndianess** (Endianess _end, DataInputStream in, DataOutputStream out) throws IOException
- **Value clone** ()
- **Value copy** ()
 - > *makes copy of itself with "0" value*
- **Value clone** (DataInputStream in) throws IOException
 - > *makes copy of itself with "same value"*
- void **setValue** (String v)
- void **setValue** (byte v)
- void **setValue** (short v)
- void **setValue** (int v)
- void **setValue** (long v)
- void **setValue** (double v)
- double **getDouble** ()
- void **addValue** (**Value** v)
- void **subtractValue** (**Value** v)
- void **setValueParameters** (Vector< Double > parameters) throws WrongNumberOfValueParametersException

Protected Attributes

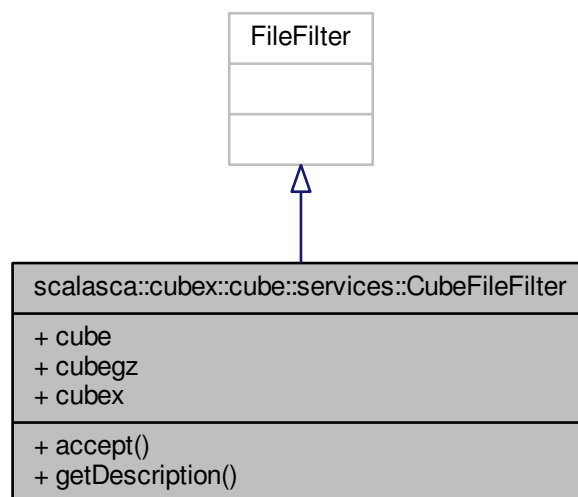
- double **value**

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

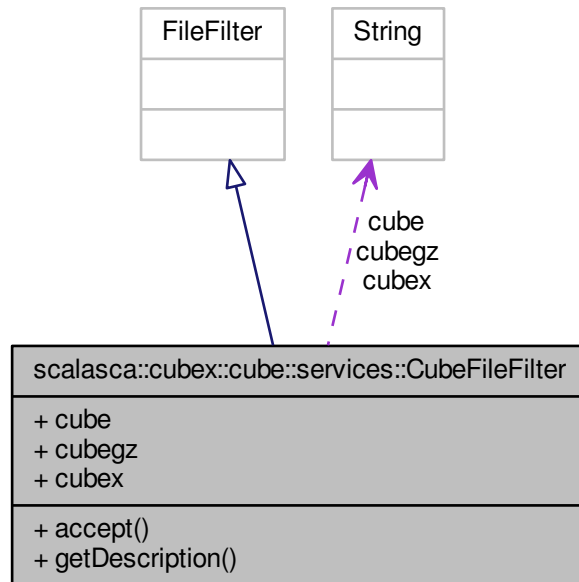
- src/jcuber/src/cube/datalayout/data/value/CubeDouble.java

6.19 scalasca::cubex::cube::services::CubeFileFilter Class Reference

Inheritance diagram for scalasca::cubex::cube::services::CubeFileFilter:



Collaboration diagram for `scalasca::cubex::cube::services::CubeFileFilter`:



Public Member Functions

- boolean **accept** (File f)
- String **getDescription** ()

Static Public Attributes

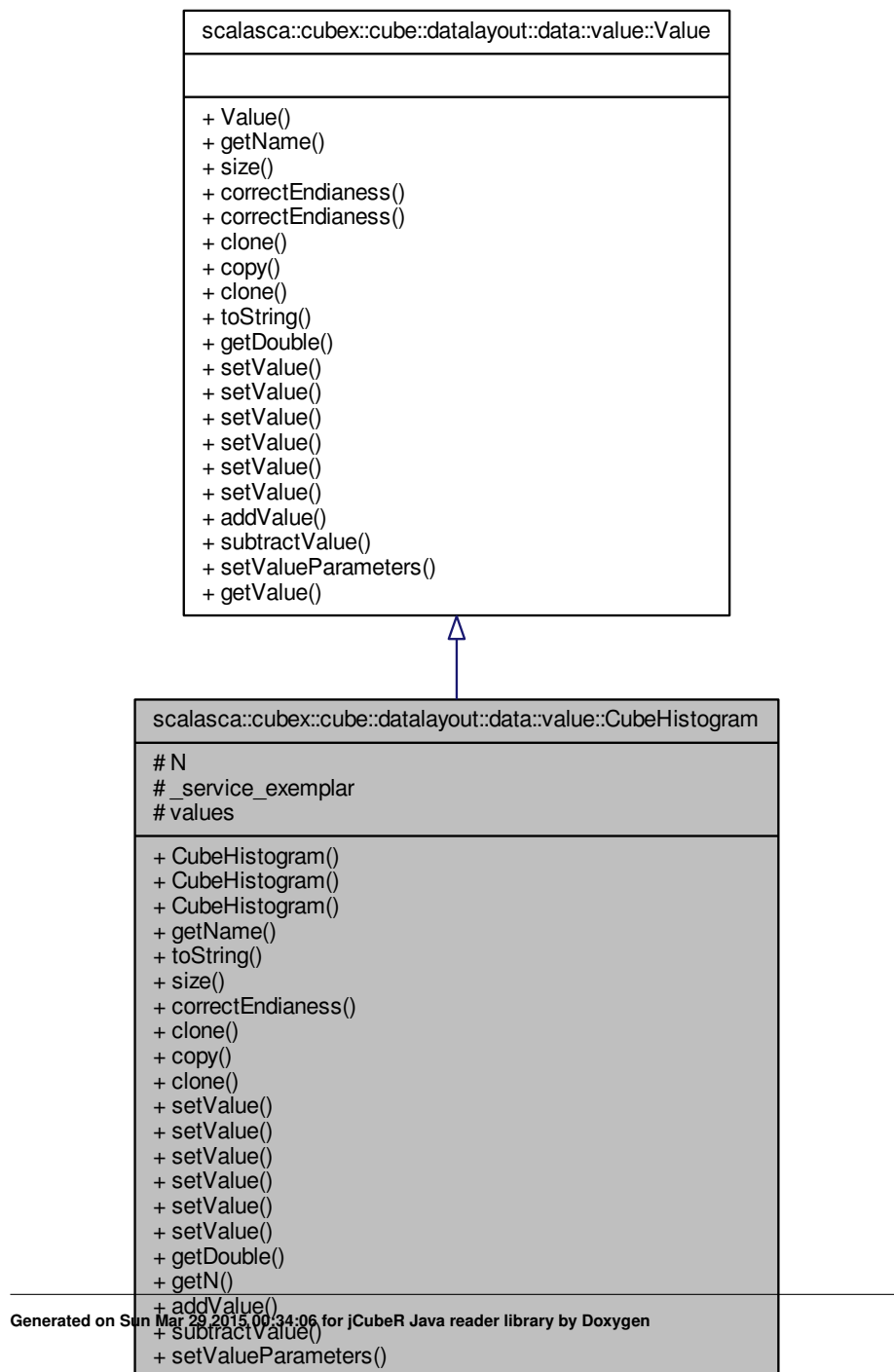
- static final String **cube** = ".cube"
- static final String **cubegz** = ".cube.gz"
- static final String **cubex** = ".cubex"

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

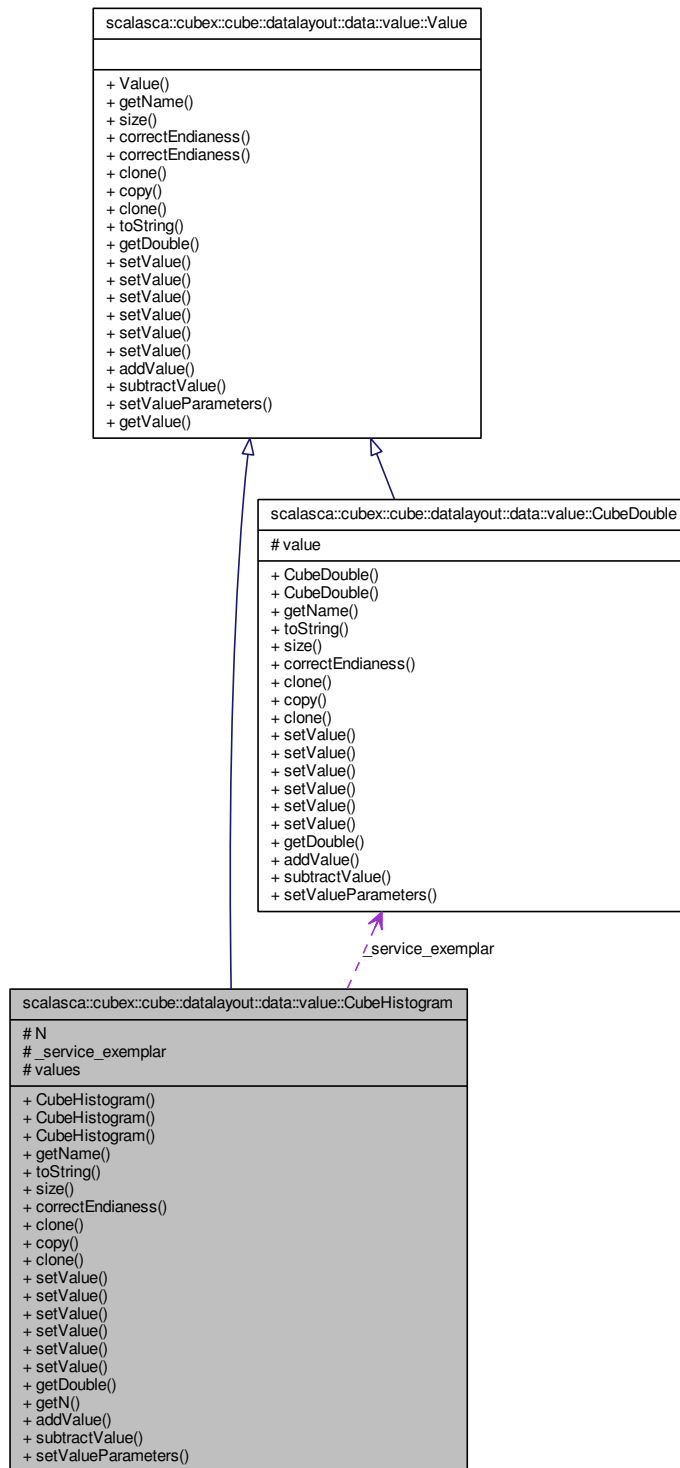
- `src/jcuber/src/cube/services/CubeFileFilter.java`

6.20 scalasca::cubex::cube::datalayout::data::value::CubeHistogram Class Reference

Inheritance diagram for scalasca::cubex::cube::datalayout::data::value::CubeHistogram:



Collaboration diagram for scalasca::cubex::cube::datalayout::data::value::CubeHistogram:



Public Member Functions

- **CubeHistogram** (int _n)
- **CubeHistogram** (Vector< [CubeDouble](#) > _values)
- String **getName** ()
- String **toString** ()
 - > makes copy of itself with value coming from *DataStream* as row of bytes
- int **size** ()
- void **correctEndianness** (Endianness _end, *DataInputStream* in, *DataOutputStream* out) throws *IOException*
- [Value](#) **clone** ()
- [Value](#) **copy** ()
 - > makes copy of itself with "0" value
- [Value](#) **clone** (*DataInputStream* in) throws *IOException*
 - > makes copy of itself with "same value"
- void **setValue** (String str)
- void **setValue** (byte v)
- void **setValue** (short v)
- void **setValue** (int v)
- void **setValue** (long v)
- void **setValue** (double v)
- double **getDouble** ()
- double **getN** ()
- void **addValue** ([Value](#) v)
- void **subtractValue** ([Value](#) v)
- void **setValueParameters** (Vector< Double > parameters) throws *WrongNumberOfValueParametersException*

Protected Attributes

- int **N**
- [CubeDouble](#) **_service_exemplar** = new [CubeDouble](#)()
- Vector< [CubeDouble](#) > **values** = new Vector<[CubeDouble](#)>()

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

- `src/jcuber/src/cube/datalayout/data/value/CubeHistogram.java`

6.21 scalasca::cubex::cube::datalayout::data::value::CubeInt16 Class Reference

Inheritance diagram for scalasca::cubex::cube::datalayout::data::value::CubeInt16:

scalasca::cubex::cube::datalayout::data::value::Value

+ Value()
+ getName()
+ size()
+ correctEndianess()
+ correctEndianess()
+ clone()
+ copy()
+ clone()
+ toString()
+ getDouble()
+ setValue()
+ setValue()
+ setValue()
+ setValue()
+ setValue()
+ setValue()
+ addValue()
+ subtractValue()
+ setValueParameters()
+ getValue()



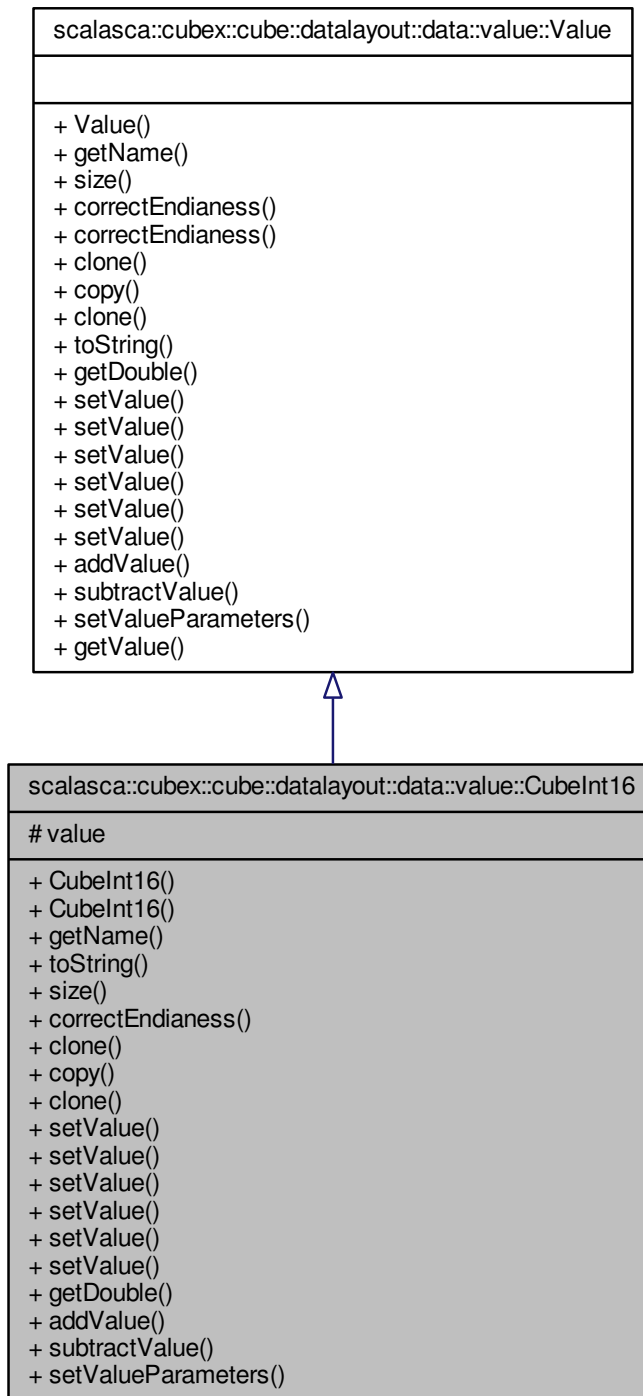
scalasca::cubex::cube::datalayout::data::value::CubeInt16

value

+ CubeInt16()
+ CubeInt16()
+ getName()
+ toString()
+ size()
+ correctEndianess()
+ clone()
+ copy()
+ clone()
+ setValue()
+ setValue()
+ setValue()
+ setValue()
+ setValue()
+ setValue()
+ getDouble()
+ addValue()
+ subtractValue()
+ setValueParameters()

6.21 scalasca::cubex::cube::datalayout::data::value::CubeInt16 Class Reference

Collaboration diagram for scalasca::cubex::cube::datalayout::data::value::CubeInt16:



Public Member Functions

- **CubeInt16** (short _v)
- String **getName** ()
- String **toString** ()
 - > *makes copy of itself with value coming from DataStream as row of bytes*
- int **size** ()
- void **correctEndianess** (Endianess _end, DataInputStream in, DataOutputStream out) throws IOException
- **Value clone** ()
- **Value copy** ()
 - > *makes copy of itself with "0" value*
- **Value clone** (DataInputStream in) throws IOException
 - > *makes copy of itself with "same value"*
- void **setValue** (String v)
- void **setValue** (byte v)
- void **setValue** (short v)
- void **setValue** (int v)
- void **setValue** (long v)
- void **setValue** (double v)
- double **getDouble** ()
- void **addValue** (**Value** v)
- void **subtractValue** (**Value** v)
- void **setValueParameters** (Vector< Double > parameters) throws WrongNumberOfValueParametersException

Protected Attributes

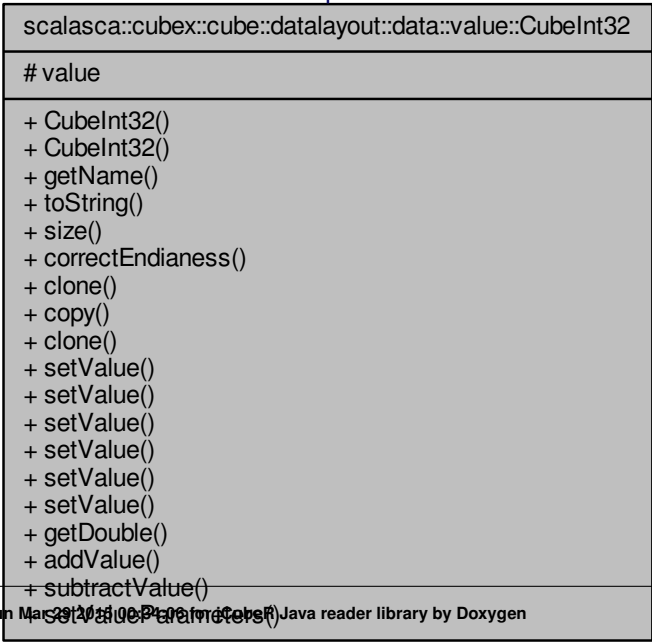
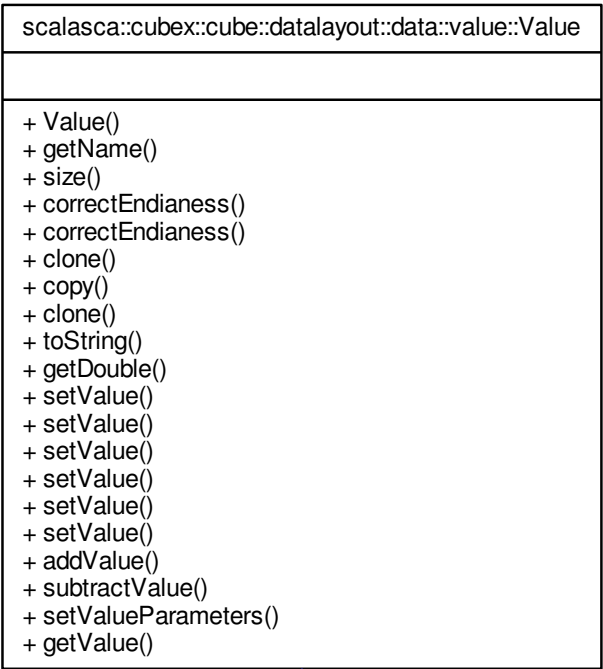
- short **value**

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

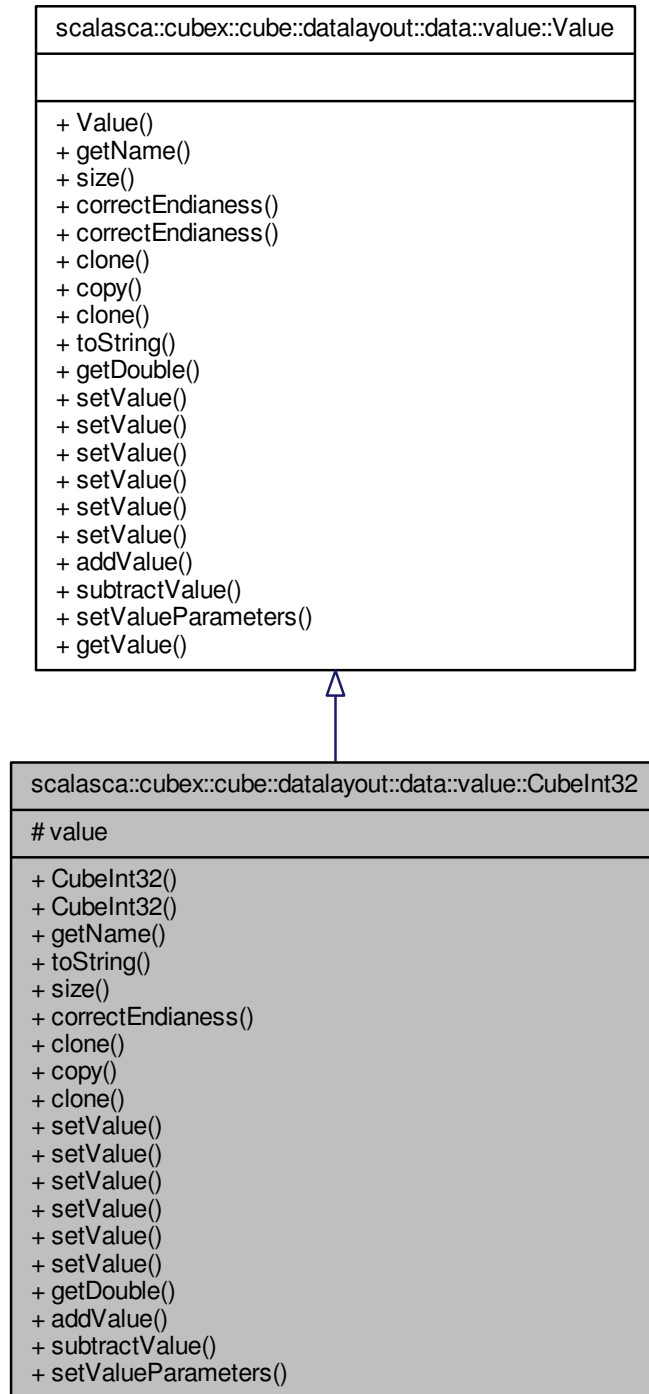
- src/jcuber/src/cube/datalayout/data/value/CubeInt16.java

6.22 scalasca::cubex::cube::datalayout::data::value::CubeInt32 Class Reference

Inheritance diagram for scalasca::cubex::cube::datalayout::data::value::CubeInt32:



Collaboration diagram for scalasca::cubex::cube::datalayout::data::value::CubeInt32:



6.22 scalasca::cubex::cube::datalayout::data::value::CubeInt32 Class Reference

Public Member Functions

- **CubeInt32** (int _v)
- String **getName** ()
- String **toString** ()
 - > makes copy of itself with value coming from DataStream as row of bytes
- int **size** ()
- void **correctEndianess** (Endianess _end, DataInputStream in, DataOutputStream out) throws IOException
- **Value clone** ()
- **Value copy** ()
 - > makes copy of itself with "0" value
- **Value clone** (DataInputStream in) throws IOException
 - > makes copy of itself with "same value"
- void **setValue** (String v)
- void **setValue** (byte v)
- void **setValue** (short v)
- void **setValue** (int v)
- void **setValue** (long v)
- void **setValue** (double v)
- double **getDouble** ()
- void **addValue** (**Value** v)
- void **subtractValue** (**Value** v)
- void **setValueParameters** (Vector< Double > parameters) throws WrongNumberOfValueParametersException

Protected Attributes

- int **value**

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

- src/jcuber/src/cube/datalayout/data/value/CubeInt32.java

6.23 scalasca::cubex::cube::datalayout::data::value::CubeInt64 Class Reference

Inheritance diagram for scalasca::cubex::cube::datalayout::data::value::CubeInt64:

scalasca::cubex::cube::datalayout::data::value::Value

+ Value()
+ getName()
+ size()
+ correctEndianess()
+ correctEndianess()
+ clone()
+ copy()
+ clone()
+ toString()
+ getDouble()
+ setValue()
+ setValue()
+ setValue()
+ setValue()
+ setValue()
+ setValue()
+ addValue()
+ subtractValue()
+ setValueParameters()
+ getValue()



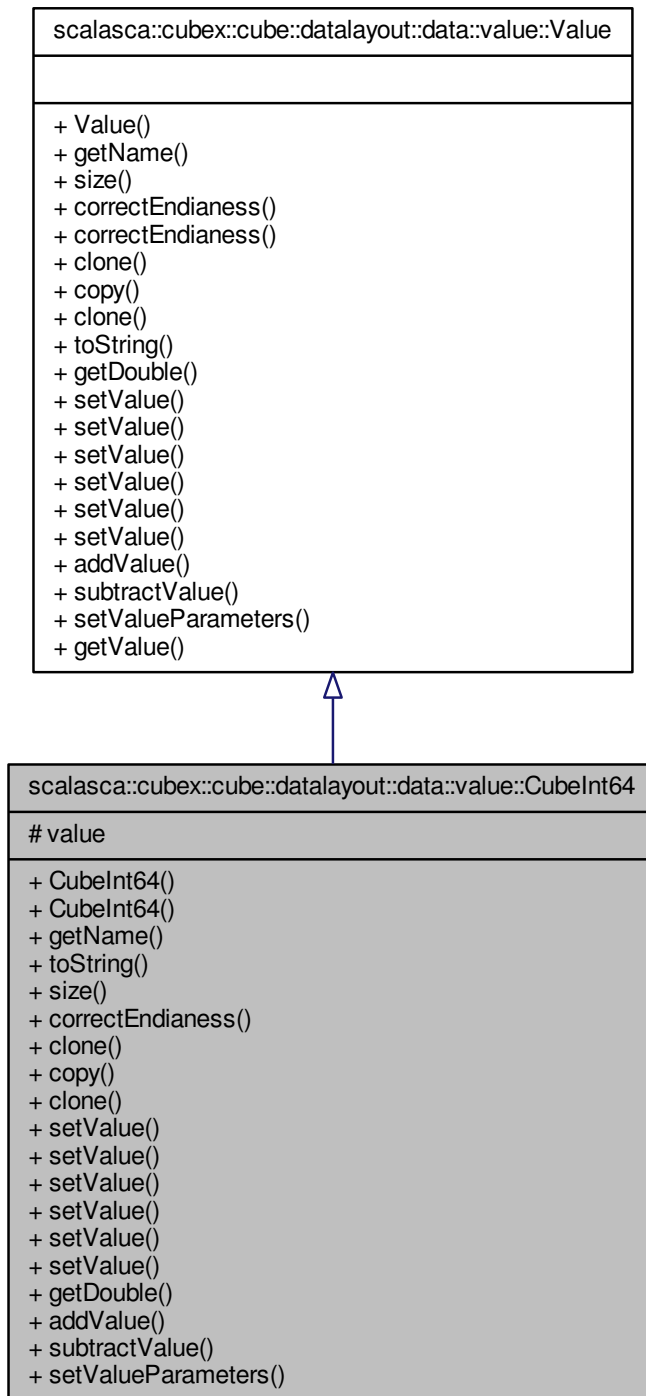
scalasca::cubex::cube::datalayout::data::value::CubeInt64

value

+ CubeInt64()
+ CubeInt64()
+ getName()
+ toString()
+ size()
+ correctEndianess()
+ clone()
+ copy()
+ clone()
+ setValue()
+ setValue()
+ setValue()
+ setValue()
+ setValue()
+ setValue()
+ getDouble()
+ addValue()
+ subtractValue()
+ setValueParameters()

6.23 scalasca::cubex::cube::datalayout::data::value::CubeInt64 Class Reference 38

Collaboration diagram for scalasca::cubex::cube::datalayout::data::value::CubeInt64:



Public Member Functions

- **CubeInt64** (long _v)
- String **getName** ()
- String **toString** ()
 - > makes copy of itself with value coming from *DataStream* as row of bytes
- int **size** ()
- void **correctEndianess** (Endianess _end, *DataInputStream* in, *DataOutputStream* out) throws *IOException*
- **Value clone** ()
- **Value copy** ()
 - > makes copy of itself with "0" value
- **Value clone** (*DataInputStream* in) throws *IOException*
 - > makes copy of itself with "same value"
- void **setValue** (String v)
- void **setValue** (byte v)
- void **setValue** (short v)
- void **setValue** (int v)
- void **setValue** (long v)
- void **setValue** (double v)
- double **getDouble** ()
- void **addValue** (**Value** v)
- void **subtractValue** (**Value** v)
- void **setValueParameters** (Vector< Double > parameters) throws *WrongNumberOfValueParametersException*

Protected Attributes

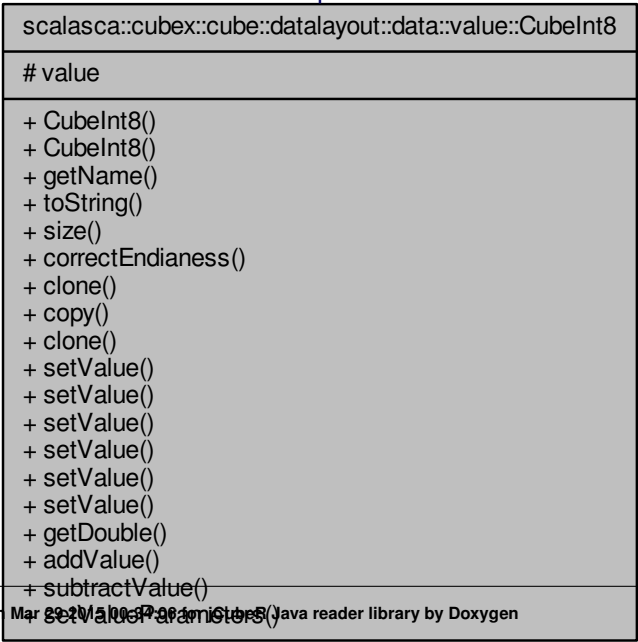
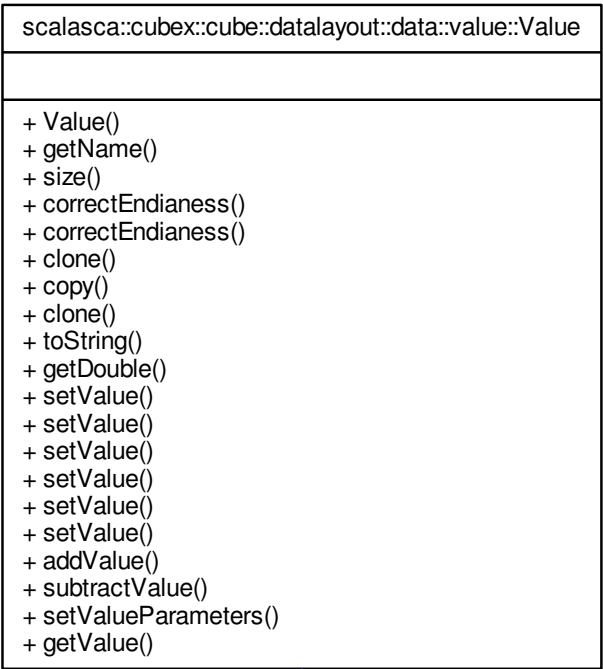
- long **value**

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

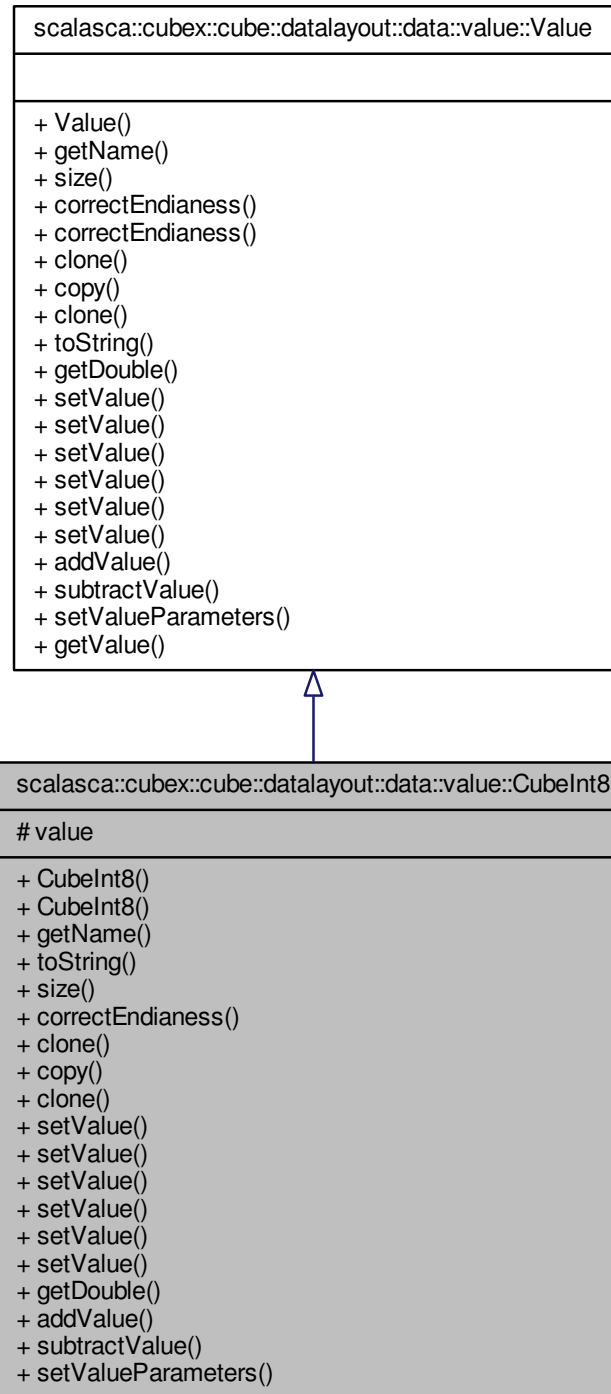
- `src/jcuber/src/cube/datalayout/data/value/CubeInt64.java`

6.24 scalasca::cubex::cube::datalayout::data::value::CubeInt8 Class Reference

Inheritance diagram for scalasca::cubex::cube::datalayout::data::value::CubeInt8:



Collaboration diagram for scalasca::cubex::cube::datalayout::data::value::CubeInt8:



Public Member Functions

- **CubeInt8** (byte _v)
- String **getName** ()
- String **toString** ()
 - > makes copy of itself with value coming from DataStream as row of bytes
- int **size** ()
- void **correctEndianess** (Endianess _end, DataInputStream in, DataOutputStream out) throws IOException
- **Value clone** ()
- **Value copy** ()
 - > makes copy of itself with "0" value
- **Value clone** (DataInputStream in) throws IOException
 - > makes copy of itself with "same value"
- void **setValue** (String v)
- void **setValue** (byte v)
- void **setValue** (short v)
- void **setValue** (int v)
- void **setValue** (long v)
- void **setValue** (double v)
- double **getDouble** ()
- void **addValue** (**Value** v)
- void **subtractValue** (**Value** v)
- void **setValueParameters** (Vector< Double > parameters) throws WrongNumberOfValueParametersException

Protected Attributes

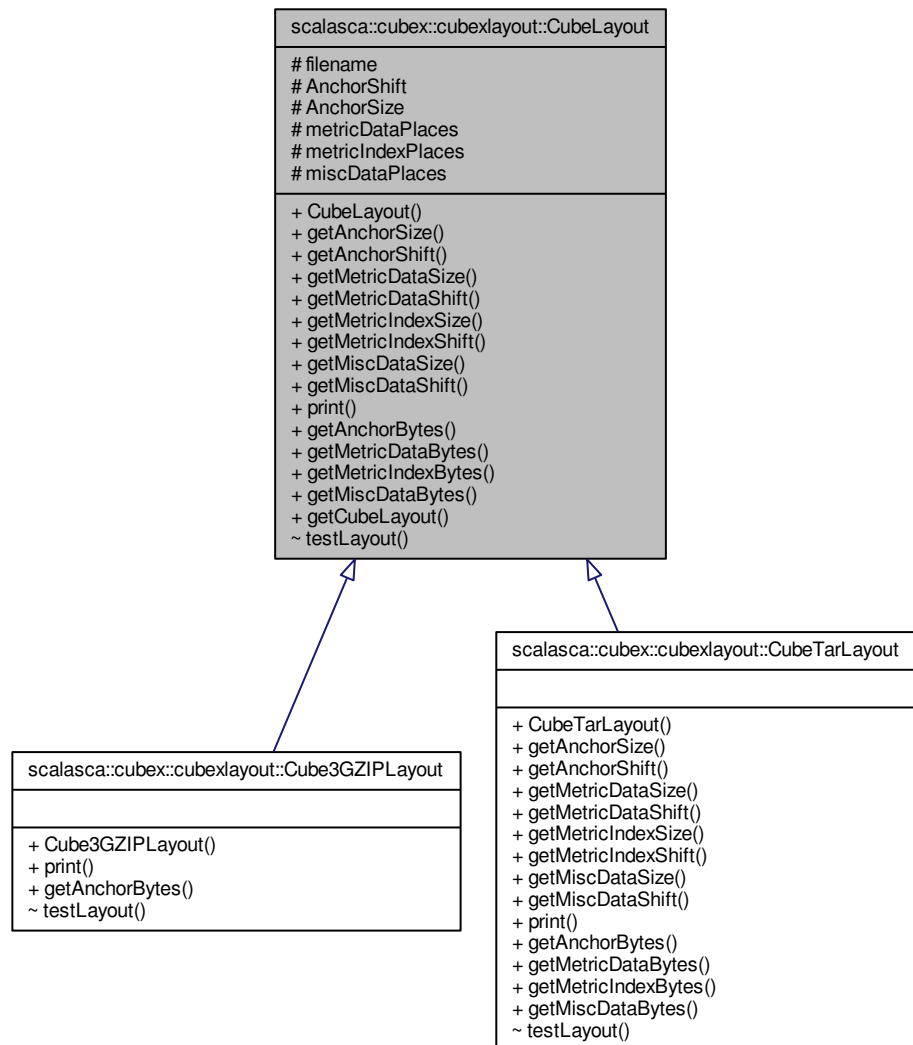
- byte **value**

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

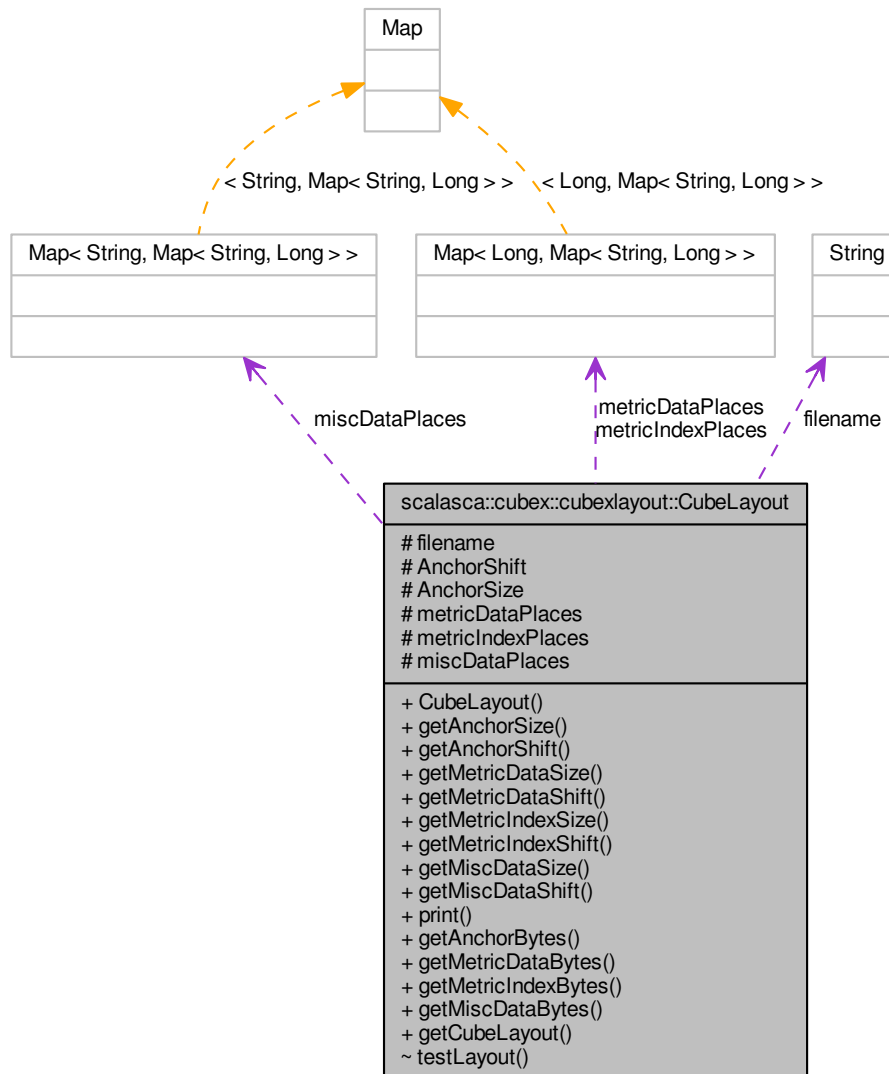
- src/jcuber/src/cube/datalayout/data/value/CubeInt8.java

6.25 scalasca::cubex::cubexlayout::CubeLayout Class Reference

Inheritance diagram for scalasca::cubex::cubexlayout::CubeLayout:



Collaboration diagram for scalasca::cubex::cubexlayout::CubeLayout:



Public Member Functions

- **CubeLayout** (String _filename)
- long **getAnchorSize** ()
- long **getAnchorShift** ()
- long **getMetricDataSize** (int id) throws MissingMetricInCubeReport

- long **getMetricDataShift** (int id) throws MissingMetricInCubeReport
- long **getMetricIndexSize** (int id) throws MissingMetricInCubeReport
- long **getMetricIndexShift** (int id) throws MissingMetricInCubeReport
- long **getMiscDataSize** (String name) throws MissingMiscInCubeReport
- long **getMiscDataShift** (String name) throws MissingMiscInCubeReport
- void **print** ()
- byte[] **getAnchorBytes** () throws IOException
- byte[] **getMetricDataBytes** (int id) throws IOException, MissingMetricInCubeReport
- byte[] **getMetricIndexBytes** (int id) throws IOException, MissingMetricInCubeReport
- byte[] **getMiscDataBytes** (String name) throws IOException, MissingMiscInCubeReport

Static Public Member Functions

- static [CubeLayout](#) **getCubeLayout** (String _filename)

Protected Attributes

- String **filename**
- long **AnchorShift** = -1
- long **AnchorSize** = -1
- Map< Long, Map< String, Long > > **metricDataPlaces** = new HashMap<Long, Map<String, Long> >()
- Map< Long, Map< String, Long > > **metricIndexPlaces** = new HashMap<Long, Map<String, Long> >()
- Map< String, Map< String, Long > > **miscDataPlaces** = new HashMap<String, Map<String, Long> >()

Static Package Functions

- static boolean **testLayout** (String _filename)

6.25.1 Detailed Description

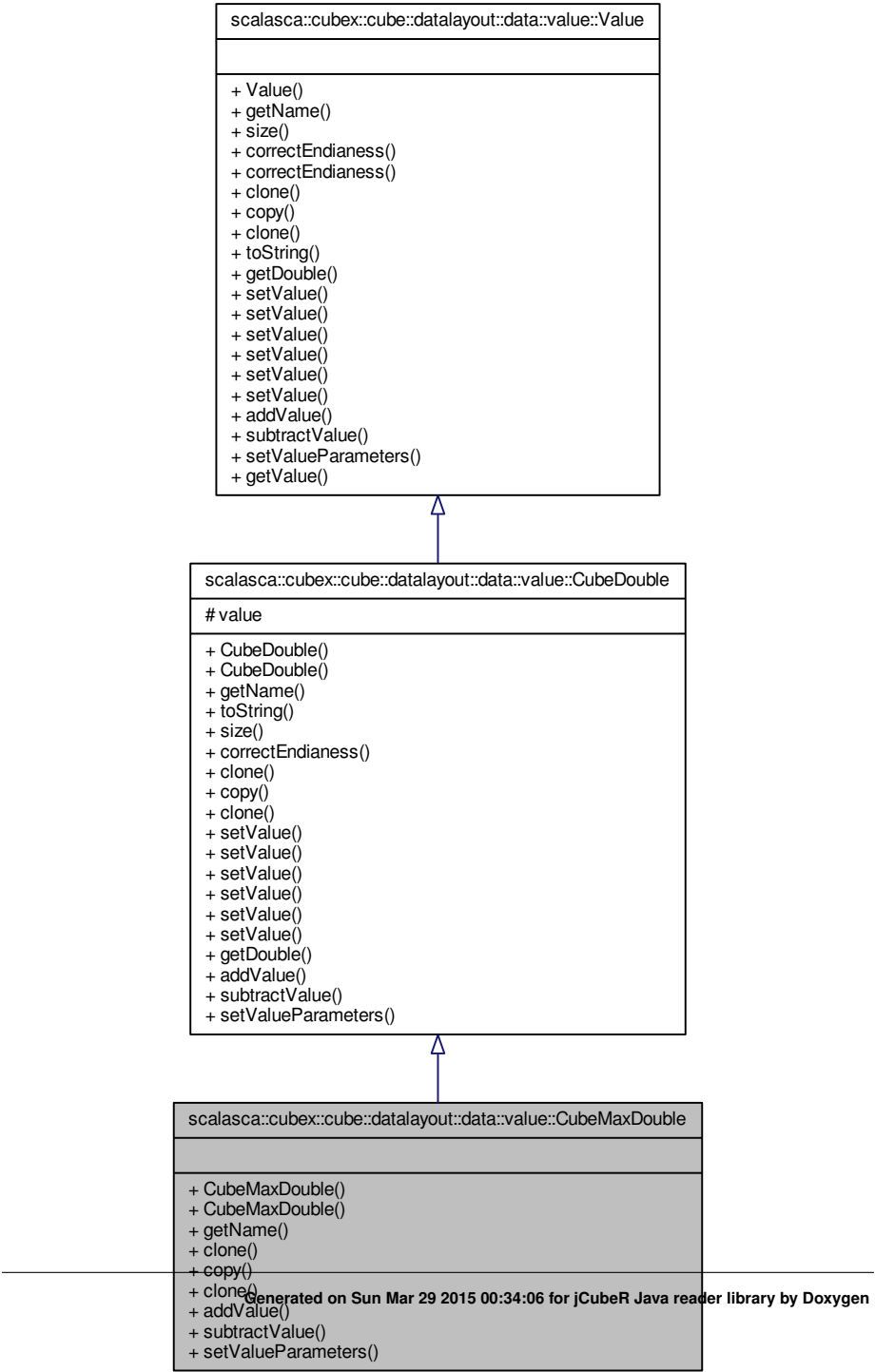
Provides for a cube parser information about the place where to look for an anchor and metric data files. Besides of that reads content of that file and returns as an array byte[]. Cube uses that array and does not read in file

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

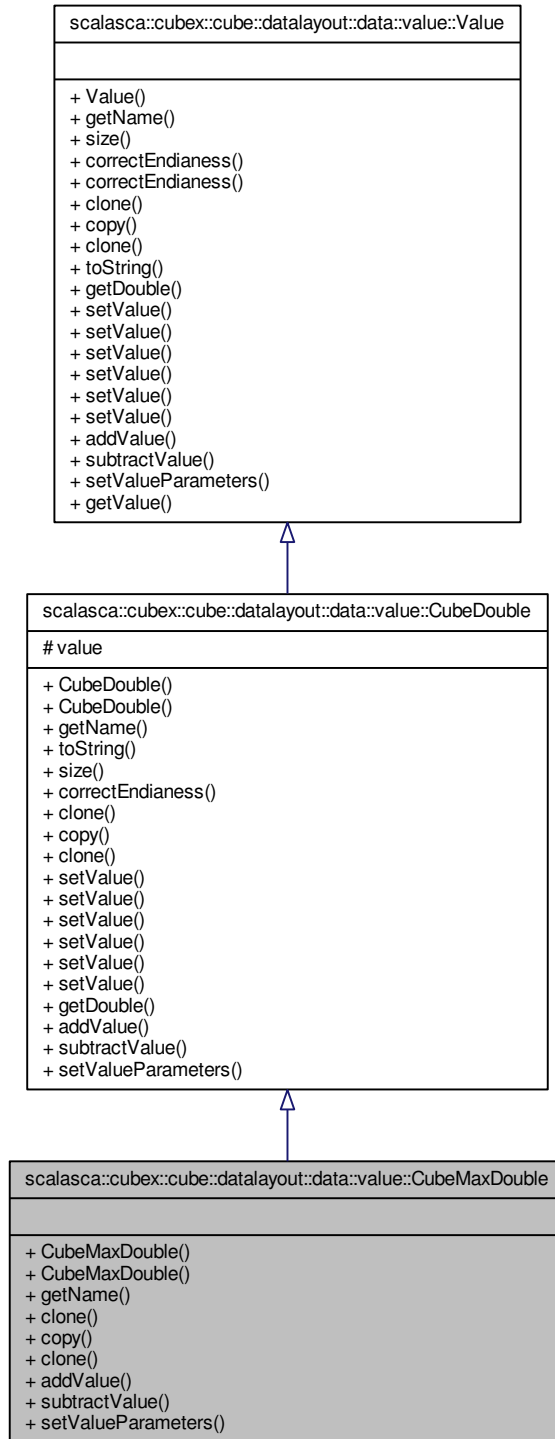
- src/jcuber/src/cubexlayout/CubeLayout.java

6.26 scalasca::cubex::cube::datalayout::data::value::CubeMaxDouble
Class Reference

Inheritance diagram for scalasca::cubex::cube::datalayout::data::value::CubeMaxDouble:



Collaboration diagram for scalasca::cubex::cube::datalayout::data::value::CubeMaxDouble:



Public Member Functions

- **CubeMaxDouble** (double _v)

- String **getName** ()

- [Value](#) **clone** ()

- [Value](#) **copy** ()

> makes copy of itself with "0" value

- [Value](#) **clone** (DataInputStream in) throws IOException

> makes copy of itself with "same value

- void **addValue** ([Value](#) v)

- void **subtractValue** ([Value](#) v)

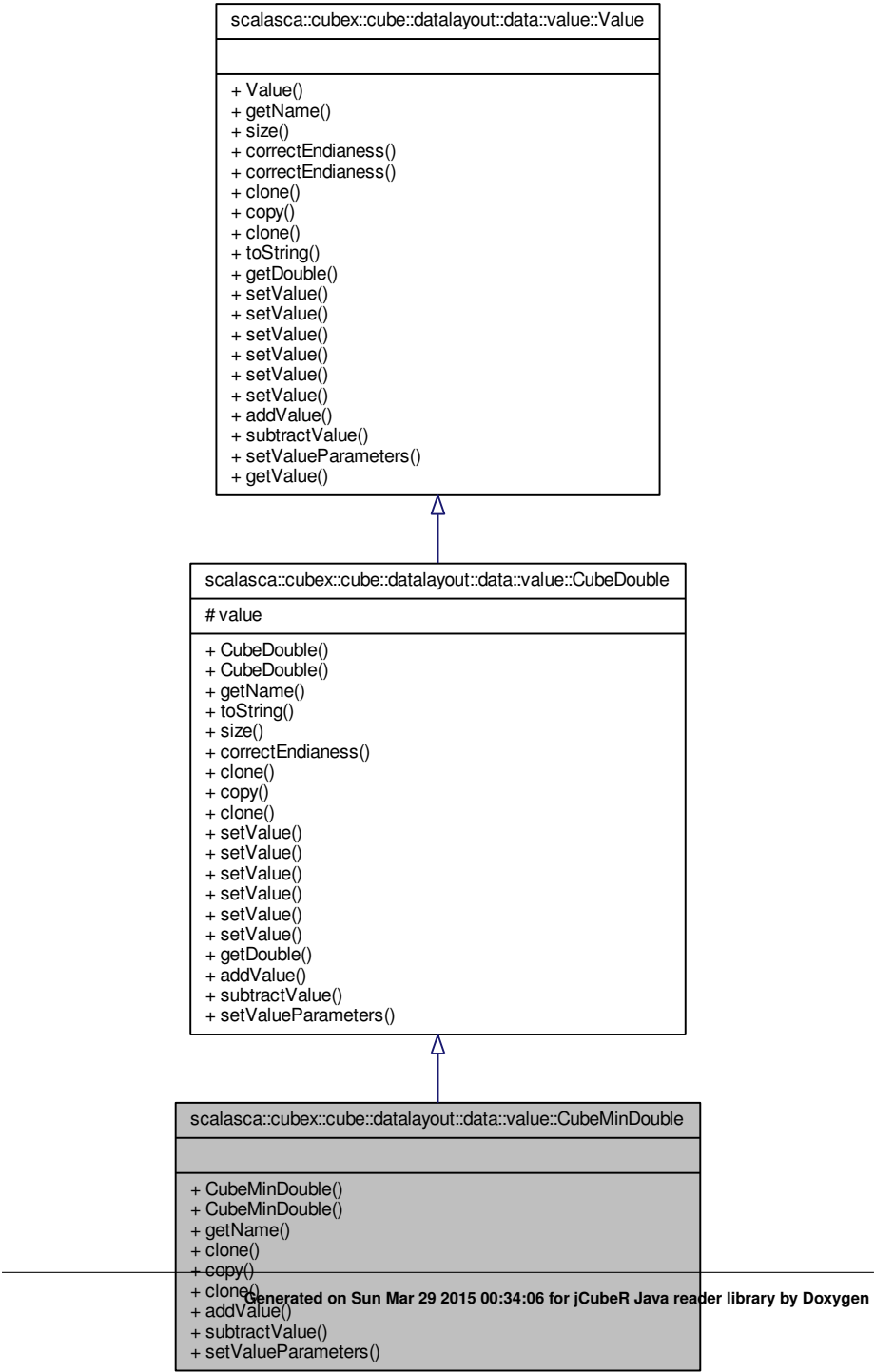
- void **setValueParameters** (Vector< Double > parameters) throws WrongNumberOfValueParametersException

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

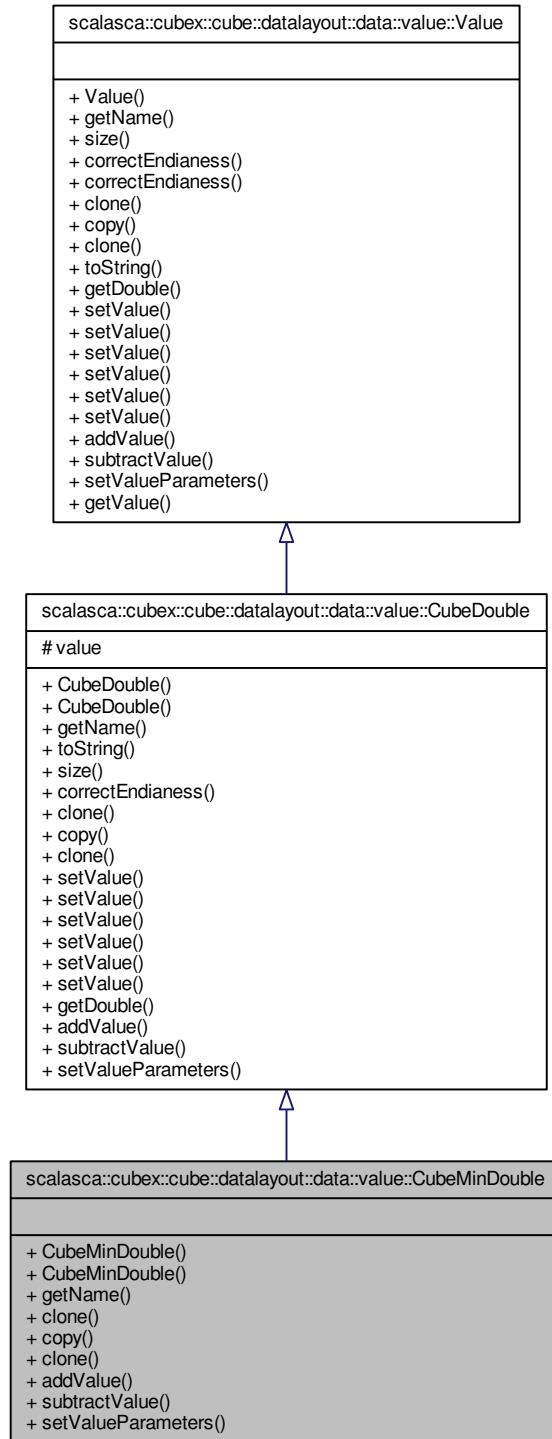
- src/jcuber/src/cube/datalayout/data/value/CubeMaxDouble.java

6.27 scalasca::cubex::cube::datalayout::data::value::CubeMinDouble
Class Reference

Inheritance diagram for scalasca::cubex::cube::datalayout::data::value::CubeMinDouble:



Collaboration diagram for scalasca::cubex::cube::datalayout::data::value::CubeMinDouble:



Public Member Functions

- **CubeMinDouble** (double _v)

- String **getName** ()

- [Value](#) **clone** ()

- [Value](#) **copy** ()

> makes copy of itself with "0" value

- [Value](#) **clone** (DataInputStream in) throws IOException

> makes copy of itself with "same value

- void **addValue** ([Value](#) v)

- void **subtractValue** ([Value](#) v)

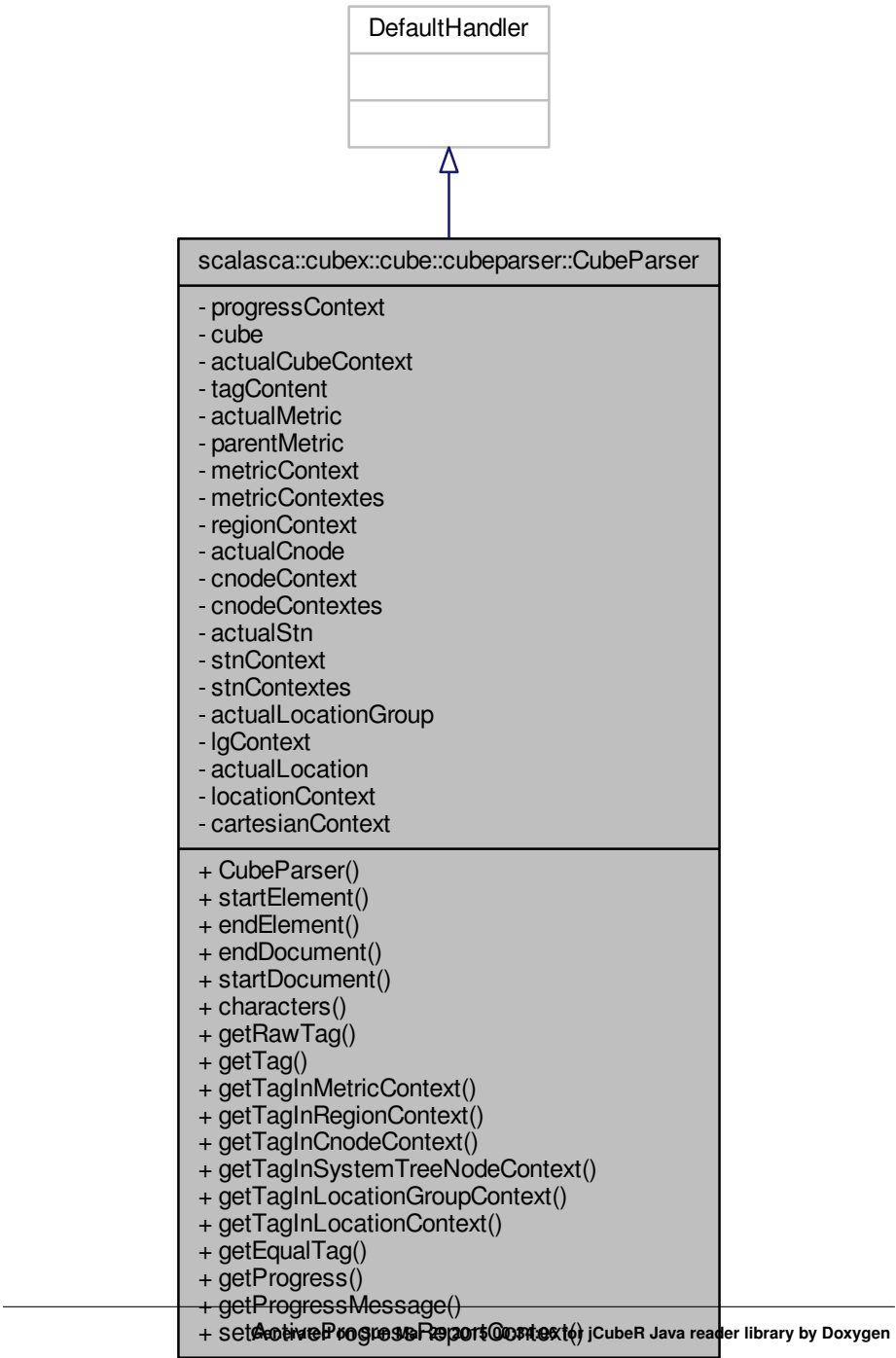
- void **setValueParameters** (Vector< Double > parameters) throws WrongNumberOfValueParametersException

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

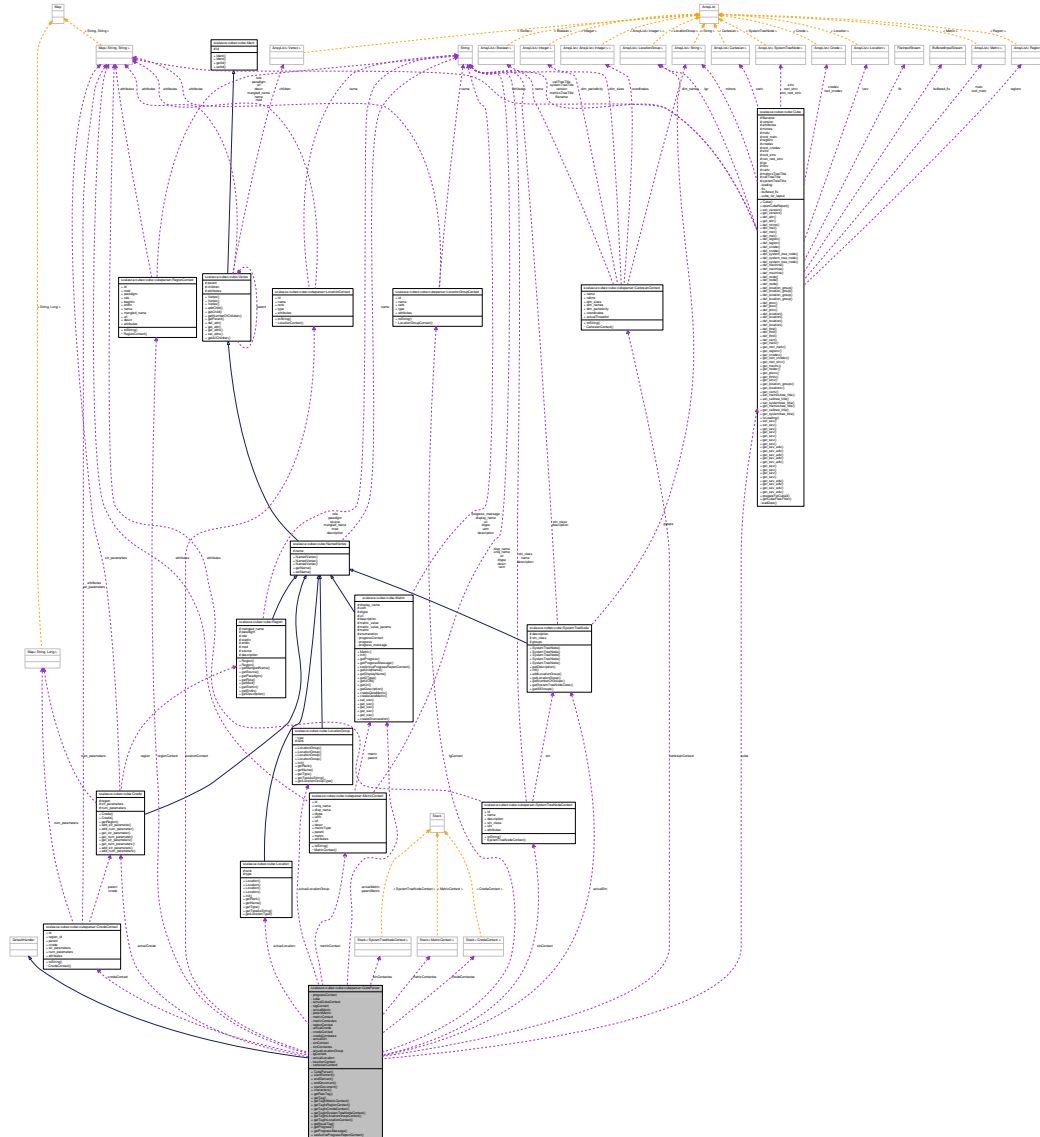
- src/jcuber/src/cube/datalayout/data/value/CubeMinDouble.java

6.28 scalasca::cubex::cube::cubeparser::CubeParser Class Reference

Inheritance diagram for scalasca::cubex::cube::cubeparser::CubeParser:



Collaboration diagram for scalasca::cubex::cube::cubeparser::CubeParser:



Public Member Functions

- **CubeParser** (*Cube* _cube)
- void **startElement** (String uri, String localName, String qName, Attributes attributes) throws SAXException
- void **endElement** (String uri, String localName, String qName) throws SAXException
- void **endDocument** () throws SAXException

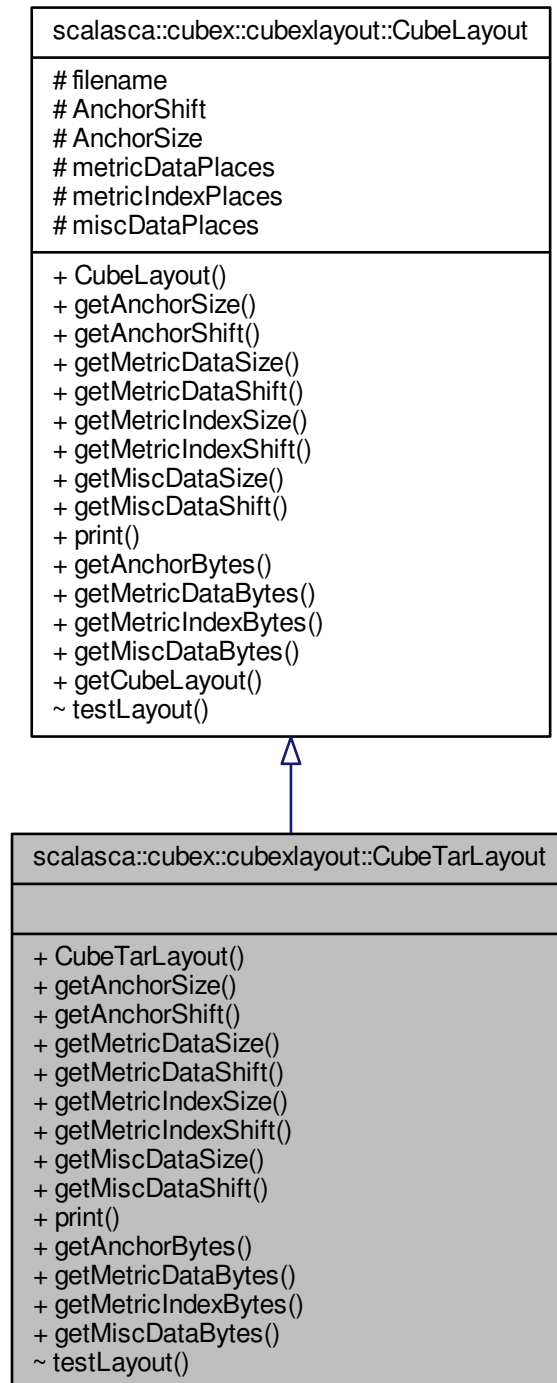
- void **startDocument** () throws SAXException
- void **characters** (char[] ch, int start, int length) throws SAXException
- CubeRawTag **getRawTag** (String tagName)
- CubeTag **getTag** (String tagName, CubeContext context)
- CubeTag **getTagInMetricContext** (CubeRawTag raw_tag)
- CubeTag **getTagInRegionContext** (CubeRawTag raw_tag)
- CubeTag **getTagInCnodeContext** (CubeRawTag raw_tag)
- CubeTag **getTagInSystemTreeNodeContext** (CubeRawTag raw_tag)
- CubeTag **getTagInLocationGroupContext** (CubeRawTag raw_tag)
- CubeTag **getTagInLocationContext** (CubeRawTag raw_tag)
- CubeTag **getEqualTag** (CubeRawTag rawTag)
- double **getProgress** ()
- String **getProgressMessage** ()
- void **setActiveProgressReportContext** (ProgressReportContext _prc)

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

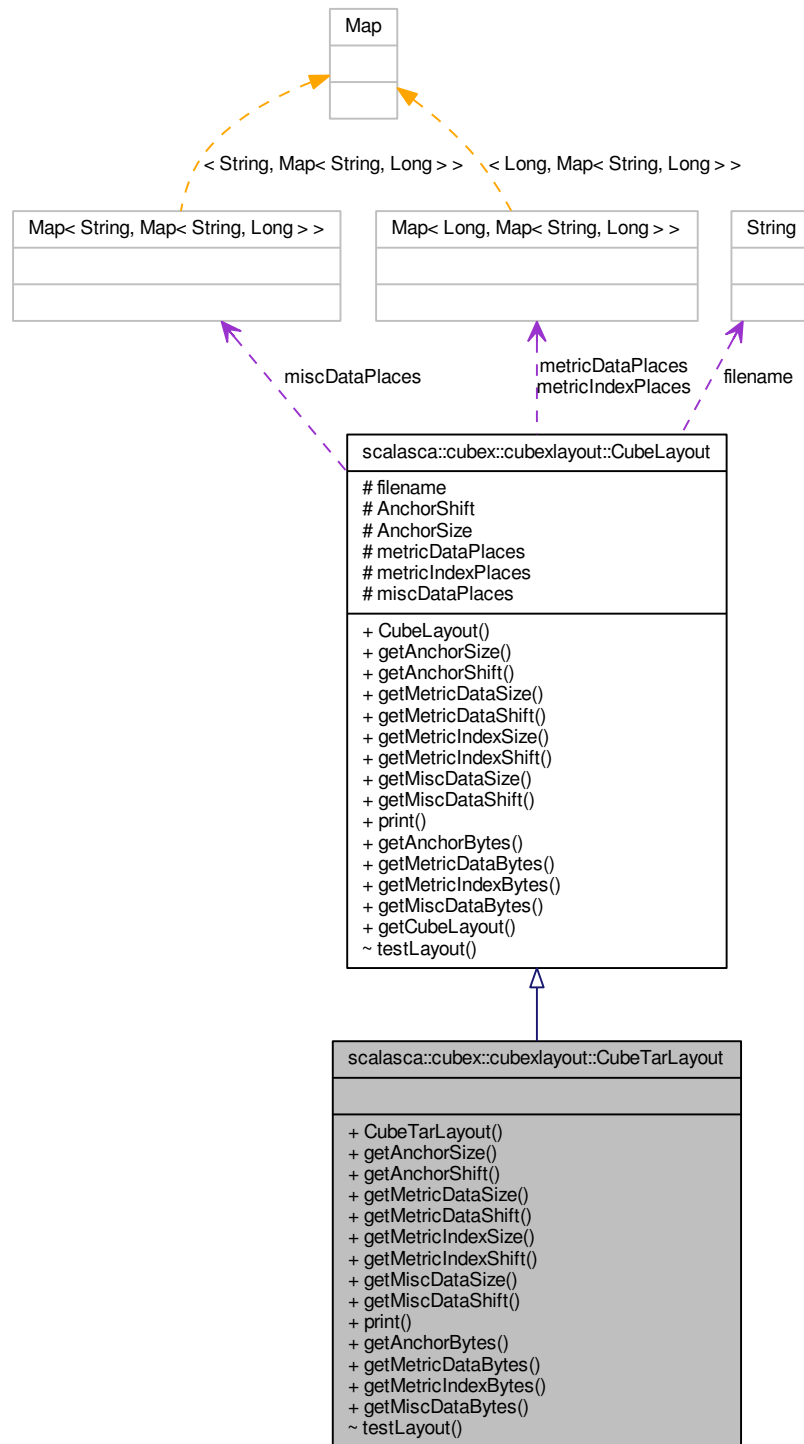
- src/jcuber/src/cube/cubeparser/CubeParser.java

6.29 scalasca::cubex::cubexlayout::CubeTarLayout Class Reference

Inheritance diagram for scalasca::cubex::cubexlayout::CubeTarLayout:



Collaboration diagram for `scalasca::cubex::cubexlayout::CubeTarLayout`:



Public Member Functions

- **CubeTarLayout** (String filename)
- long **getAnchorSize** ()
- long **getAnchorShift** ()
- long **getMetricDataSize** (int id) throws MissingMetricInCubeReport
- long **getMetricDataShift** (int id) throws MissingMetricInCubeReport
- long **getMetricIndexSize** (int id) throws MissingMetricInCubeReport
- long **getMetricIndexShift** (int id) throws MissingMetricInCubeReport
- long **getMiscDataSize** (String name) throws MissingMiscInCubeReport
- long **getMiscDataShift** (String name) throws MissingMiscInCubeReport
- void **print** ()
- byte[] **getAnchorBytes** () throws IOException
- byte[] **getMetricDataBytes** (int id) throws IOException
- byte[] **getMetricIndexBytes** (int id) throws IOException
- byte[] **getMiscDataBytes** (String name) throws IOException, MissingMiscInCubeReport

Static Package Functions

- static boolean **testLayout** (String _filename)

6.29.1 Detailed Description

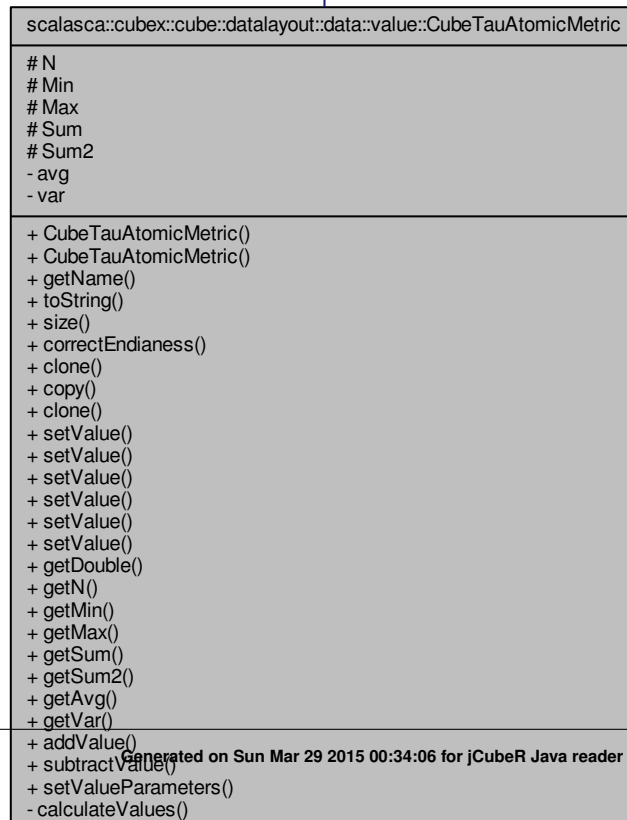
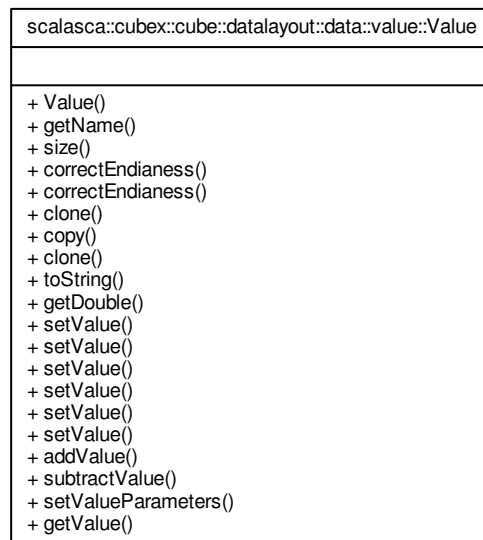
Provides for a cube parser information about the place where to look for an anchor and metric data files if it is cubex report. Besides of that reads content of that file and returns as an array byte[]. Cube uses that array and does not read in file. It perform also check for the format.

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

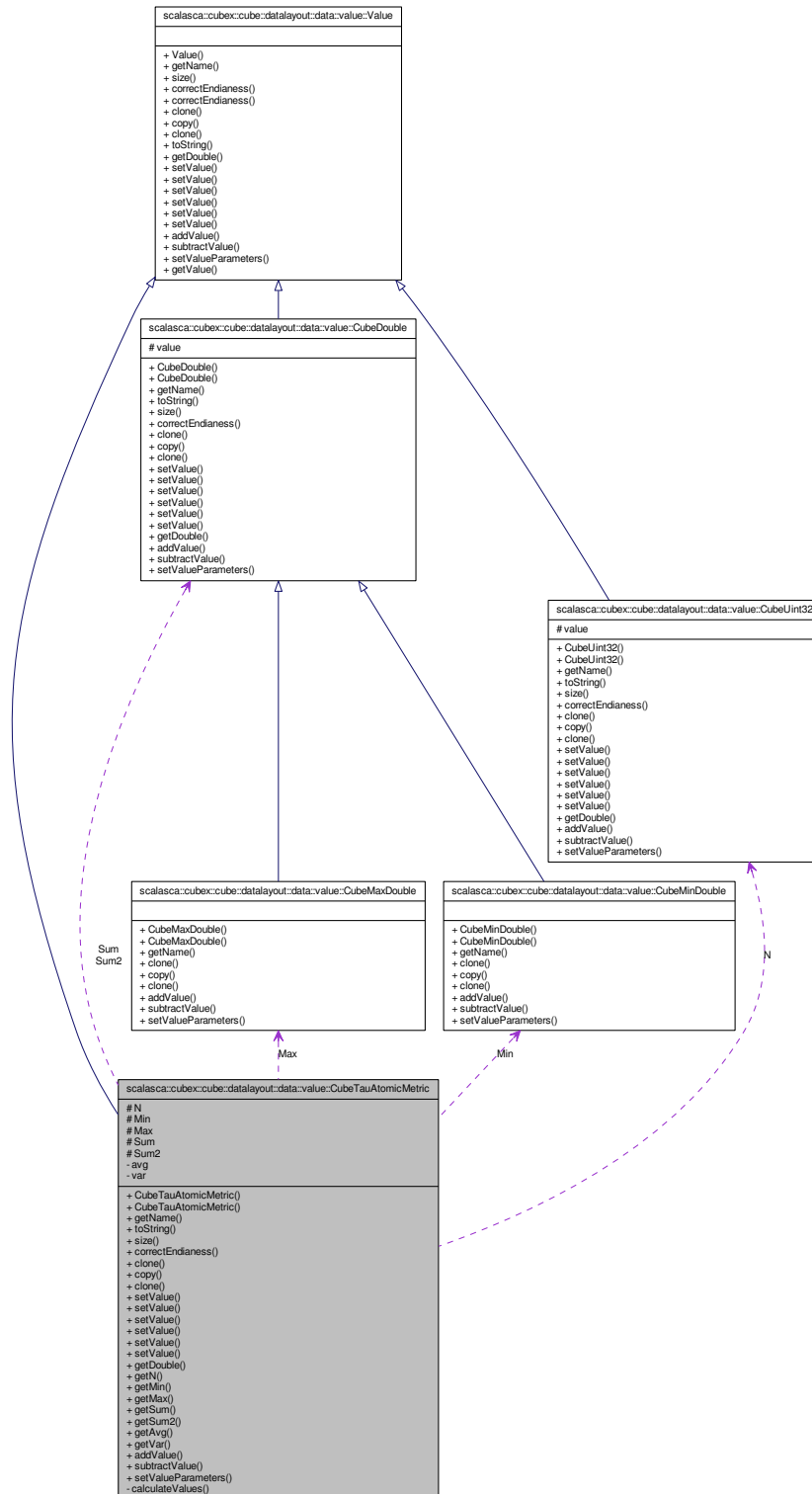
- src/jcuber/src/cubexlayout/CubeTarLayout.java

6.30 scalasca::cubex::cube::datalayout::data::value::CubeTauAtomicMetric Class Reference

Inheritance diagram for scalasca::cubex::cube::datalayout::data::value::CubeTauAtomicMetric:



Collaboration diagram for scalasca::cubex::cube::datalayout::data::value::CubeTauAtomicMetric:



Public Member Functions

- **CubeTauAtomicMetric** (int _n, double _min, double _max, double _sum, double _sum2)
- String **getName** ()
- String **toString** ()
 - > makes copy of itself with value coming from *DataStream* as row of bytes
- int **size** ()
- void **correctEndianess** (Endianess _end, DataInputStream in, DataOutputStream out) throws IOException
- [Value](#) **clone** ()
- [Value](#) **copy** ()
 - > makes copy of itself with "0" value
- [Value](#) **clone** (DataInputStream in) throws IOException
 - > makes copy of itself with "same value"
- void **setValue** (String str)
- void **setValue** (byte v)
- void **setValue** (short v)
- void **setValue** (int v)
- void **setValue** (long v)
- void **setValue** (double v)
- double **getDouble** ()
- double **getN** ()
- double **getMin** ()
- double **getMax** ()
- double **getSum** ()
- double **getSum2** ()
- double **getAvg** ()
- double **getVar** ()
- void **addValue** ([Value](#) v)
- void **subtractValue** ([Value](#) v)
- void **setValueParameters** (Vector< Double > parameters) throws WrongNumberOfValueParametersException

Protected Attributes

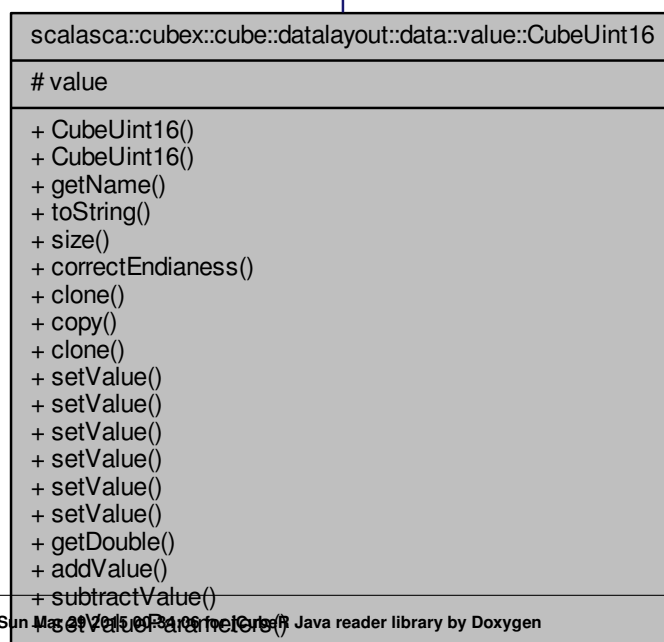
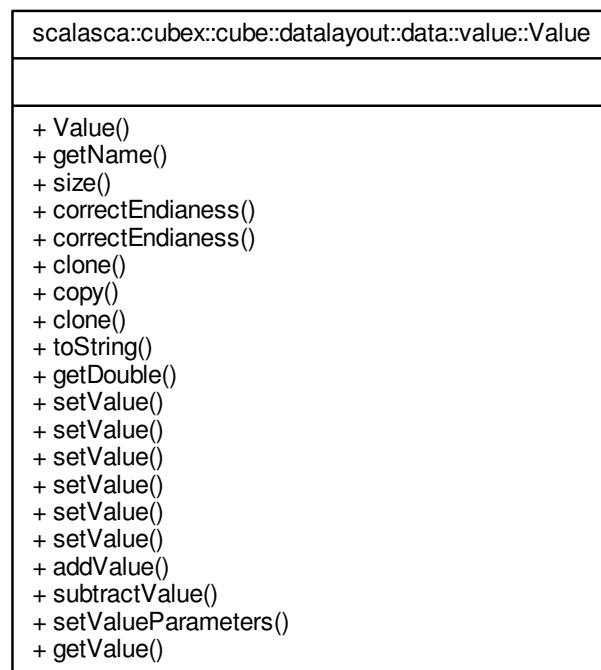
- [CubeUInt32](#) **N**
- [CubeMinDouble](#) **Min**
- [CubeMaxDouble](#) **Max**
- [CubeDouble](#) **Sum**
- [CubeDouble](#) **Sum2**

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

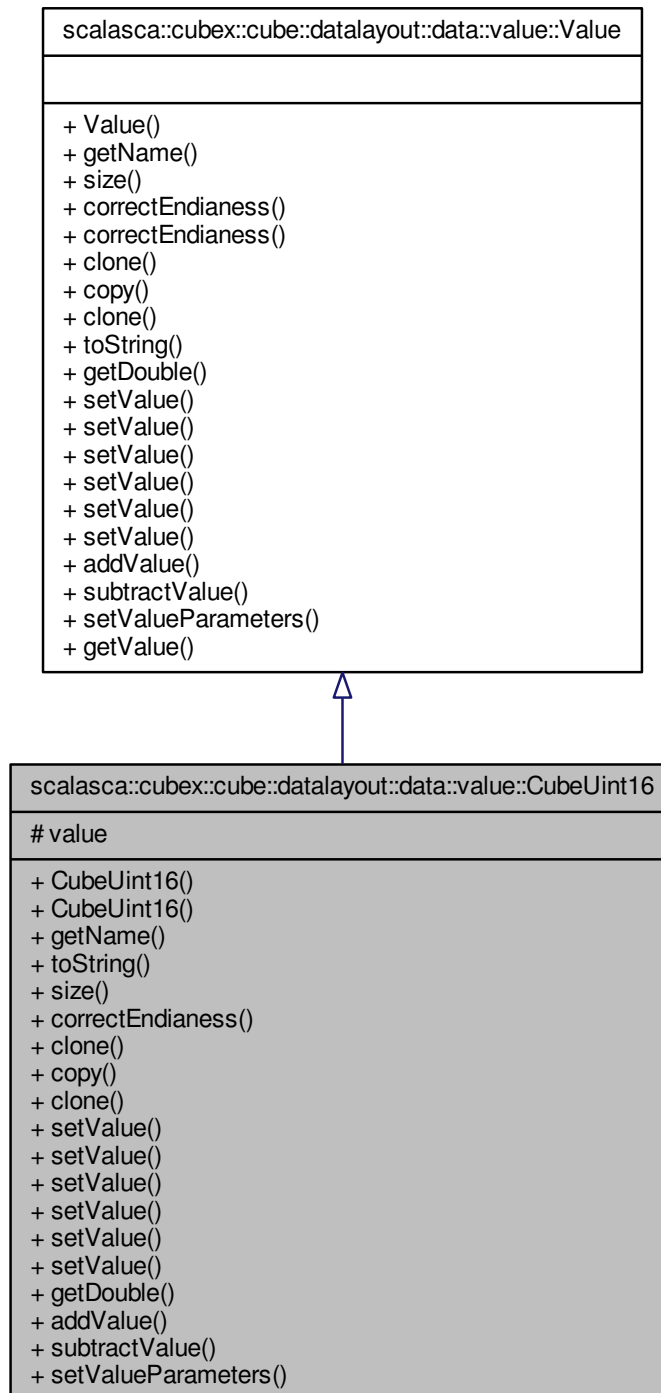
- src/jcuber/src/cube/datalayout/data/value/CubeTauAtomicMetric.java

6.31 scalasca::cubex::cube::datalayout::data::value::CubeUInt16 Class Reference

Inheritance diagram for scalasca::cubex::cube::datalayout::data::value::CubeUInt16:



Collaboration diagram for scalasca::cubex::cube::datalayout::data::value::CubeUInt16:



Public Member Functions

- **CubeUInt16** (short _v)
- String **getName** ()
- String **toString** ()
 - > makes copy of itself with value coming from DataStream as row of bytes
- int **size** ()
- void **correctEndianess** (Endianess _end, DataInputStream in, DataOutputStream out) throws IOException
- **Value clone** ()
- **Value copy** ()
 - > makes copy of itself with "0" value
- **Value clone** (DataInputStream in) throws IOException
 - > makes copy of itself with "same value"
- void **setValue** (String v)
- void **setValue** (byte v)
- void **setValue** (short v)
- void **setValue** (int v)
- void **setValue** (long v)
- void **setValue** (double v)
- double **getDouble** ()
- void **addValue** (**Value** v)
- void **subtractValue** (**Value** v)
- void **setValueParameters** (Vector< Double > parameters) throws WrongNumberOfValueParametersException

Protected Attributes

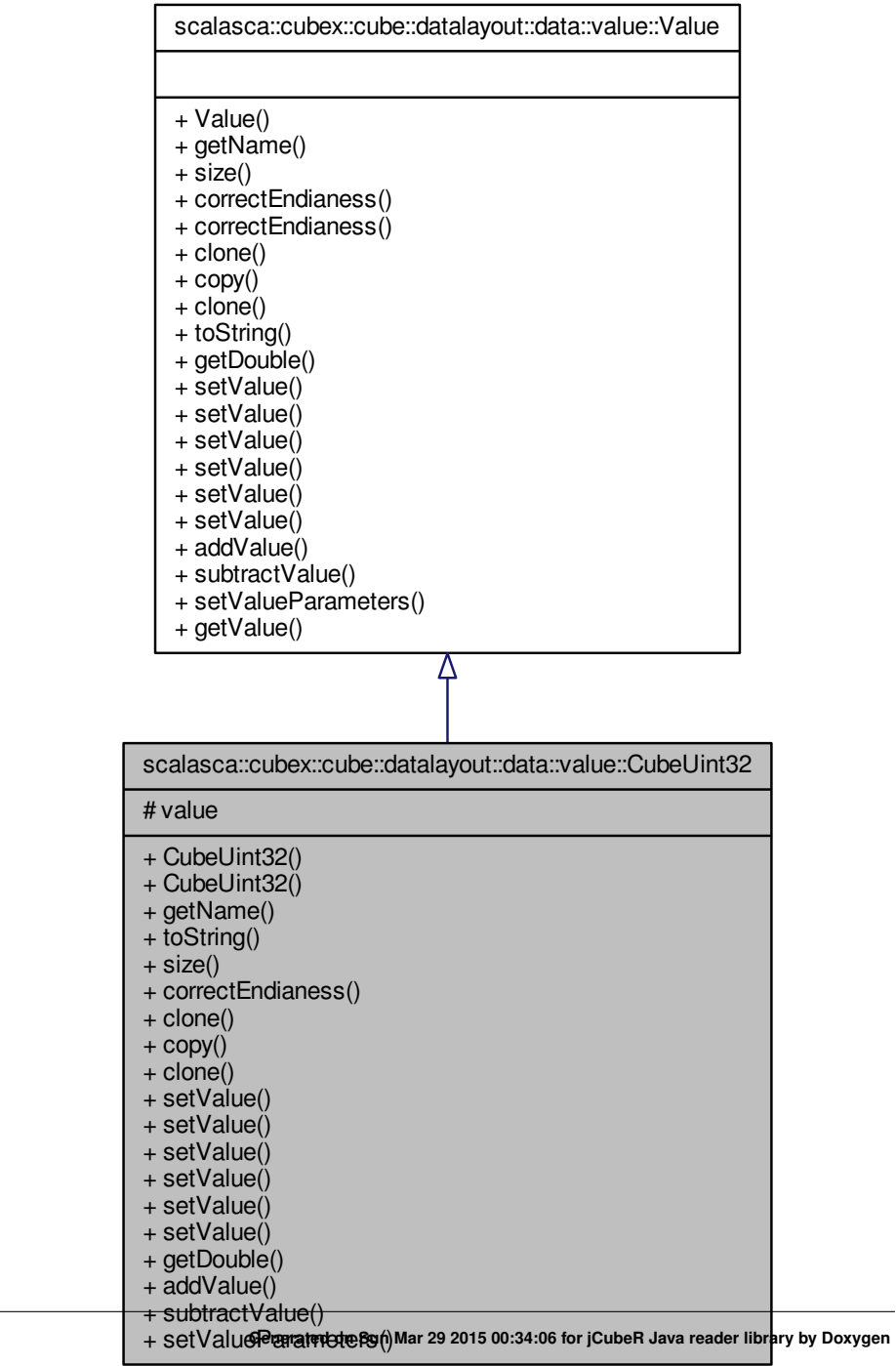
- int **value**

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

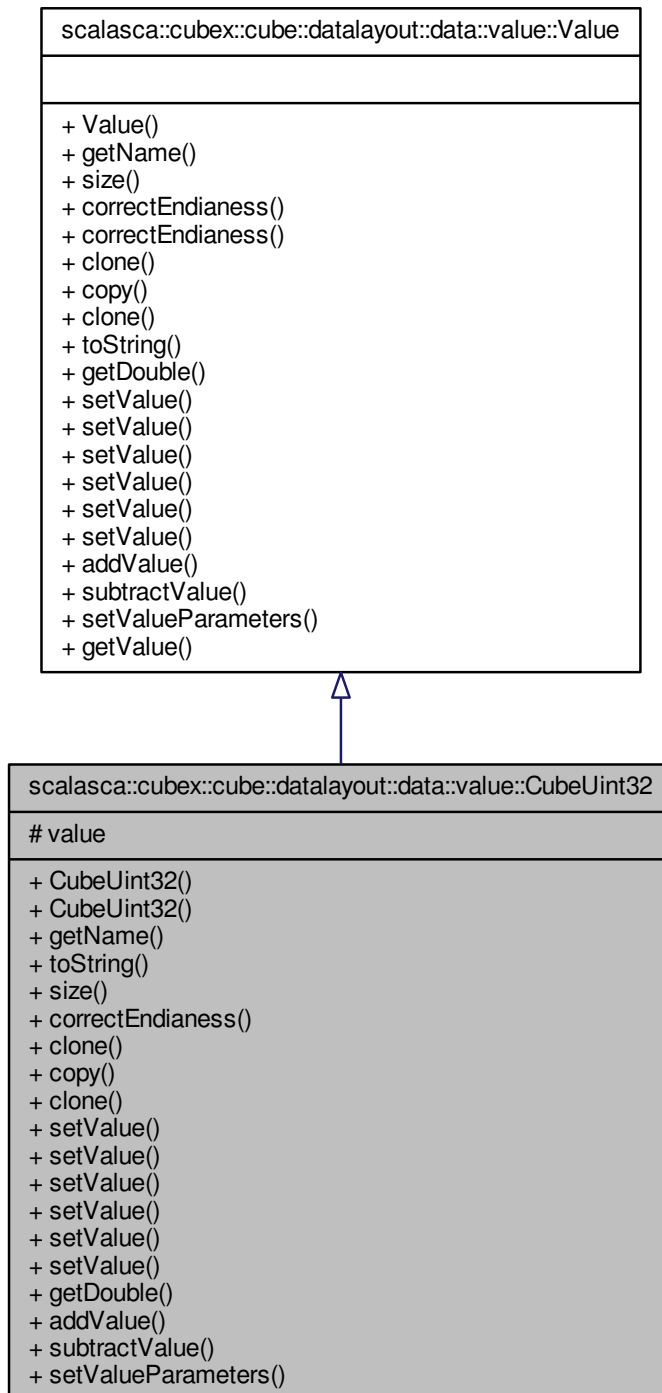
- src/jcuber/src/cube/datalayout/data/value/CubeUInt16.java

6.32 scalasca::cubex::cube::datalayout::data::value::CubeUInt32 Class Reference

Inheritance diagram for scalasca::cubex::cube::datalayout::data::value::CubeUInt32:



Collaboration diagram for scalasca::cubex::cube::datalayout::data::value::CubeUInt32:



Public Member Functions

- **CubeUInt32** (int _v)
- String **getName** ()
- String **toString** ()
 - > makes copy of itself with value coming from *DataStream* as row of bytes
- int **size** ()
- void **correctEndianess** (Endianess _end, *DataInputStream* in, *DataOutputStream* out) throws *IOException*
- **Value clone** ()
- **Value copy** ()
 - > makes copy of itself with "0" value
- **Value clone** (*DataInputStream* in) throws *IOException*
 - > makes copy of itself with "same value"
- void **setValue** (String v)
- void **setValue** (byte v)
- void **setValue** (short v)
- void **setValue** (int v)
- void **setValue** (long v)
- void **setValue** (double v)
- double **getDouble** ()
- void **addValue** (**Value** v)
- void **subtractValue** (**Value** v)
- void **setValueParameters** (Vector< Double > parameters) throws *WrongNumberOfValueParametersException*

Protected Attributes

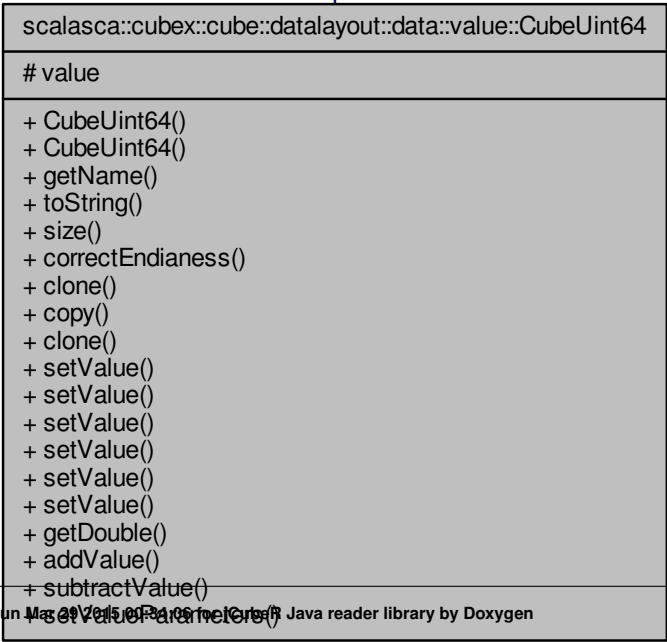
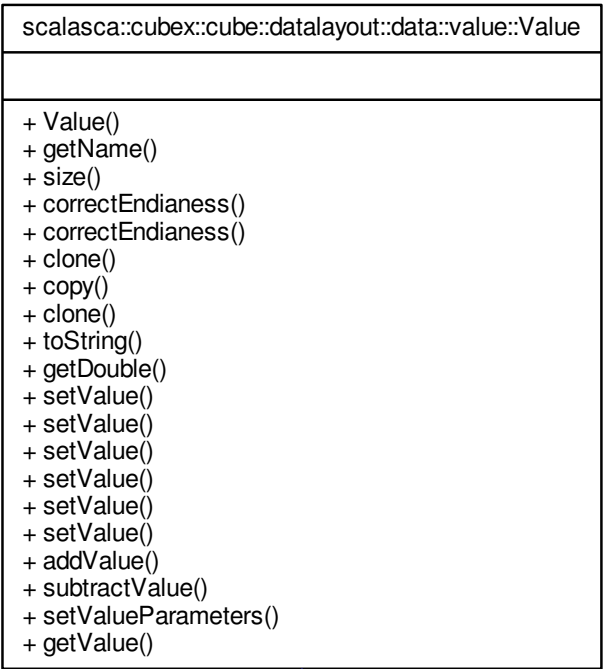
- long **value**

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

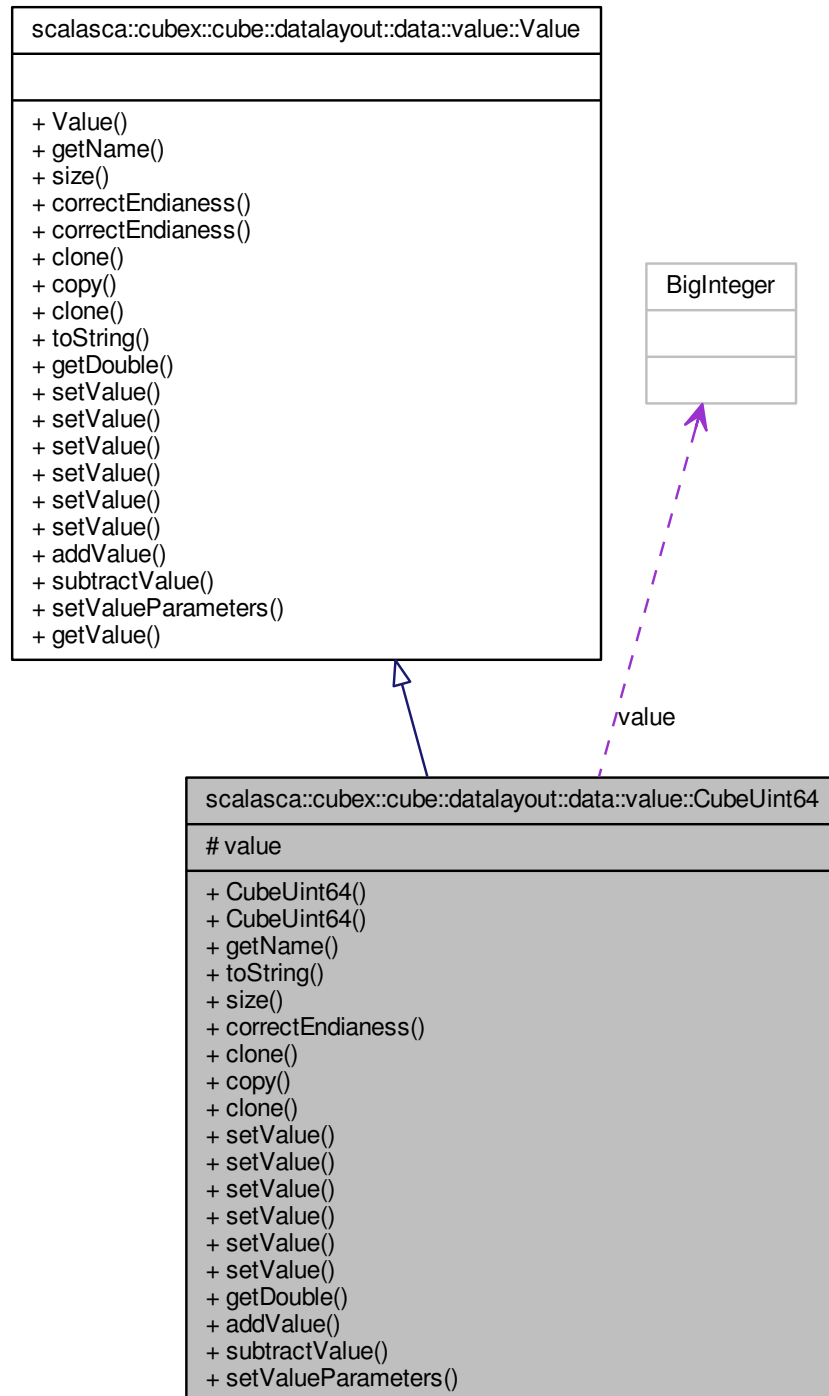
- `src/jcuber/src/cube/datalayout/data/value/CubeUInt32.java`

6.33 scalasca::cubex::cube::datalayout::data::value::CubeUInt64 Class Reference

Inheritance diagram for scalasca::cubex::cube::datalayout::data::value::CubeUInt64:



Collaboration diagram for `scalasca::cubex::cube::datalayout::data::value::CubeUInt64`:



Public Member Functions

- **CubeUInt64** (long _v)
- String **getName** ()
- String **toString** ()
 - > makes copy of itself with value coming from DataStream as row of bytes
- int **size** ()
- void **correctEndianess** (Endianess _end, DataInputStream in, DataOutputStream out) throws IOException
- **Value clone** ()
- **Value copy** ()
 - > makes copy of itself with "0" value
- **Value clone** (DataInputStream in) throws IOException
 - > makes copy of itself with "same value"
- void **setValue** (String v)
- void **setValue** (byte v)
- void **setValue** (short v)
- void **setValue** (int v)
- void **setValue** (long v)
- void **setValue** (double v)
- double **getDouble** ()
- void **addValue** (**Value** v)
- void **subtractValue** (**Value** v)
- void **setValueParameters** (Vector< Double > parameters) throws WrongNumberOfValueParametersException

Protected Attributes

- BigInteger **value**

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

- src/jcuber/src/cube/datalayout/data/value/CubeUInt64.java

6.34 scalasca::cubex::cube::datalayout::data::value::CubeUInt8 Class Reference

Inheritance diagram for scalasca::cubex::cube::datalayout::data::value::CubeUInt8:

scalasca::cubex::cube::datalayout::data::value::Value

+ Value()
+ getName()
+ size()
+ correctEndianess()
+ correctEndianess()
+ clone()
+ copy()
+ clone()
+ toString()
+ getDouble()
+ setValue()
+ setValue()
+ setValue()
+ setValue()
+ setValue()
+ setValue()
+ addValue()
+ subtractValue()
+ setValueParameters()
+ getValue()



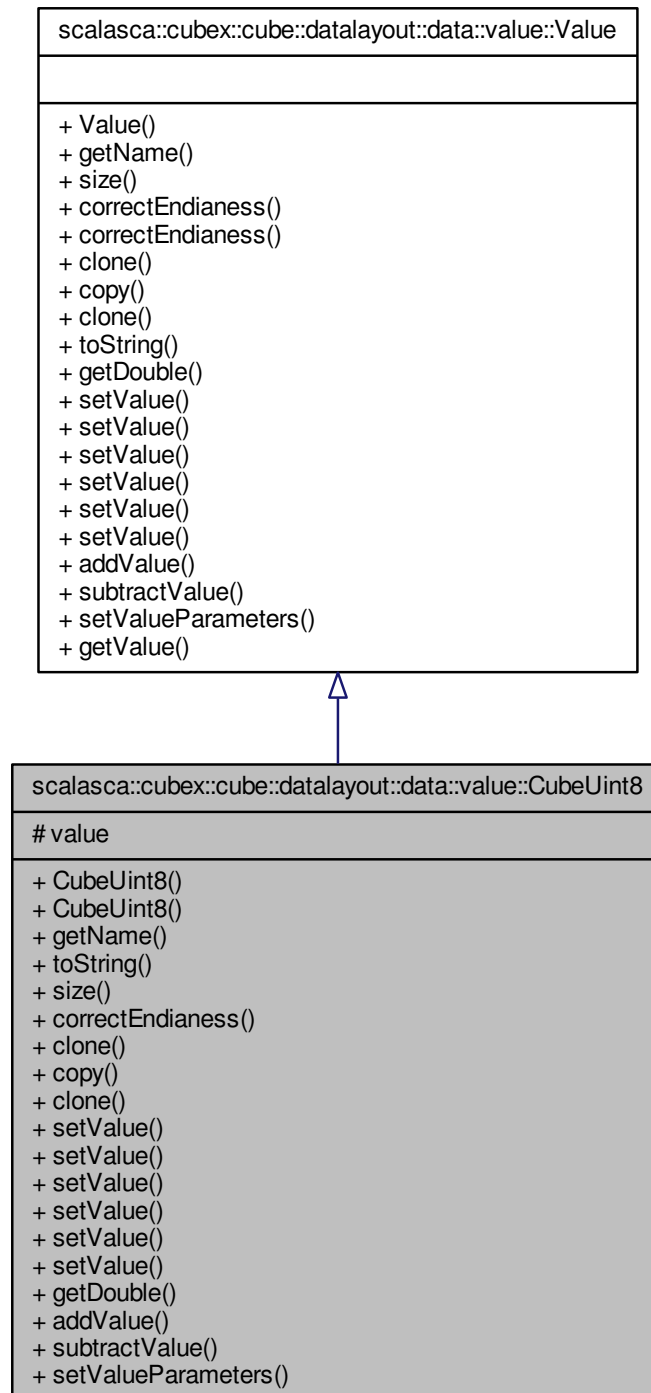
scalasca::cubex::cube::datalayout::data::value::CubeUInt8

value

+ CubeUInt8()
+ CubeUInt8()
+ getName()
+ toString()
+ size()
+ correctEndianess()
+ clone()
+ copy()
+ clone()
+ setValue()
+ setValue()
+ setValue()
+ setValue()
+ setValue()
+ setValue()
+ getDouble()
+ addValue()
+ subtractValue()
+ setValueParameters()
+ setValueParameters()

6.34 scalasca::cubex::cube::datalayout::data::value::CubeUInt8 Class Reference

Collaboration diagram for scalasca::cubex::cube::datalayout::data::value::CubeUInt8:



Public Member Functions

- **CubeUInt8** (byte _v)
- String **getName** ()
- String **toString** ()
 - > *makes copy of itself with value coming from DataStream as row of bytes*
- int **size** ()
- void **correctEndianess** (Endianess _end, DataInputStream in, DataOutputStream out) throws IOException
- **Value clone** ()
- **Value copy** ()
 - > *makes copy of itself with "0" value*
- **Value clone** (DataInputStream in) throws IOException
 - > *makes copy of itself with "same value"*
- void **setValue** (String v)
- void **setValue** (byte v)
- void **setValue** (short v)
- void **setValue** (int v)
- void **setValue** (long v)
- void **setValue** (double v)
- double **getDouble** ()
- void **addValue** (**Value** v)
- void **subtractValue** (**Value** v)
- void **setValueParameters** (Vector< Double > parameters) throws WrongNumberOfValueParametersException

Protected Attributes

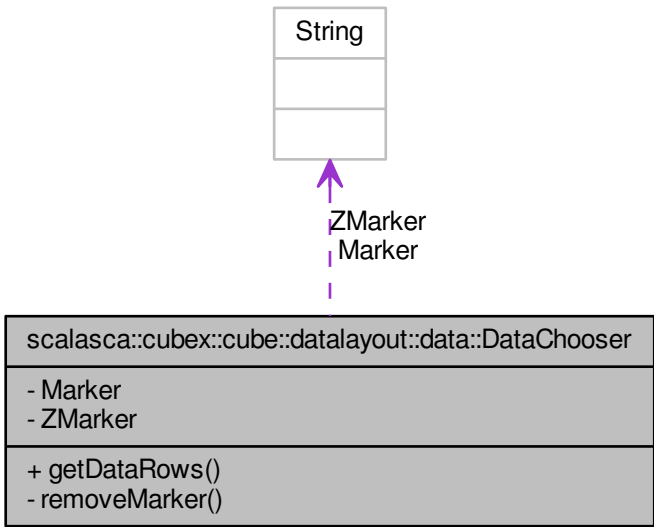
- short **value**

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

- src/jcuber/src/cube/datalayout/data/value/CubeUInt8.java

6.35 scalasca::cubex::cube::datalayout::data::DataChooser Class Reference

Collaboration diagram for scalasca::cubex::cube::datalayout::data::DataChooser:



Static Public Member Functions

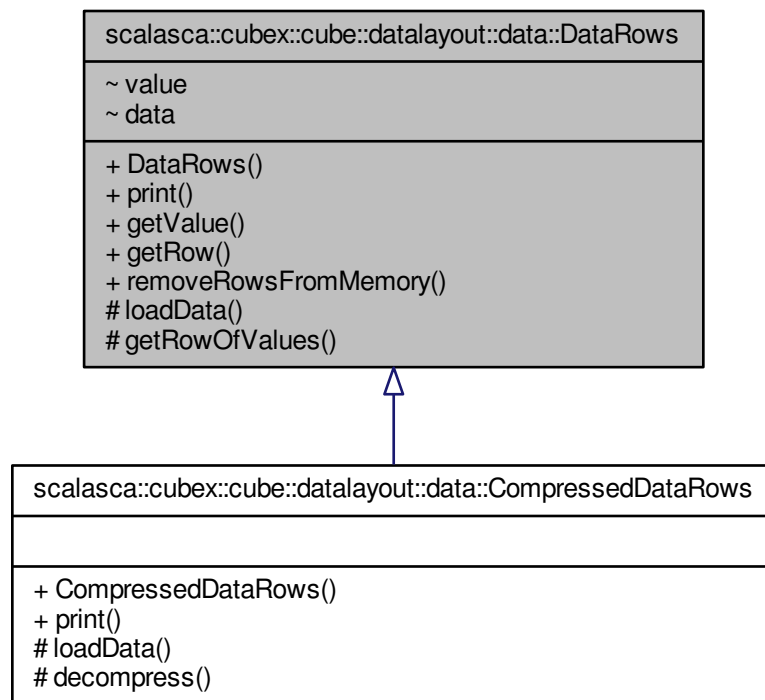
- static [DataRows](#) **getDataRows** (byte[] `_metric_data`, Value `_metric_value`, Endianness `_endianess`) throws `BadCubeReportLayoutException`

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

- `src/jcuber/src/cube/datalayout/data/DataChooser.java`

6.36 scalasca::cubex::cube::datalayout::data::DataRows Class Reference

Inheritance diagram for scalasca::cubex::cube::datalayout::data::DataRows:



Public Member Functions

- **DataRows** (byte[] _data, Value _value, Endianess _endianess) throws `BadDataException`
- void **print** ()
- Value **getValue** ()
- Value[] **getRow** (int position, int number)
- void **removeRowsFromMemory** ()

6.37 scalasca::cubex::cube::datalayout::index::DenseIndex Class Reference 115

Protected Member Functions

- void **loadData** (byte[] _data, Value _value, Endianness _endianess) throws Bad-DataException
- Value[] **getRowOfValues** (byte[] _data) throws IOException

Package Attributes

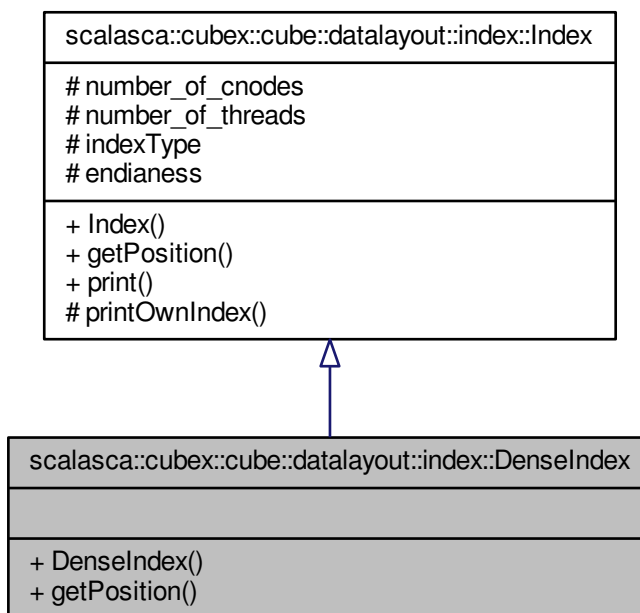
- Value **value**
- Value[] **data** = null

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

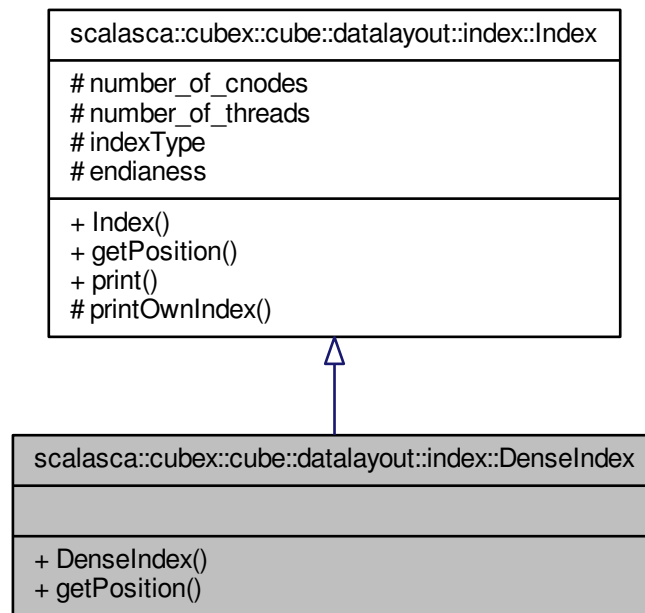
- src/jcuber/src/cube/datalayout/data/DataRows.java

6.37 scalasca::cubex::cube::datalayout::index::DenseIndex Class Reference

Inheritance diagram for scalasca::cubex::cube::datalayout::index::DenseIndex:



Collaboration diagram for `scalasca::cubex::cube::datalayout::index::DenseIndex`:



Public Member Functions

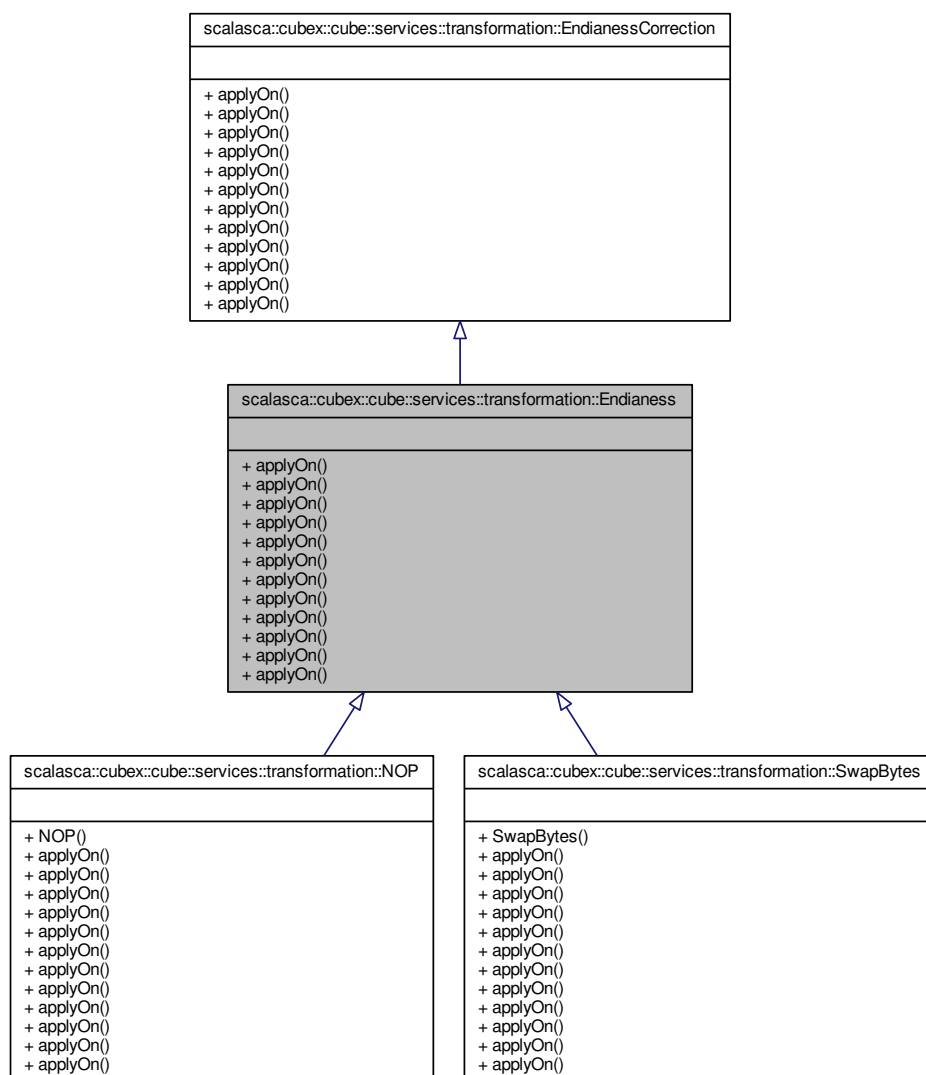
- **DenseIndex** (int number_of_cnodes, int number_of_threads, Endianness _end)
- int **getPosition** (int cid, int tid) throws `IDOutOfBoundsException`, `MissingRowException`

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

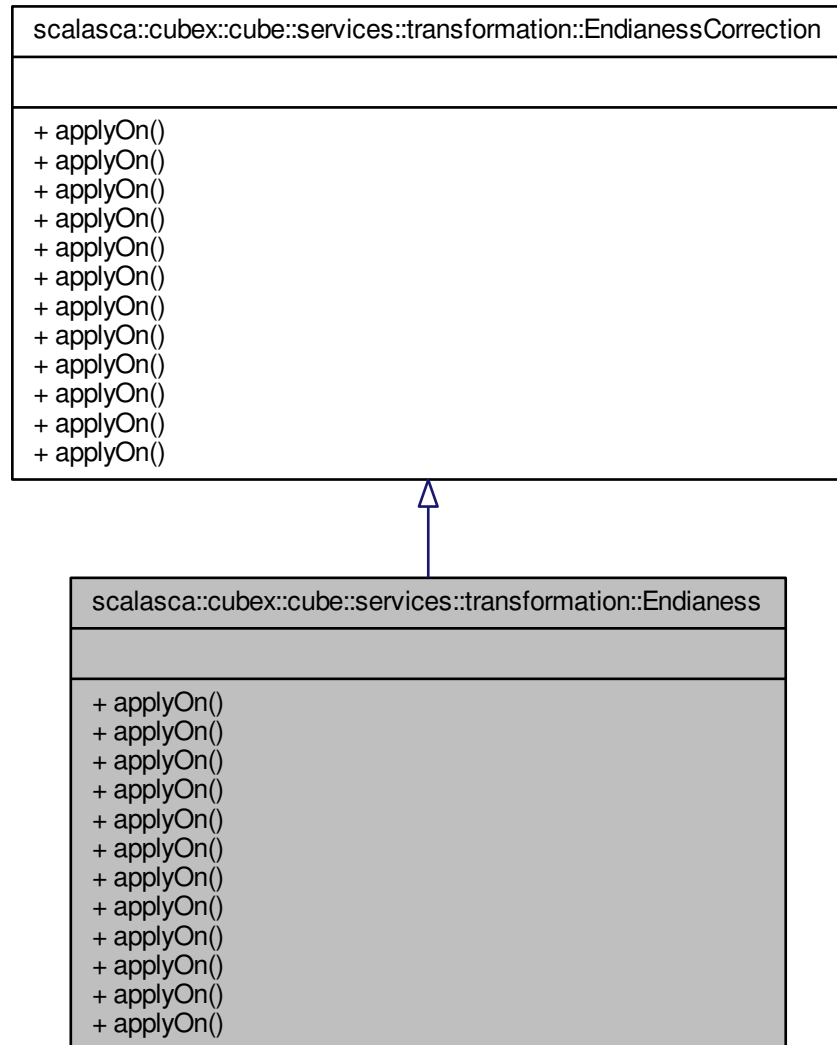
- `src/jcuber/src/cube/datalayout/index/DenseIndex.java`

6.38 scalasca::cubex::cube::services::transformation::Endianess Class Reference

Inheritance diagram for scalasca::cubex::cube::services::transformation::Endianess:



Collaboration diagram for scalasca::cubex::cube::services::transformation::Endianess:



Public Member Functions

- abstract char **applyOn** (char a)
- abstract byte **applyOn** (byte a)
- abstract short **applyOn** (short a)

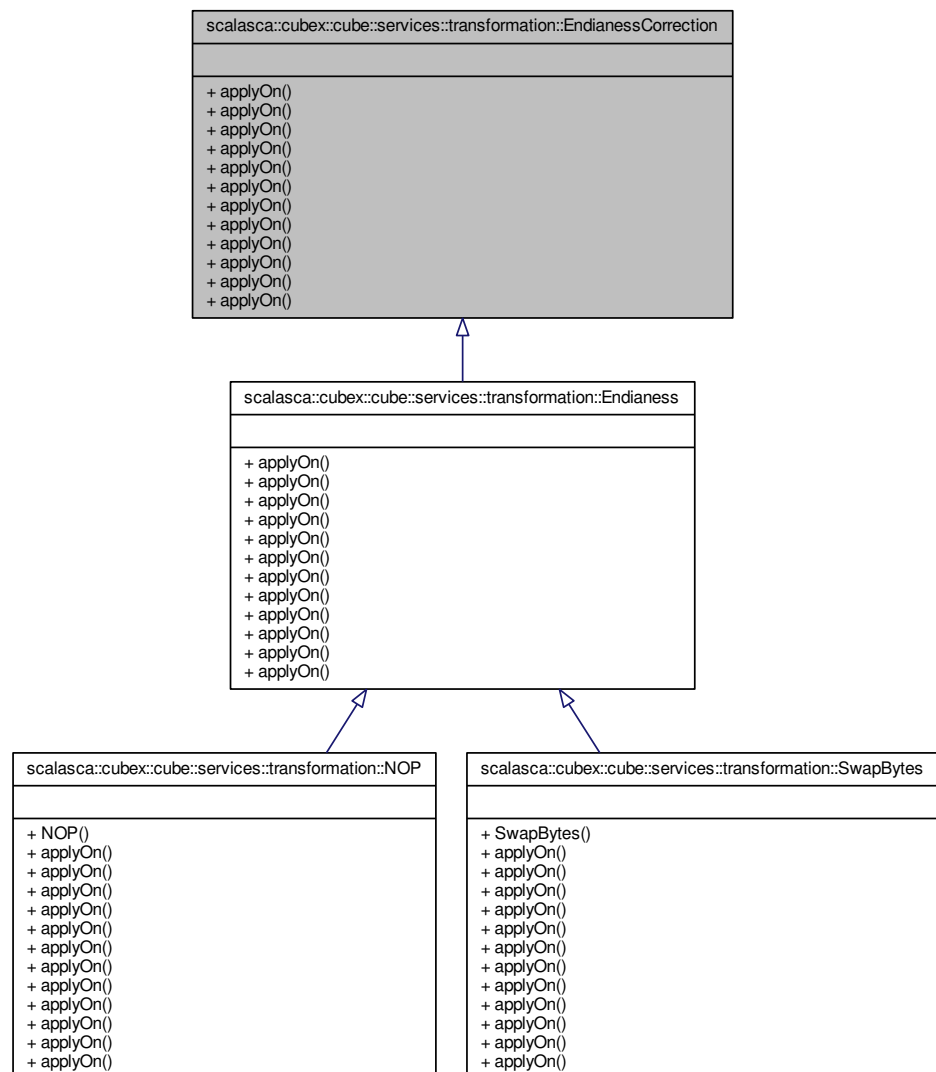
- abstract int **applyOn** (int a)
- abstract long **applyOn** (long a)
- abstract double **applyOn** (double a)
- abstract Byte **applyOn** (Byte a)
- abstract Short **applyOn** (Short a)
- abstract Integer **applyOn** (Integer a)
- abstract Long **applyOn** (Long a)
- abstract Double **applyOn** (Double a)
- abstract byte[] **applyOn** (byte[] a)

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

- src/jcuber/src/cube/services/transformation/Endianess.java

6.39 scalasca::cubex::cube::services::transformation::EndianessCorrection Interface Reference

Inheritance diagram for scalasca::cubex::cube::services::transformation::EndianessCorrection:



Public Member Functions

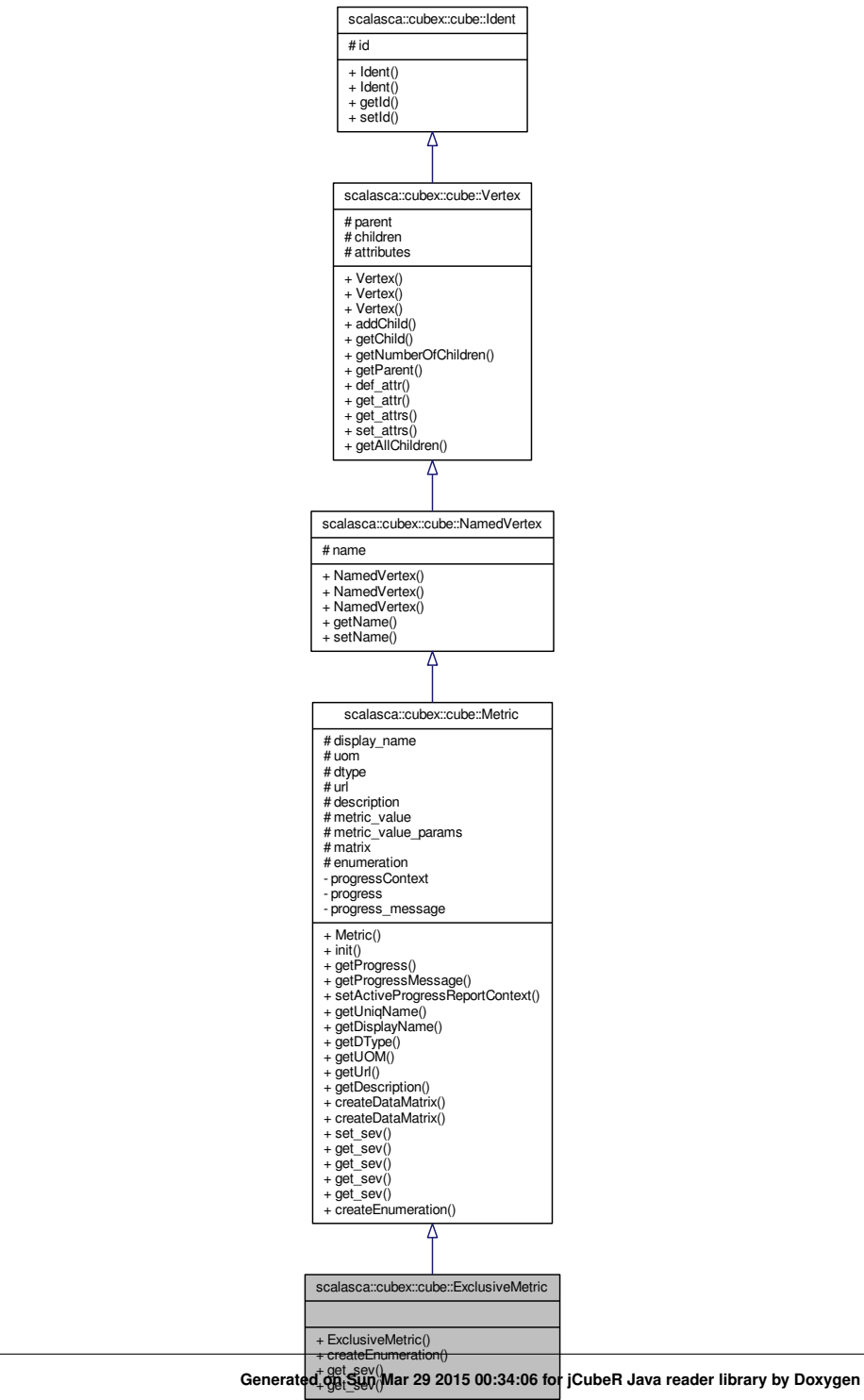
- char **applyOn** (char a)
- byte **applyOn** (byte a)
- short **applyOn** (short a)
- int **applyOn** (int a)
- long **applyOn** (long a)
- double **applyOn** (double a)
- Byte **applyOn** (Byte a)
- Short **applyOn** (Short a)
- Integer **applyOn** (Integer a)
- Long **applyOn** (Long a)
- Double **applyOn** (Double a)
- byte[] **applyOn** (byte[] a)

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

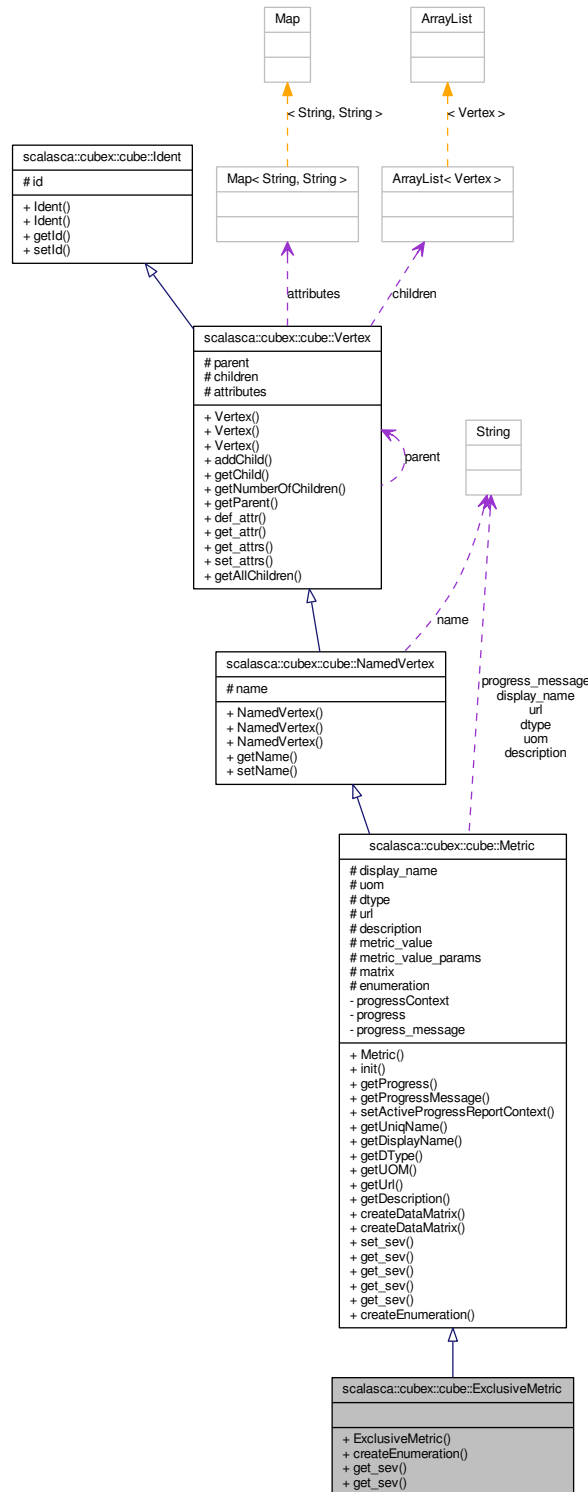
- src/jcuber/src/cube/services/transformation/EndianessCorrection.java

6.40 scalasca::cubex::cube::ExclusiveMetric Class Reference

Inheritance diagram for scalasca::cubex::cube::ExclusiveMetric:



Collaboration diagram for scalasca::cubex::cube::ExclusiveMetric:



- **ExclusiveMetric** (int `_id`, [Metric](#) `_parent`)
- void **createEnumeration** ([ArrayList](#)< [scalasca.cubex.cube.CNode](#) > `root_cnodes`)
- Value **get_sev** ([CNode](#) `cnode`, [CubeCalculationFlavour](#) `cf`, [Location](#) `loc`, [CubeCalculationFlavour](#) `lf`) throws [NotEnumeratedCNodeException](#)
- Value **get_sev** ([CNode](#) `cnode`, [CubeCalculationFlavour](#) `cf`) throws [NotEnumeratedCNodeException](#)

- `src/jcuber/src/cube/ExclusiveMetric.java`

Inheritance diagram for scalasca::cubex::cube::Ident:



6.42 scalasca::cubex::cube::errors::IDOutOfBoundsException Class Reference 125

Public Member Functions

- **Ident** (int _id)
- int **getId** ()
- void **setId** (int _id)

Protected Attributes

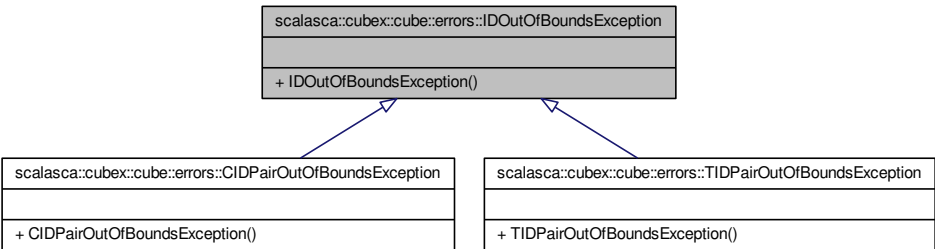
- int **id**

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

- src/jcuber/src/cube/Ident.java

6.42 scalasca::cubex::cube::errors::IDOutOfBoundsException Class Reference

Inheritance diagram for scalasca::cubex::cube::errors::IDOutOfBoundsException:



Public Member Functions

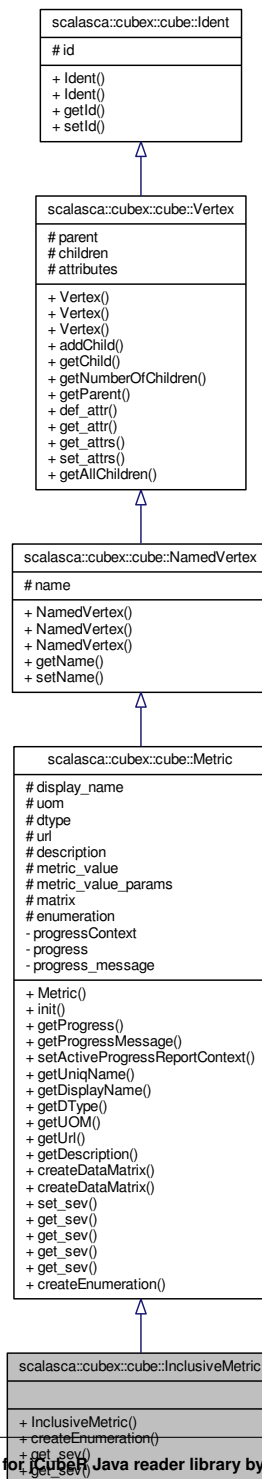
- **IDOutOfBoundsException** (int tid, int ntid, String title)

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

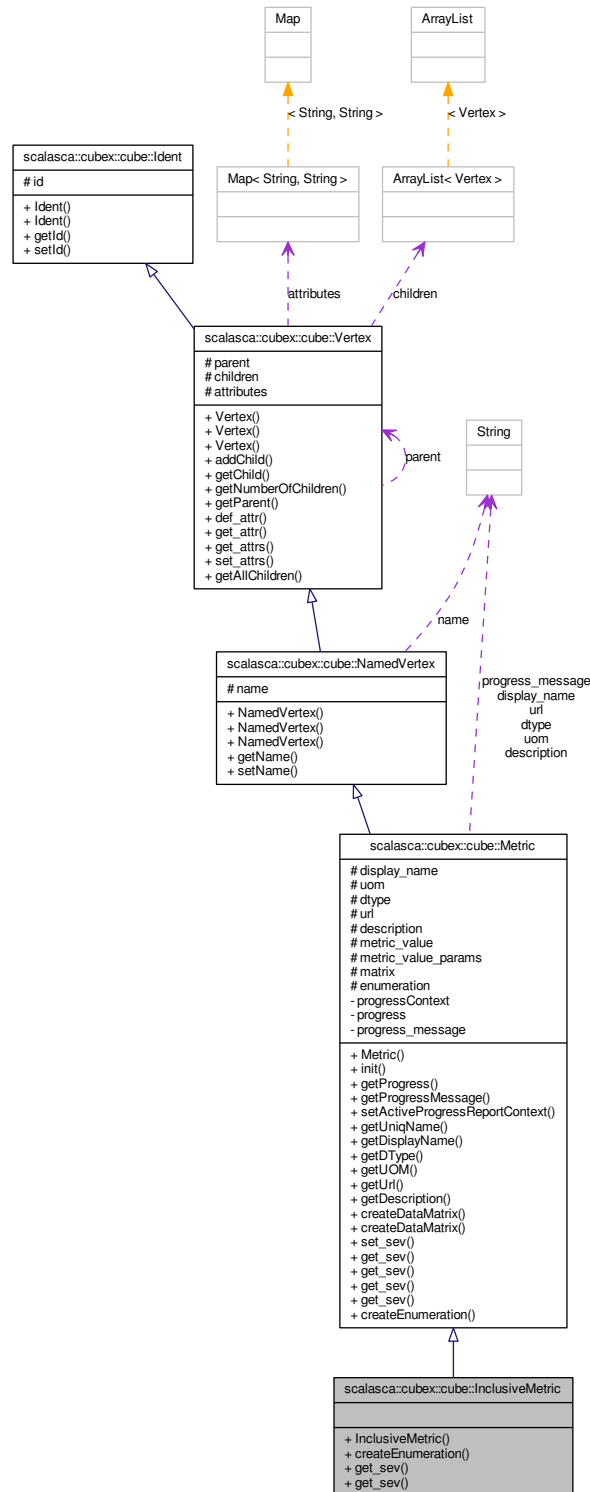
- src/jcuber/src/cube/errors/IDOutOfBoundsException.java

6.43 scalasca::cubex::cube::InclusiveMetric Class Reference

Inheritance diagram for scalasca::cubex::cube::InclusiveMetric:



Collaboration diagram for `scalasca::cubex::cube::InclusiveMetric`:



Public Member Functions

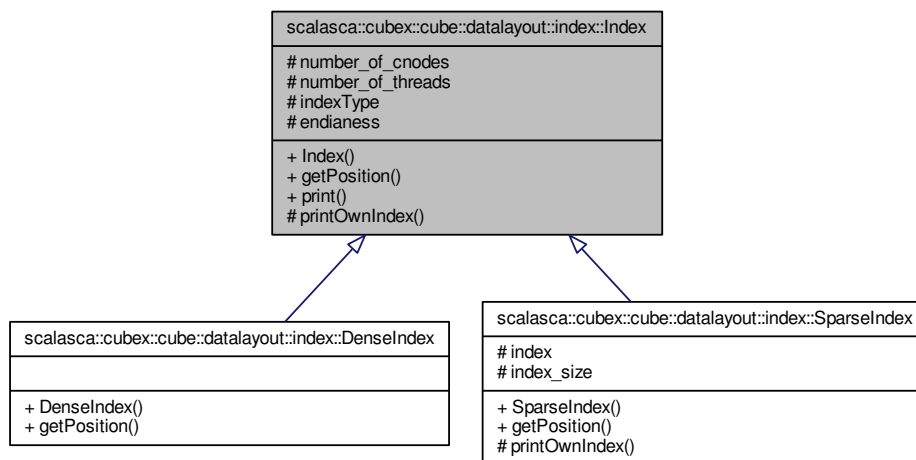
- **InclusiveMetric** (int _id, [Metric](#) _parent)
- void **createEnumeration** (ArrayList< [scalasca.cubex.cube.Cnode](#) > root_cnodes)
- Value **get_sev** ([Cnode](#) cnode, CubeCalculationFlavour cf, [Location](#) loc, CubeCalculationFlavour lf) throws NotEnumeratedCnodeException
- Value **get_sev** ([Cnode](#) cnode, CubeCalculationFlavour cf) throws NotEnumeratedCnodeException

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

- src/jcuber/src/cube/InclusiveMetric.java

6.44 scalasca::cubex::cube::datalayout::index::Index Class Reference

Inheritance diagram for scalasca::cubex::cube::datalayout::index::Index:



Public Member Functions

- **Index** (int ncid, int ntid, Endianness _end)
- abstract int **getPosition** (int cid, int tid) throws IDOutOfBoundsExcepion, MissingRowException
- void **print** ()

Protected Member Functions

- void **printOwnIndex** ()

Protected Attributes

- int **number_of_cnodes**
- int **number_of_threads**
- IndexType **indexType**
- Endianess **endianess**

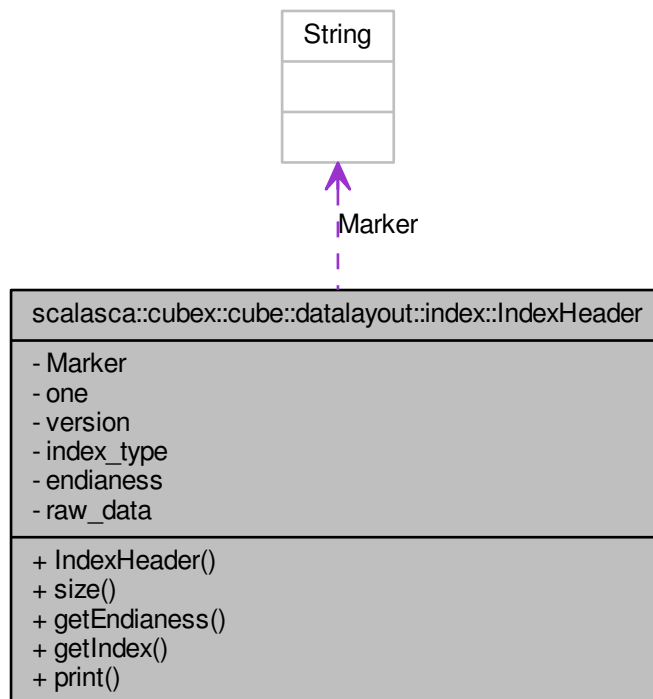
The documentation for this class was generated from the following file:

- `src/jcuber/src/cube/datalayout/index/Index.java`

6.45 scalasca::cubex::cube::datalayout::index::IndexHeader Class Reference 131

6.45 scalasca::cubex::cube::datalayout::index::IndexHeader Class Reference

Collaboration diagram for scalasca::cubex::cube::datalayout::index::IndexHeader:



Public Member Functions

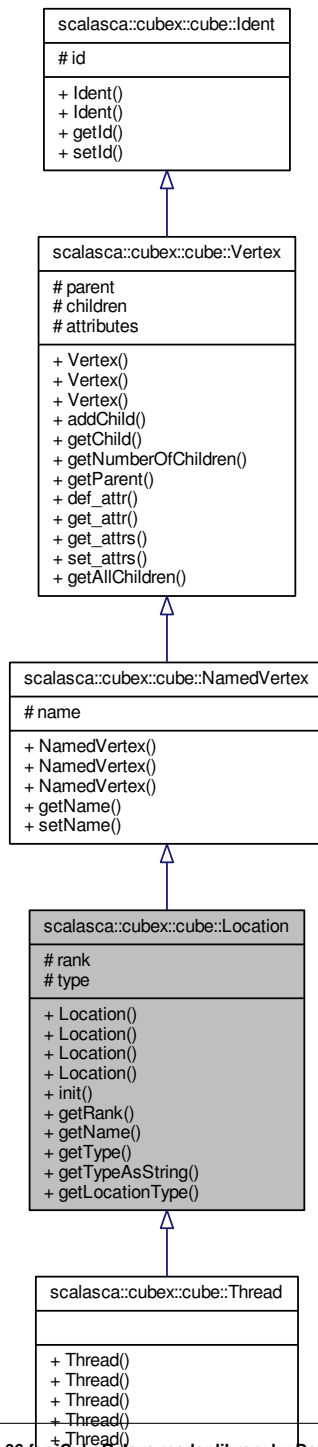
- **IndexHeader** (byte[] bytes) throws `BadCubeReportLayoutException`
- int **size** ()
- Endianness **getEndianness** ()
- [Index](#) **getIndex** (int number_of_cnodes, int number_of_threads) throws `BadCubeReportLayoutException`
- void **print** ()

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

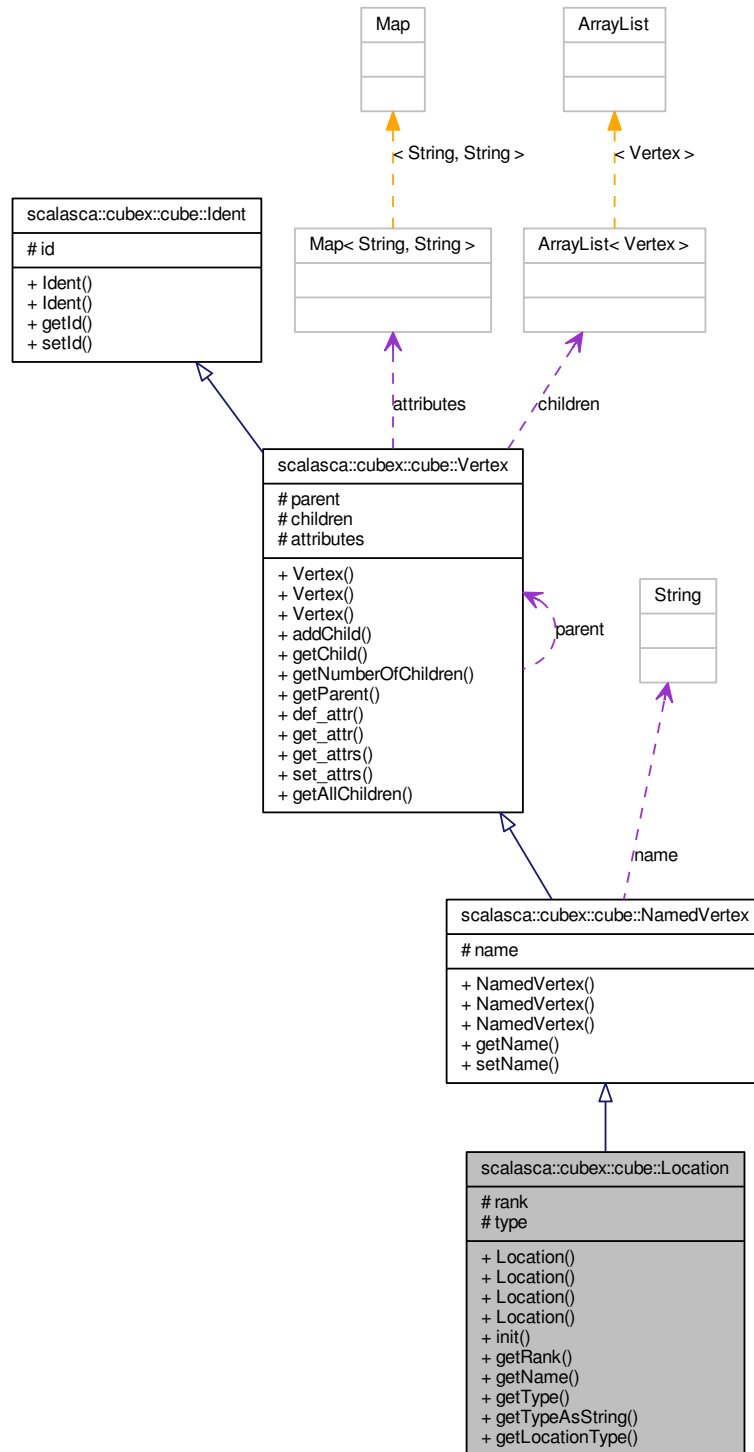
- `src/jcuber/src/cube/datalayout/index/IndexHeader.java`

6.46 scalasca::cubex::cube::Location Class Reference

Inheritance diagram for scalasca::cubex::cube::Location:



Collaboration diagram for `scalasca::cubex::cube::Location`:



Public Member Functions

- **Location** (int _id, [LocationGroup](#) _parent)
- **Location** (int _id, long _rank, LocationType _type, [LocationGroup](#) _parent)
- **Location** (int _id, long _rank, String _name, LocationType _type, [LocationGroup](#) _parent)
- void **init** (long _rank, String _name, LocationType _type)
- long **getRank** ()
- String **getName** ()
- LocationType **getType** ()
- String **getTypeAsString** ()

Static Public Member Functions

- static LocationType **getLocationType** (String _type) throws scalasca.cubex.cube.errors.BadSyntaxException

Protected Attributes

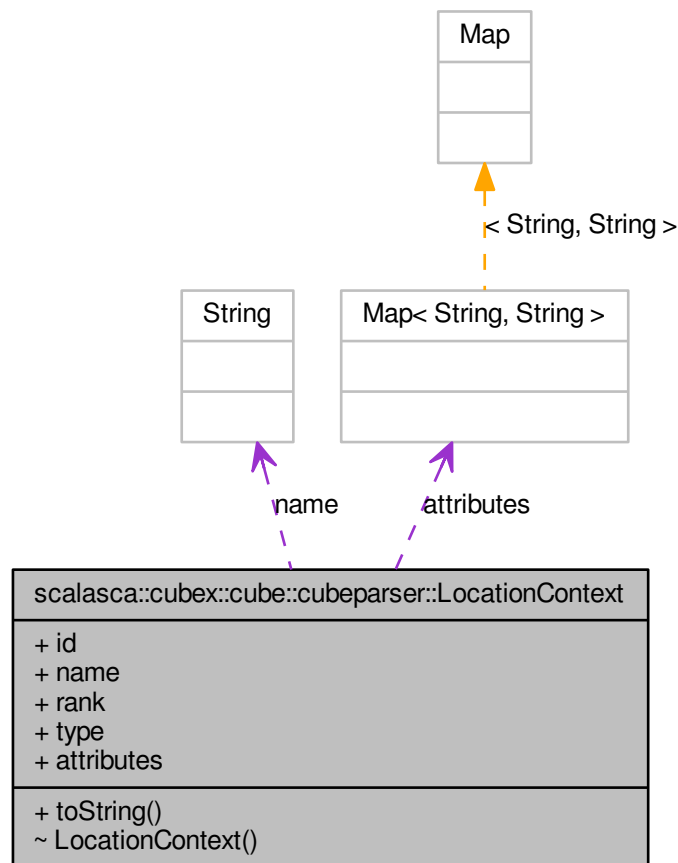
- long **rank** = -1
- LocationType **type** = LocationType.CPU_THREAD

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

- src/jcuber/src/cube/Location.java

6.47 scalasca::cubex::cube::cubeparser::LocationContext Class Reference

Collaboration diagram for scalasca::cubex::cube::cubeparser::LocationContext:



Public Member Functions

- String **toString** ()

Public Attributes

- int **id** = -1

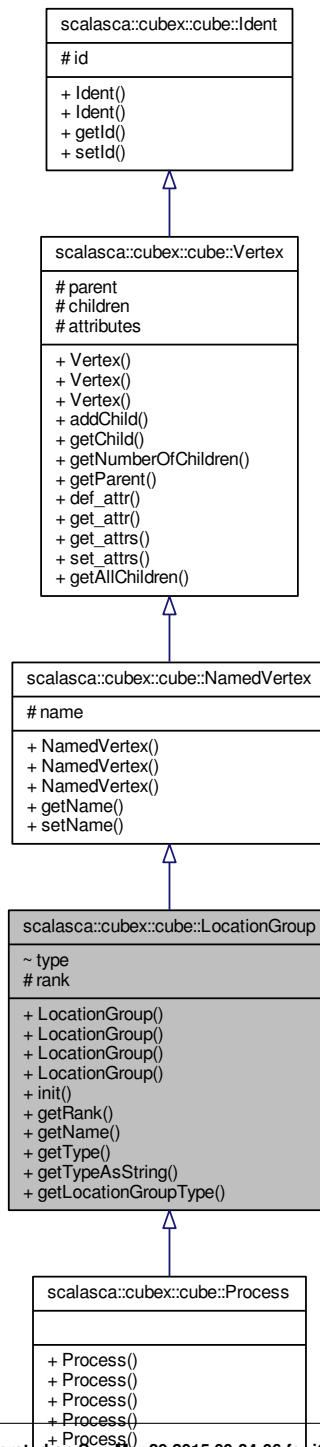
- String **name** = ""
- long **rank** = -1
- LocationType **type** = LocationType.CPU_THREAD
- Map< String, String > **attributes** = new HashMap<String, String> ()

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

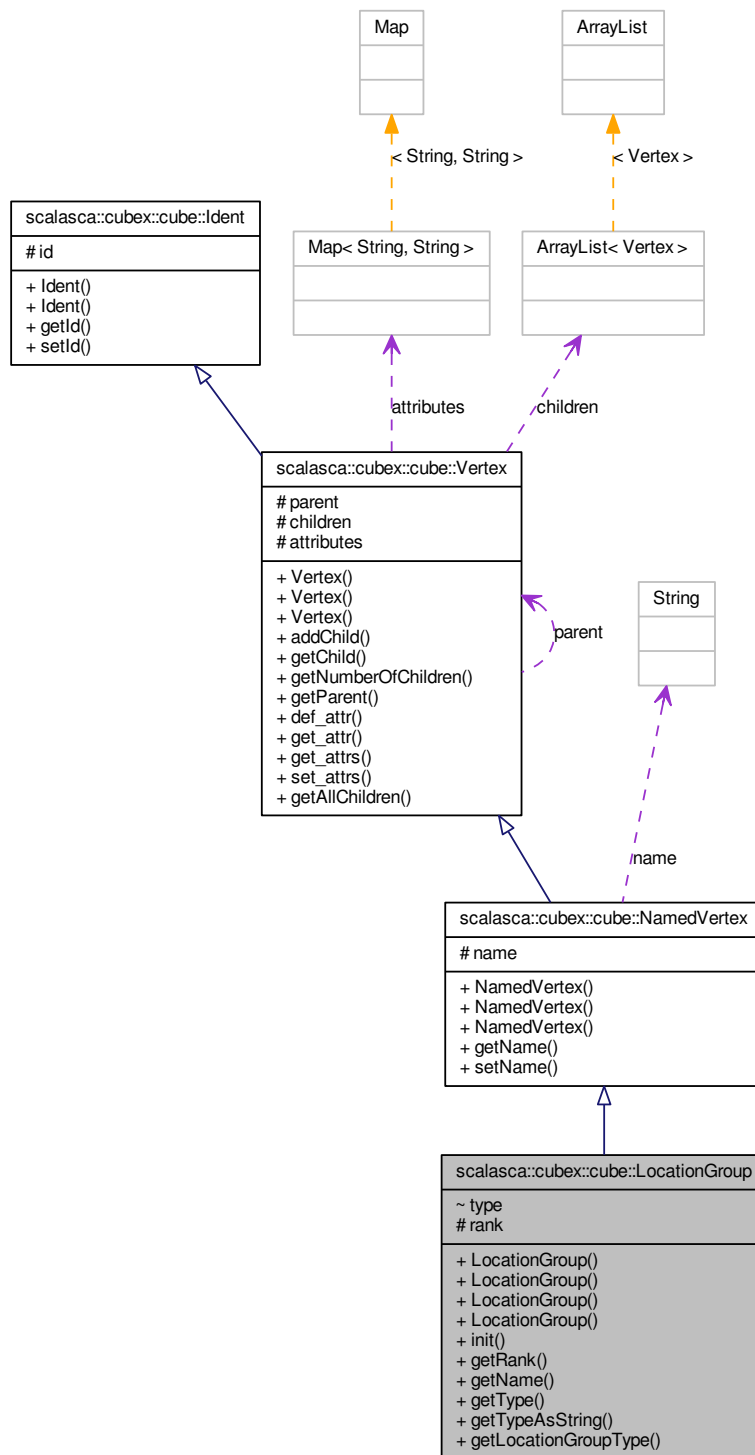
- src/jcuber/src/cube/cubeparser/LocationContext.java

6.48 scalasca::cubex::cube::LocationGroup Class Reference

Inheritance diagram for scalasca::cubex::cube::LocationGroup:



Collaboration diagram for scalasca::cubex::cube::LocationGroup:



Public Member Functions

- **LocationGroup** (int _id, [SystemTreeNode](#) _parent)
- **LocationGroup** (int _id, long _rank, LocationGroupType _type, [SystemTreeNode](#) _parent)
- **LocationGroup** (int _id, long _rank, String _name, LocationGroupType _type, [SystemTreeNode](#) _parent)
- void **init** (long _rank, String _name, LocationGroupType _type)
- long **getRank** ()
- String **getName** ()
- LocationGroupType **getType** ()
- String **getTypeAsString** ()

Static Public Member Functions

- static LocationGroupType **getLocationGroupType** (String _type) throws scalasca.cubex.cube.errors.BadS

Protected Attributes

- long **rank** = -1

Package Attributes

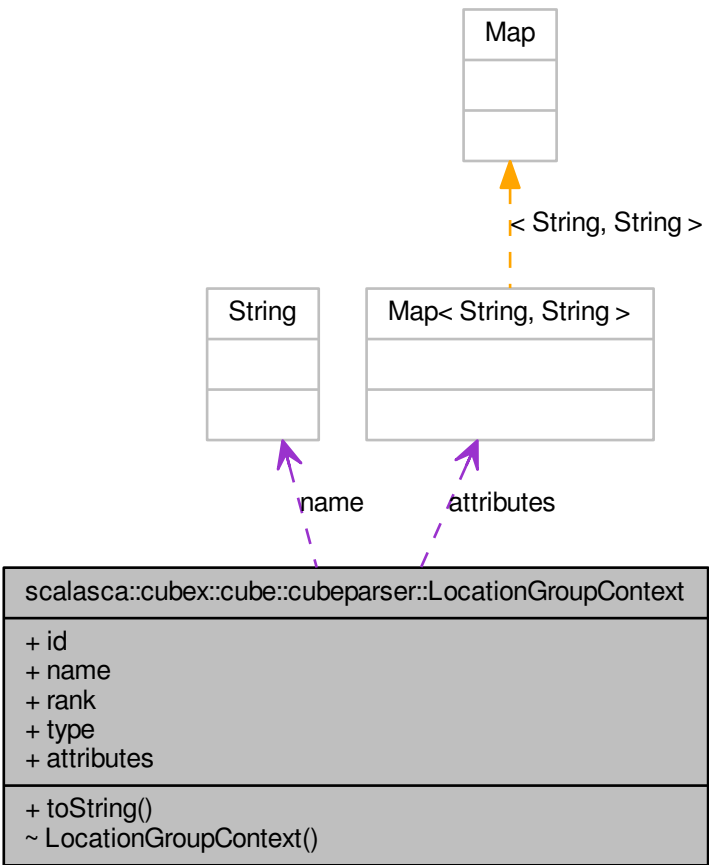
- LocationGroupType **type** = LocationGroupType.PROCESS

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

- src/jcuber/src/cube/LocationGroup.java

6.49 scalasca::cubex::cube::cubeparser::LocationGroupContext Class Reference

Collaboration diagram for scalasca::cubex::cube::cubeparser::LocationGroupContext:



Public Member Functions

- String **toString** ()

Public Attributes

- int **id** = -1

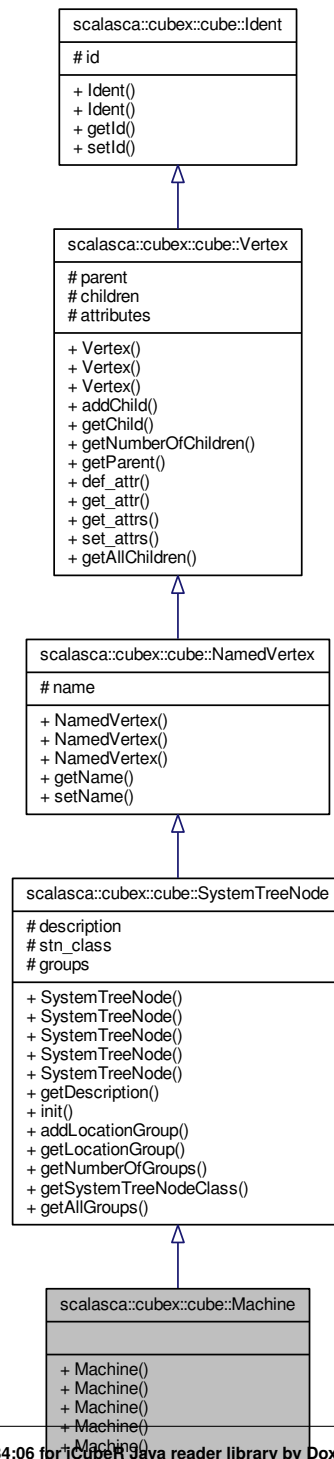
- String **name** = ""
- long **rank** = -1
- LocationGroupType **type** = LocationGroupType.PROCESS
- Map< String, String > **attributes** = new HashMap<String, String> ()

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

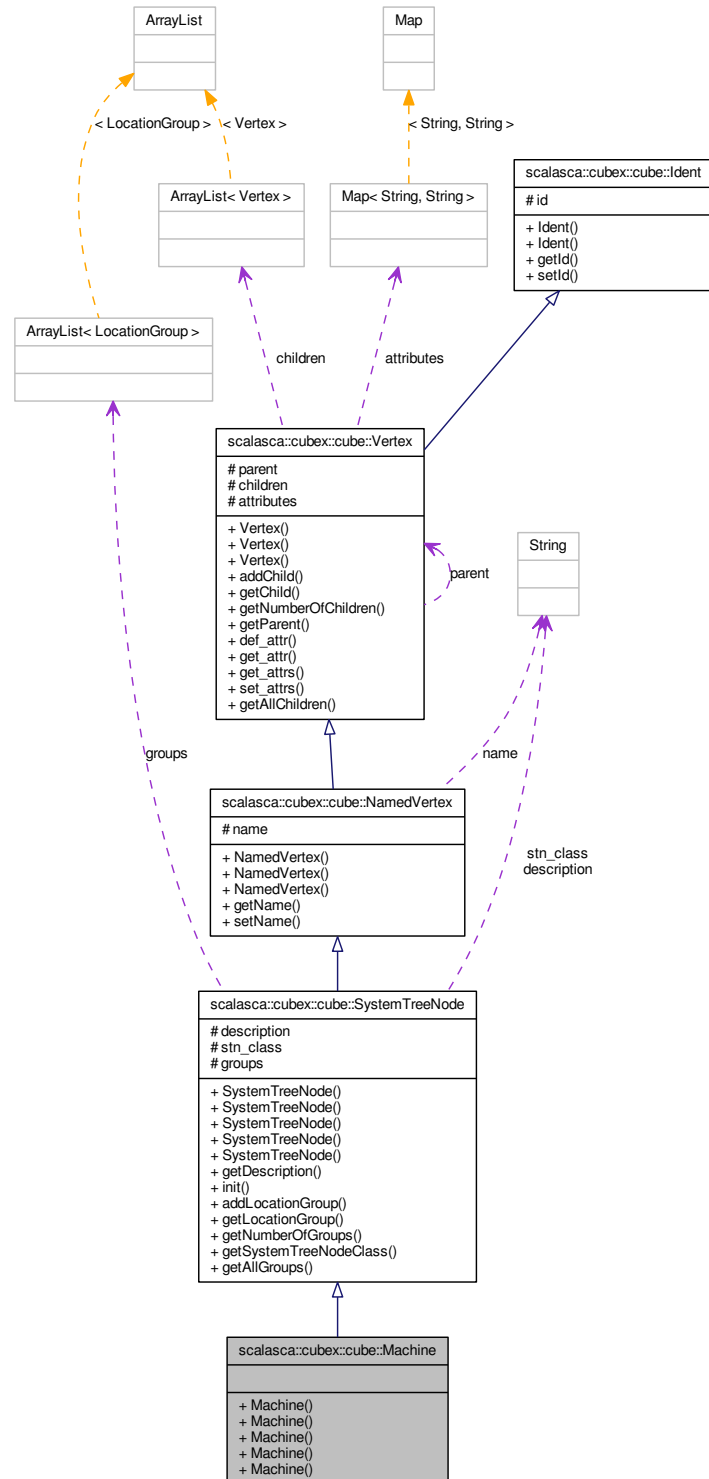
- src/jcuber/src/cube/cubeparser/LocationGroupContext.java

6.50 scalasca::cubex::cube::Machine Class Reference

Inheritance diagram for scalasca::cubex::cube::Machine:



Collaboration diagram for `scalasca::cubex::cube::Machine`:



Public Member Functions

- **Machine** (int _id)
- **Machine** (int _id, String _name)
- **Machine** (int _id, String _name, String _description)
- **Machine** ([SystemTreeNode](#) _clone)

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

- src/jcuber/src/cube/Machine.java

6.51 scalasca::cubex::cube::datalayout::Matrix Class Reference

Public Member Functions

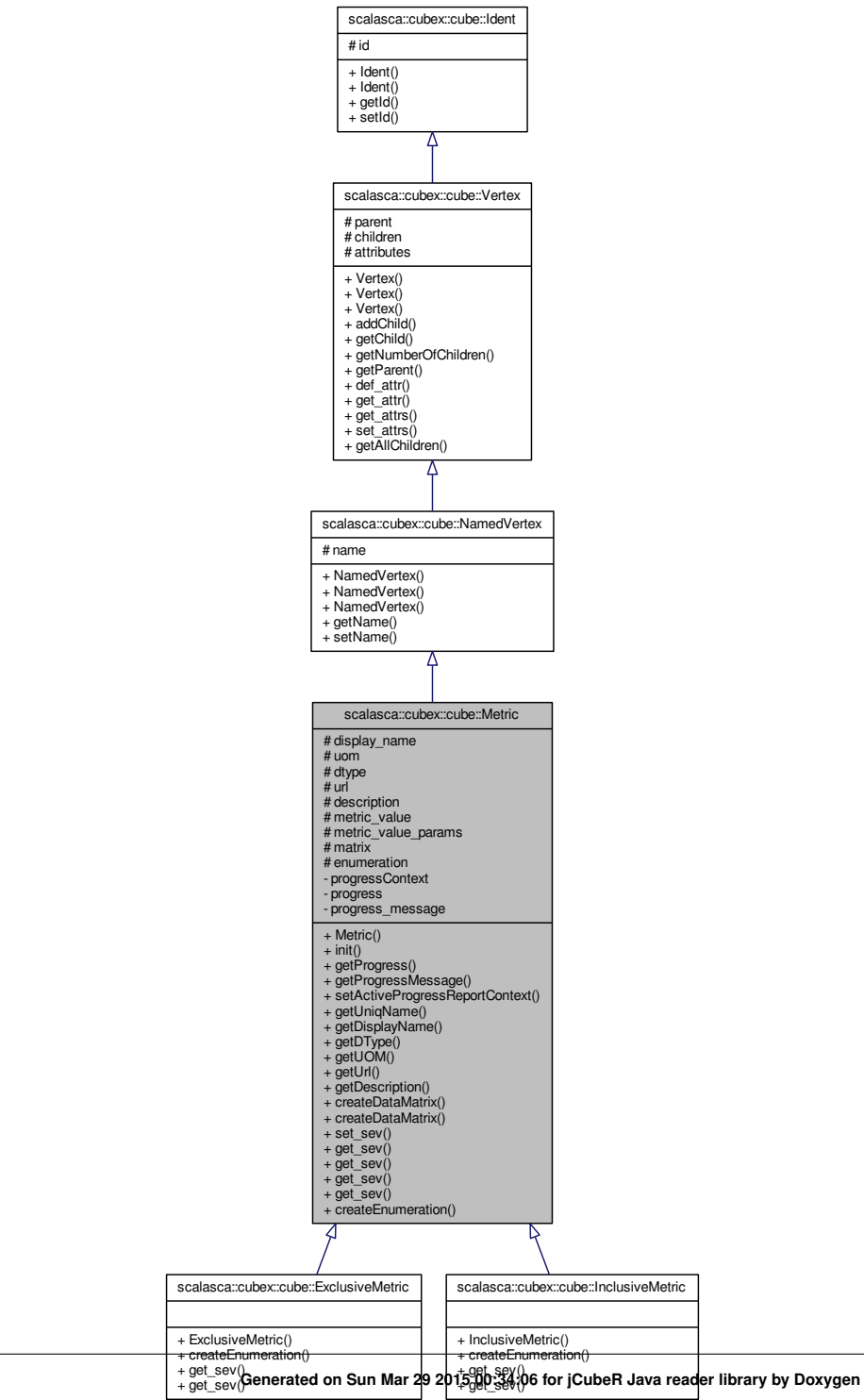
- **Matrix** (Value _val, int number_of_cnodes, int number_of_threads)
- **Matrix** (DataRows source, Index index, int number_of_cnodes, int number_of_threads)
- void **print** ()
- Value **getValue** (int cid, int tid)
- Value **sumRow** (int cid)
- void **setValue** (int cid, int tid, String val)

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

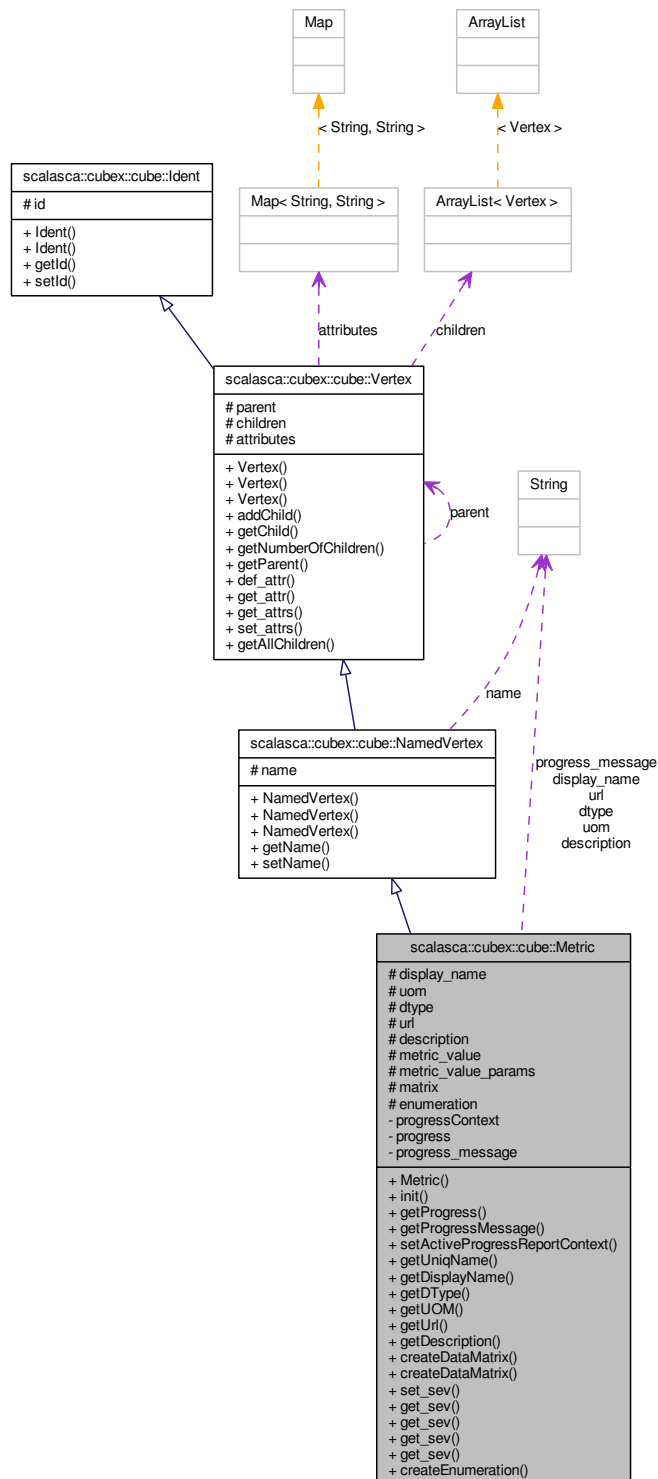
- src/jcuber/src/cube/datalayout/Matrix.java

6.52 scalasca::cubex::cube::Metric Class Reference

Inheritance diagram for scalasca::cubex::cube::Metric:



Collaboration diagram for scalasca::cubex::cube::Metric:



Public Member Functions

- **Metric** (int _id, [Metric](#) _parent)
- void **init** (String _uniq_name, String _display_name, String _dtype, String _uom, String _url, String _description) throws [UnknownValueTypeException](#), [WrongNumberOfValueParametersException](#)
- double **getProgress** ()
- String **getProgressMessage** ()
- void **setActiveProgressReportContext** ([ProgressReportContext](#) _proc)
- String **getUniqName** ()
- String **getDisplayName** ()
- String **getDType** ()
- String **getUOM** ()
- String **getUrl** ()
- String **getDescription** ()
- void **createDataMatrix** (int number_of_cnodes, int number_of_threads)
- void **createDataMatrix** (byte[] metric_index, byte[] metric_data, int number_of_cnodes, int number_of_threads) throws [BadCubeReportLayoutException](#), [Exception](#)
- void **set_sev** ([Cnode](#) cnode, [Location](#) loc, String val) throws [NotEnumeratedCnodeException](#)
- Value **get_sev** ([Cnode](#) cnode, [CubeCalculationFlavour](#) cf, [Location](#) loc, [CubeCalculationFlavour](#) lf) throws [NotEnumeratedCnodeException](#)
- Value **get_sev** ([Cnode](#) cnode, [CubeCalculationFlavour](#) cf) throws [NotEnumeratedCnodeException](#)
- Value **get_sev** ([Cnode](#) cnode, [CubeCalculationFlavour](#) cf, [LocationGroup](#) lg, [CubeCalculationFlavour](#) lgf) throws [NotEnumeratedCnodeException](#)
- Value **get_sev** ([Cnode](#) cnode, [CubeCalculationFlavour](#) cf, [SystemTreeNode](#) stn, [CubeCalculationFlavour](#) stnf) throws [NotEnumeratedCnodeException](#)
- void **createEnumeration** ([ArrayList](#)< [scalasca.cubex.cube.Cnode](#) > root_cnodes)

Protected Attributes

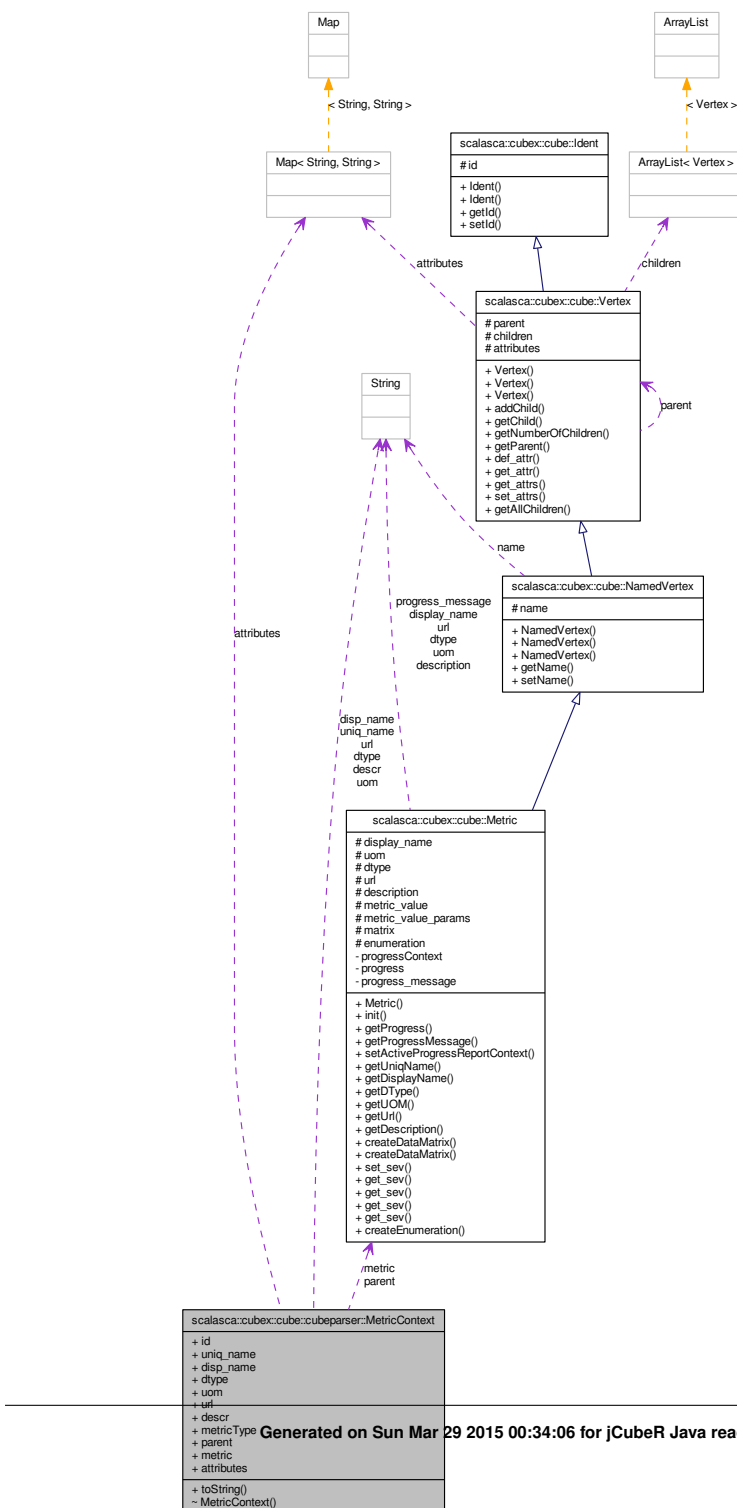
- String **display_name**
- String **uom**
- String **dtype**
- String **url**
- String **description**
- Value **metric_value**
- [Vector](#)< Double > **metric_value_params**
- [Matrix](#) **matrix**
- [CnodesEnumeration](#) **enumeration**

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

- [src/jcuber/src/cube/Metric.java](#)

6.53 scalasca::cubex::cube::cubeparser::MetricContext Class Reference

Collaboration diagram for scalasca::cubex::cube::cubeparser::MetricContext:



Public Member Functions

- String **toString** ()

Public Attributes

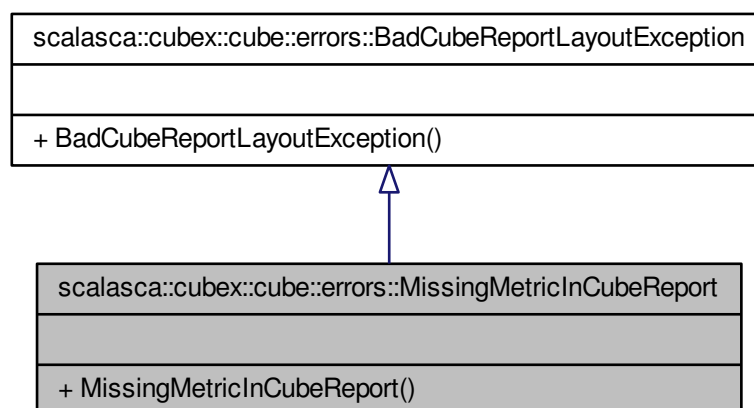
- int **id** = -1
- String **uniq_name** = ""
- String **disp_name** = ""
- String **dtype** = ""
- String **uom** = ""
- String **url** = ""
- String **descr** = ""
- MetricType **metricType** = MetricType.EXCLUSIVE
- Metric **parent** = null
- Metric **metric** = null
- Map< String, String > **attributes** = new HashMap<String, String> ()

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

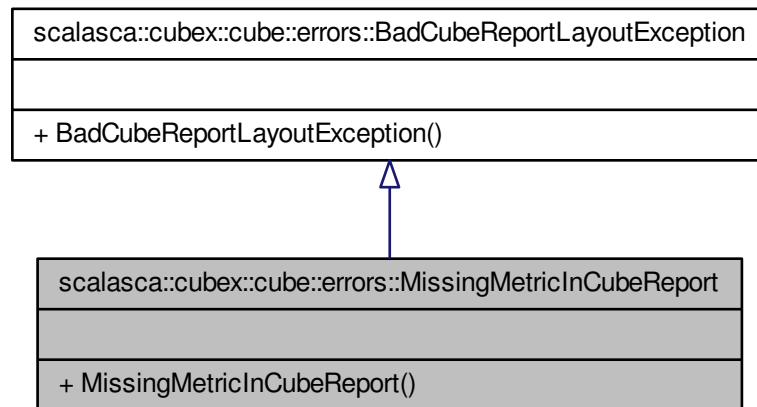
- src/jcuber/src/cube/cubeparser/MetricContext.java

6.54 scalasca::cubex::cube::errors::MissingMetricInCubeReport Class Reference

Inheritance diagram for scalasca::cubex::cube::errors::MissingMetricInCubeReport:



Collaboration diagram for `scalasca::cubex::cube::errors::MissingMetricInCubeReport`:



Public Member Functions

- **MissingMetricInCubeReport** (String message)

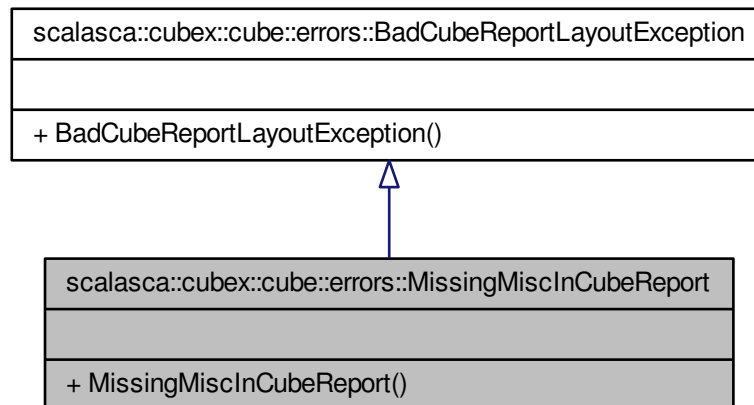
The documentation for this class was generated from the following file:

- `src/jcuber/src/cube/errors/MissingMetricInCubeReport.java`

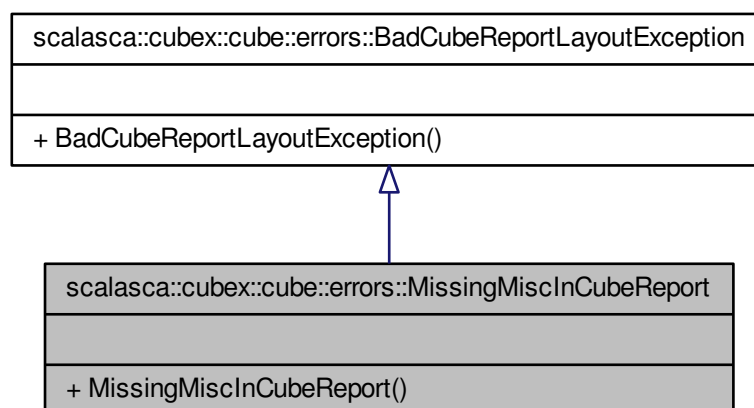
6.55 scalasca::cubex::cube::errors::MissingMiscInCubeReport Class Reference

6.55 scalasca::cubex::cube::errors::MissingMiscInCubeReport Class Reference

Inheritance diagram for scalasca::cubex::cube::errors::MissingMiscInCubeReport:



Collaboration diagram for scalasca::cubex::cube::errors::MissingMiscInCubeReport:



Public Member Functions

- **MissingMiscInCubeReport** (String message)

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

- `src/jcuber/src/cube/errors/MissingMiscInCubeReport.java`

6.56 `scalasca::cubex::cube::errors::MissingRowException` Class Reference

Public Member Functions

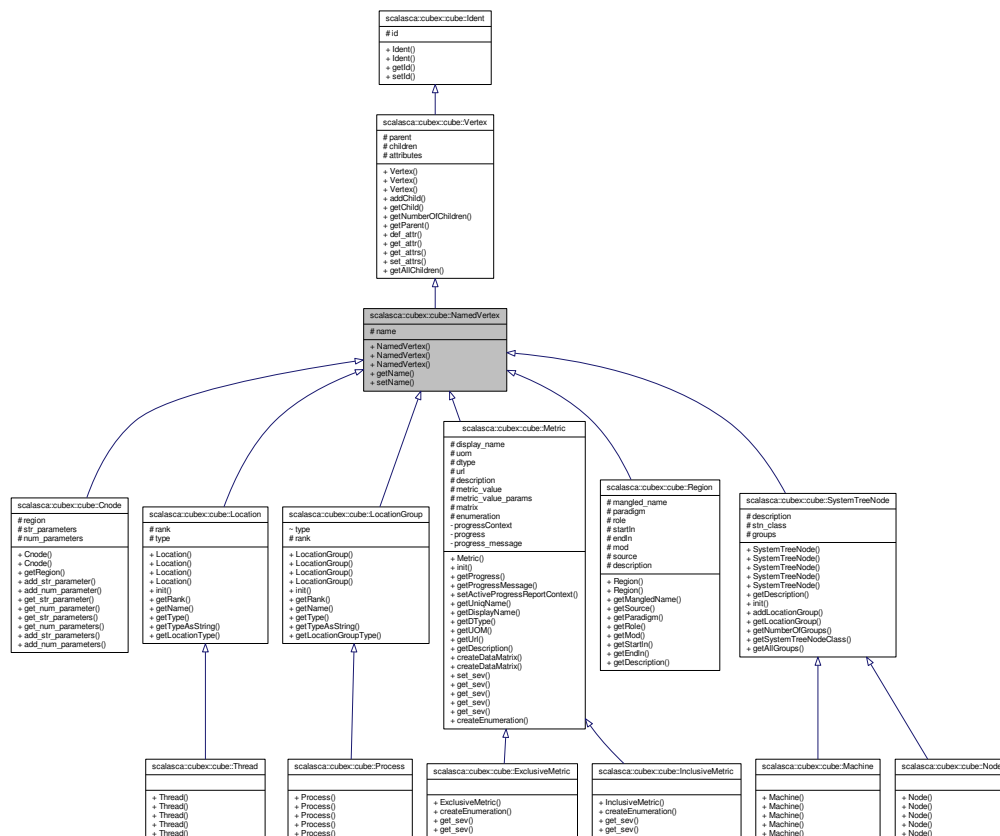
- **MissingRowException** (int row)

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

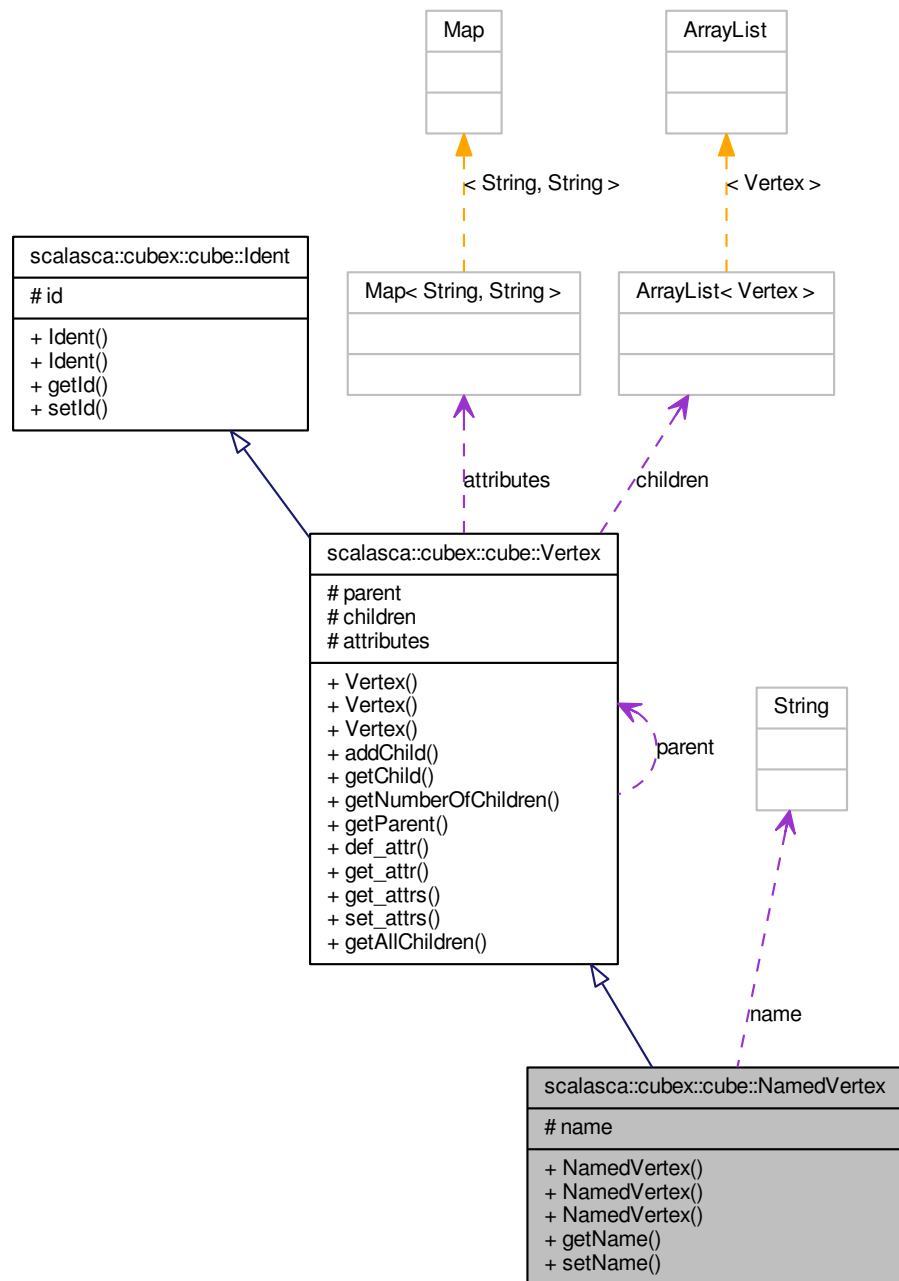
- `src/jcuber/src/cube/errors/MissingRowException.java`

6.57 scalasca::cubex::cube::NamedVertex Class Reference

Inheritance diagram for scalasca::cubex::cube::NamedVertex:



Collaboration diagram for `scalasca::cubex::cube::NamedVertex`:



Public Member Functions

- **NamedVertex** (String _name)
- **NamedVertex** (int _id, String _name)
- **NamedVertex** (int _id, String _name, [Vertex](#) _parent)
- String **getName** ()
- void **setName** (String _name)

Protected Attributes

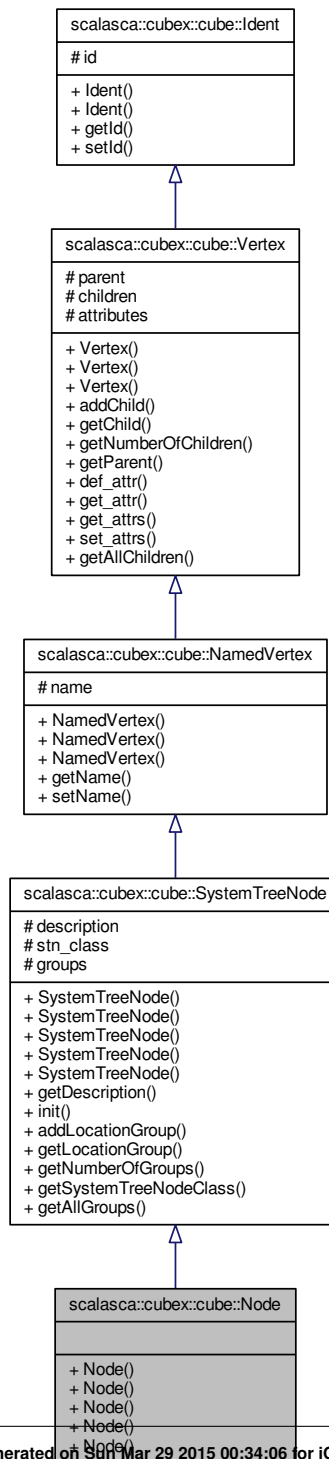
- String **name** = ""

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

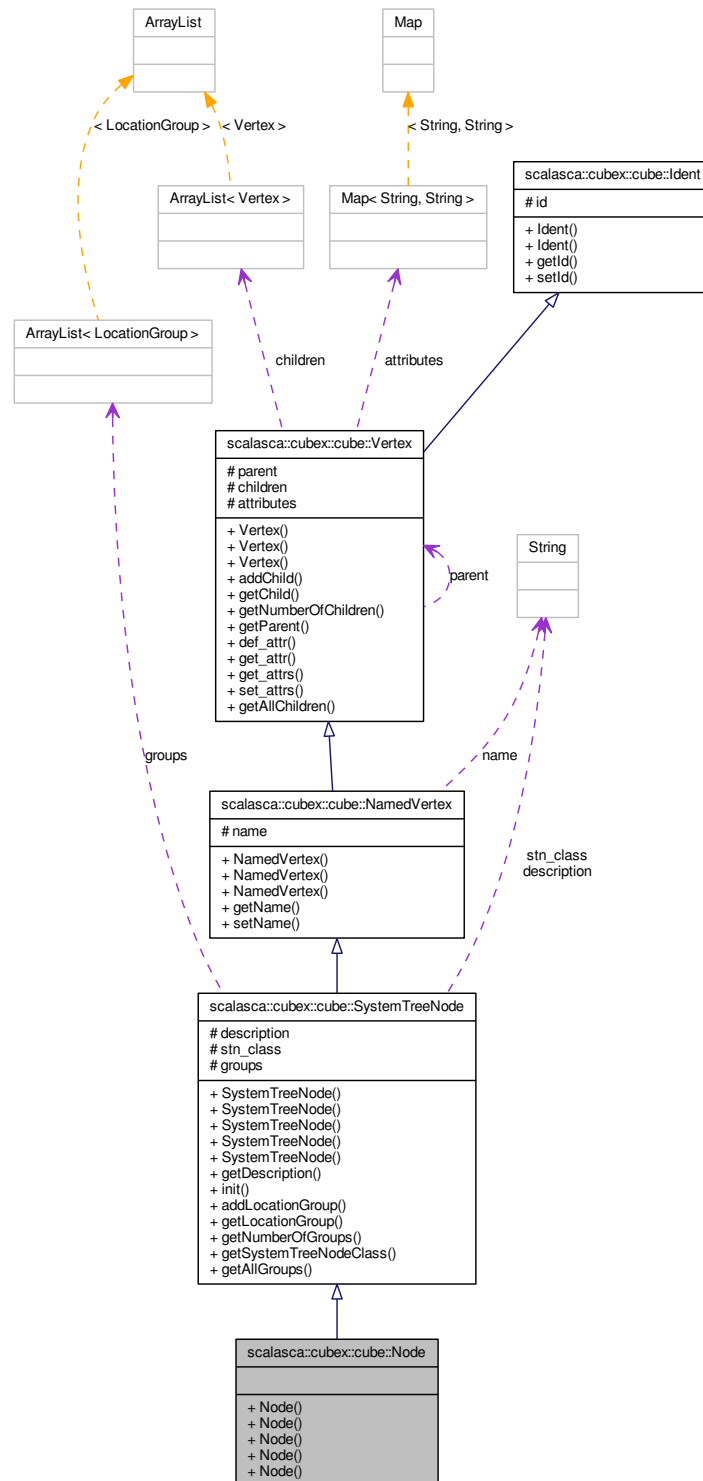
- `src/jcuber/src/cube/NamedVertex.java`

6.58 scalasca::cubex::cube::Node Class Reference

Inheritance diagram for scalasca::cubex::cube::Node:



Collaboration diagram for scalasca::cubex::cube::Node:



Public Member Functions

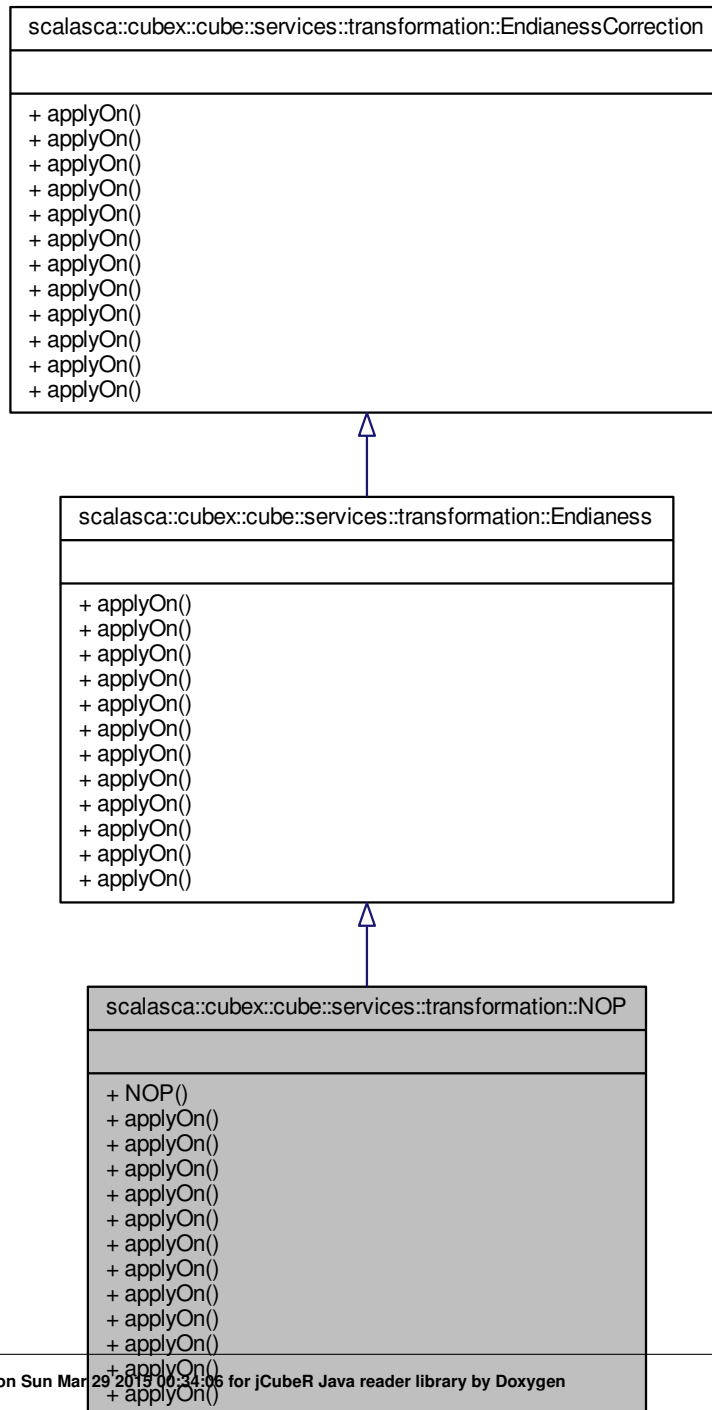
- **Node** (int _id, [Machine](#) parent)
- **Node** (int _id, String _name, [Machine](#) parent)
- **Node** (int _id, String _name, String _description, [Machine](#) parent)
- **Node** ([SystemTreeNode](#) _clone, [SystemTreeNode](#) _parent)

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

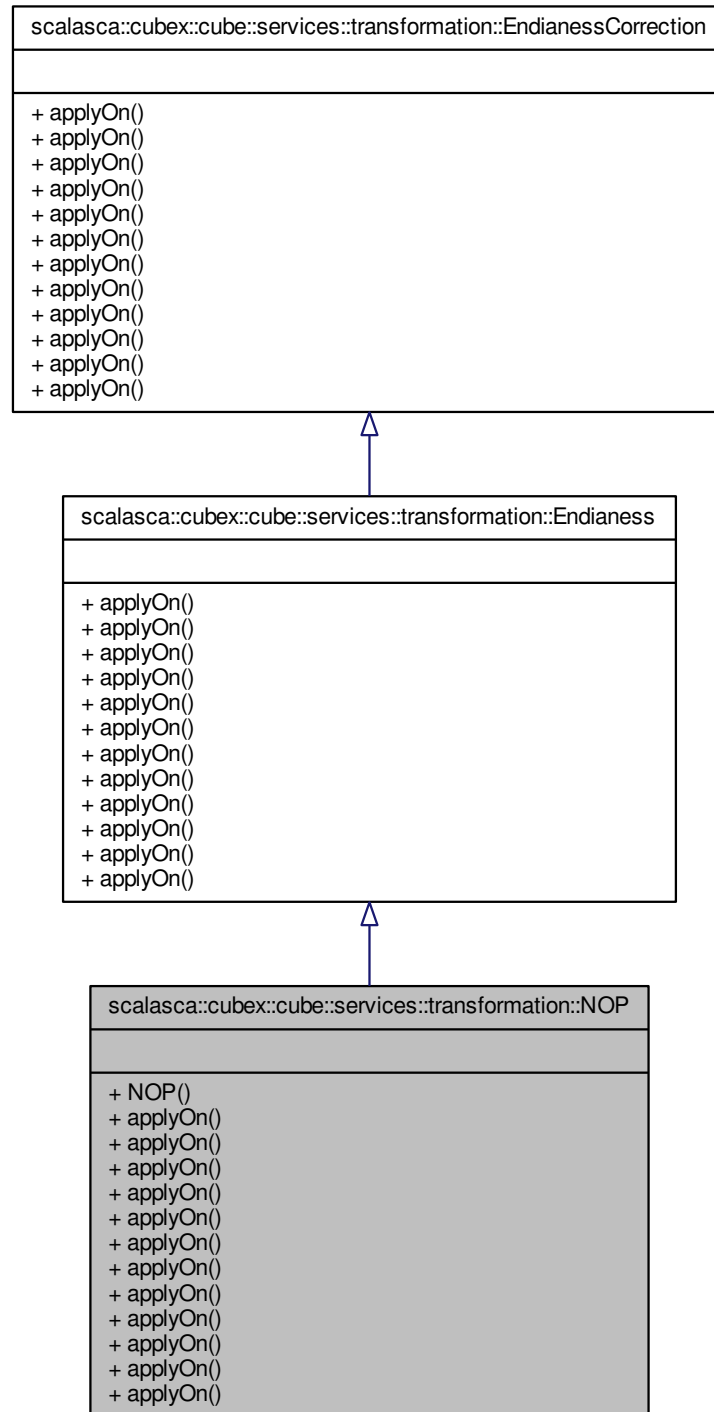
- src/jcuber/src/cube/Node.java

6.59 scalasca::cubex::cube::services::transformation::NOP Class Reference

Inheritance diagram for scalasca::cubex::cube::services::transformation::NOP:



Collaboration diagram for `scalasca::cubex::cube::services::transformation::NOP`:



Public Member Functions

- char **applyOn** (char a)
- byte **applyOn** (byte a)
- short **applyOn** (short a)
- int **applyOn** (int a)
- long **applyOn** (long a)
- double **applyOn** (double a)
- Byte **applyOn** (Byte a)
- Short **applyOn** (Short a)
- Integer **applyOn** (Integer a)
- Long **applyOn** (Long a)
- Double **applyOn** (Double a)
- byte[] **applyOn** (byte[] a)

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

- src/jcuber/src/cube/services/transformation/NOP.java

6.60 scalasca::cubex::cube::errors::NotEnumeratedCnodeException Class Reference

Public Member Functions

- **NotEnumeratedCnodeException** (String message)

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

- src/jcuber/src/cube/errors/NotEnumeratedCnodeException.java

6.61 org::xeustechnologies::jtar::Octal Class Reference

Static Public Member Functions

- static long [parseOctal](#) (byte[] header, int offset, int length)
- static int [getOctalBytes](#) (long value, byte[] buf, int offset, int length)
- static int [getChecksumOctalBytes](#) (long value, byte[] buf, int offset, int length)
- static int [getLongOctalBytes](#) (long value, byte[] buf, int offset, int length)

6.61.1 Detailed Description

Author

Kamran Zafar

6.61.2 Member Function Documentation

6.61.2.1 `static int org::xeustechnologies::jar::Octal::getChecksumOctalBytes (long value, byte[] buf, int offset, int length) [inline, static]`

Parse the checksum octal integer from a header buffer.

Parameters

<i>value</i>	
<i>buf</i>	The header buffer from which to parse.
<i>offset</i>	The offset into the buffer from which to parse.
<i>length</i>	The number of header bytes to parse.

Returns

The integer value of the entry's checksum.

6.61.2.2 `static int org::xeustechnologies::jar::Octal::getLongOctalBytes (long value, byte[] buf, int offset, int length) [inline, static]`

Parse an octal long integer from a header buffer.

Parameters

<i>value</i>	
<i>buf</i>	The header buffer from which to parse.
<i>offset</i>	The offset into the buffer from which to parse.
<i>length</i>	The number of header bytes to parse.

Returns

The long value of the octal bytes.

6.61.2.3 `static int org::xeustechnologies::jar::Octal::getOctalBytes (long value, byte[] buf, int offset, int length) [inline, static]`

Parse an octal integer from a header buffer.

Parameters

<i>value</i>	
<i>buf</i>	The header buffer from which to parse.
<i>offset</i>	The offset into the buffer from which to parse.
<i>length</i>	The number of header bytes to parse.

Returns

The integer value of the octal bytes.

6.61.2.4 `static long org::xeustechnologies::jtar::Octal::parseOctal (byte[] header, int offset, int length)` [`inline`, `static`]

Parse an octal string from a header buffer. This is used for the file permission mode value.

Parameters

<i>header</i>	The header buffer from which to parse.
<i>offset</i>	The offset into the buffer from which to parse.
<i>length</i>	The number of header bytes to parse.

Returns

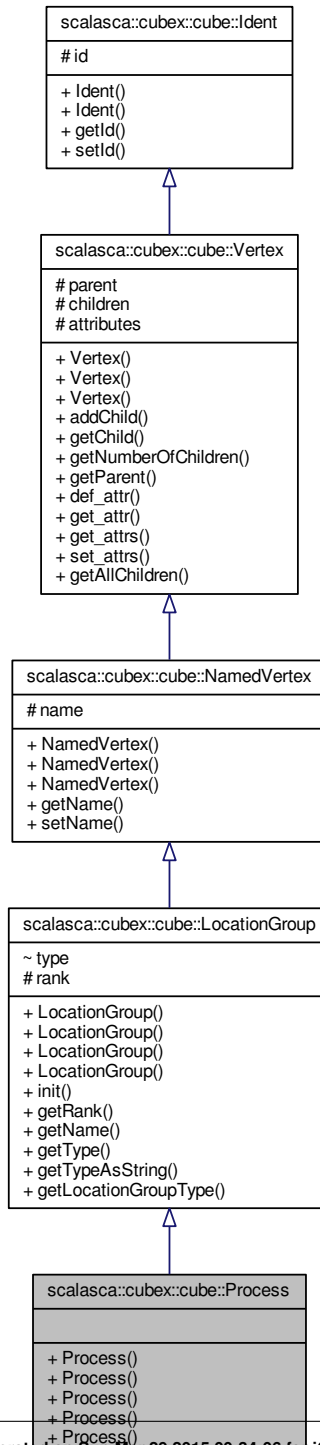
The long value of the octal string.

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

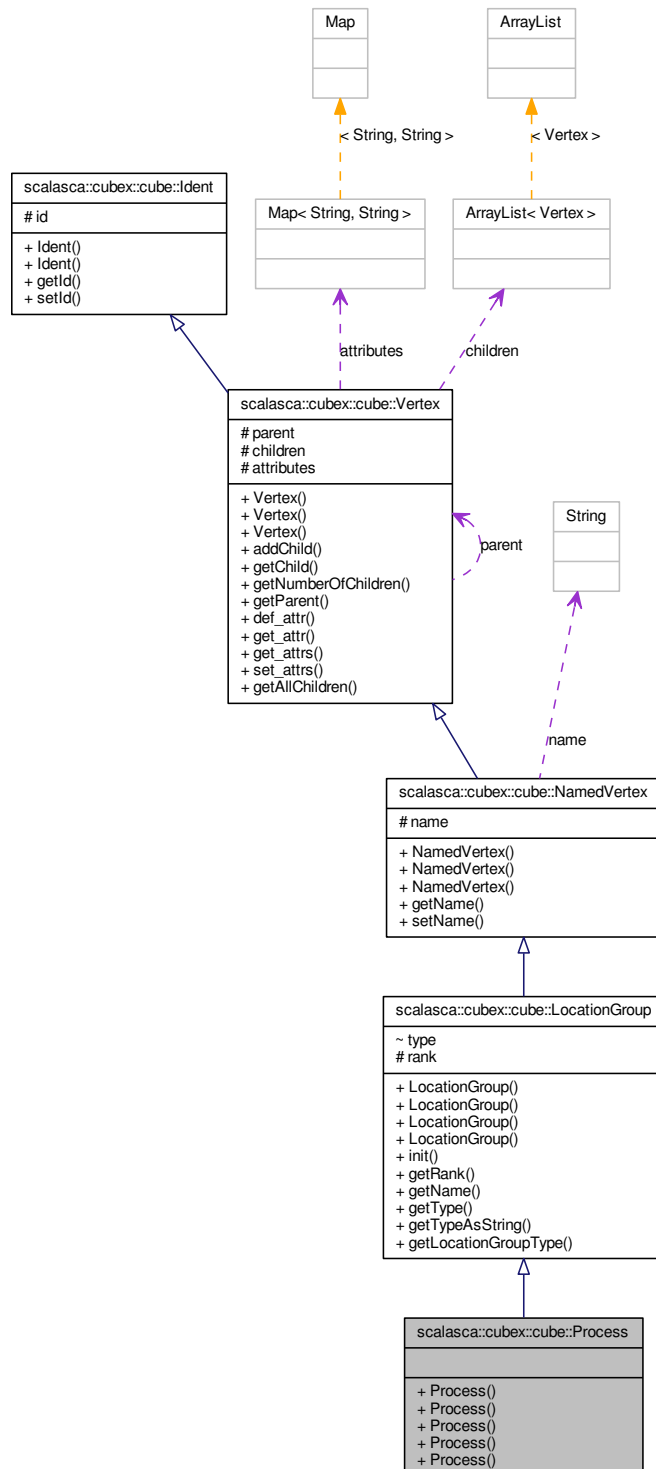
- `src/jcuber/src/tarviewer/Octal.java`

6.62 scalasca::cubex::cube::Process Class Reference

Inheritance diagram for scalasca::cubex::cube::Process:



Collaboration diagram for scalasca::cubex::cube::Process:



Public Member Functions

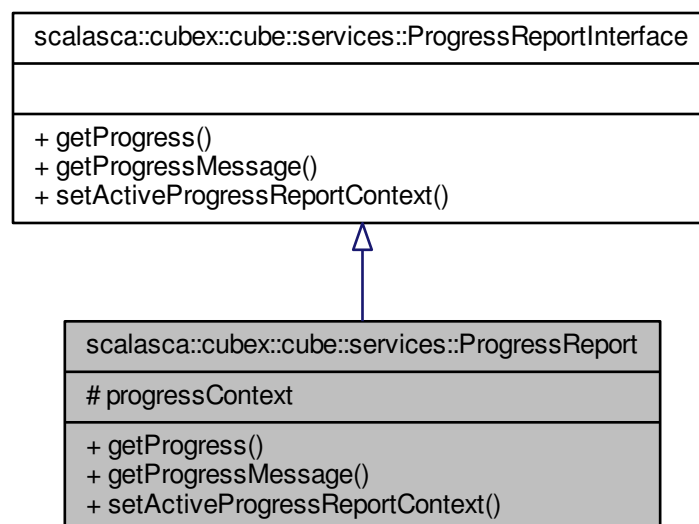
- **Process** (int _id, [SystemTreeNode](#) parent)
- **Process** (int _id, long _rank, [SystemTreeNode](#) parent)
- **Process** (int _id, long _rank, String _name, [SystemTreeNode](#) parent)
- **Process** ([LocationGroup](#) _clone, [SystemTreeNode](#) _parent)

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

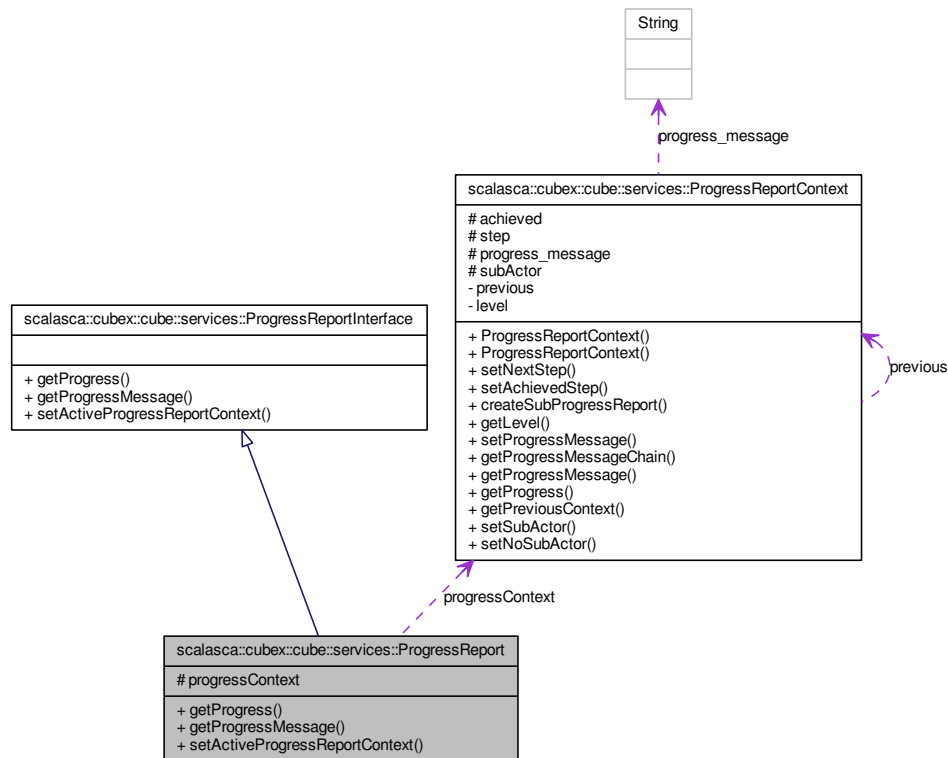
- src/jcuber/src/cube/Process.java

6.63 scalasca::cubex::cube::services::ProgressReport Class Reference

Inheritance diagram for scalasca::cubex::cube::services::ProgressReport:



Collaboration diagram for scalasca::cubex::cube::services::ProgressReport:



Public Member Functions

- double **getProgress** ()
- String **getProgressMessage** ()
- void **setActiveProgressReportContext** ([ProgressReportContext](#) _prc)

Protected Attributes

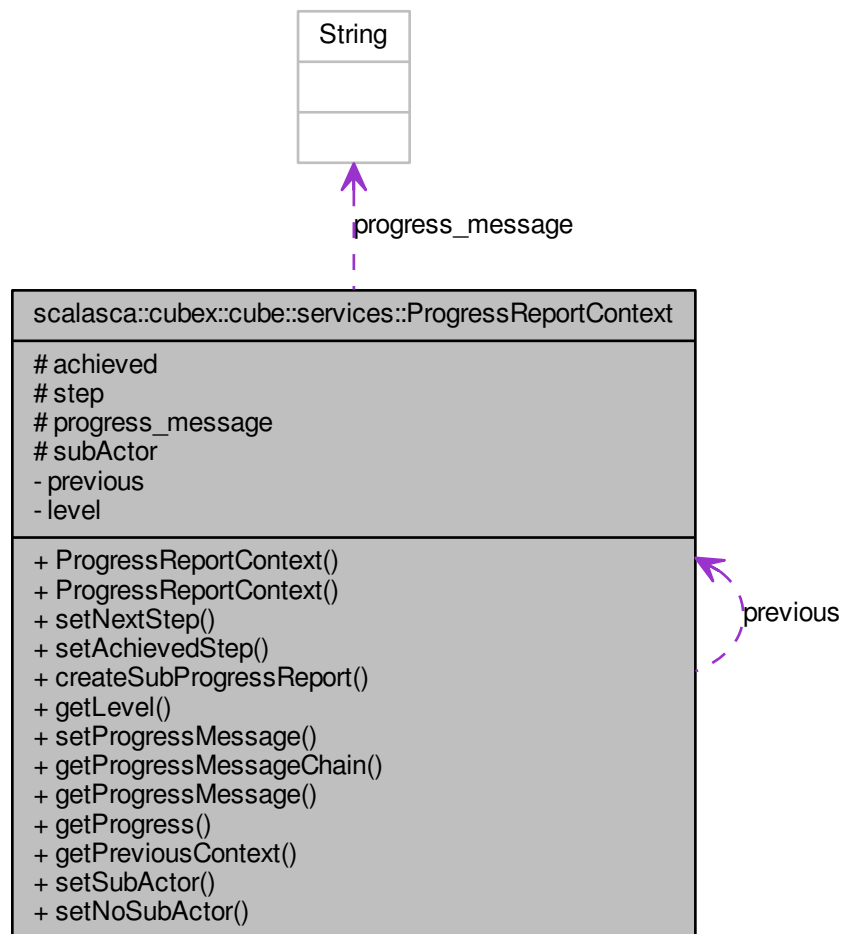
- [ProgressReportContext](#) **progressContext** = new [ProgressReportContext](#)()

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

- src/jcuber/src/cube/services/ProgressReport.java

6.64 scalasca::cubex::cube::services::ProgressReportContext Class Reference

Collaboration diagram for scalasca::cubex::cube::services::ProgressReportContext:



Public Member Functions

- **ProgressReportContext** ([ProgressReportContext](#) _previous)
- void **setNextStep** (double v)
- void **setAchievedStep** ()

6.64 `scalasca::cubex::cube::services::ProgressReportContext` Class Reference 71

- [ProgressReportContext](#) `createSubProgressReport` ()
- `int` `getLevel` ()
- `void` `setProgressMessage` (String _status)
- `String` `getProgressMessageChain` ()
- `String` `getProgressMessage` ()
- `double` `getProgress` ()
- [ProgressReportContext](#) `getPreviousContext` ()
- `void` `setSubActor` (Object _actor)
- `void` `setNoSubActor` ()

Protected Attributes

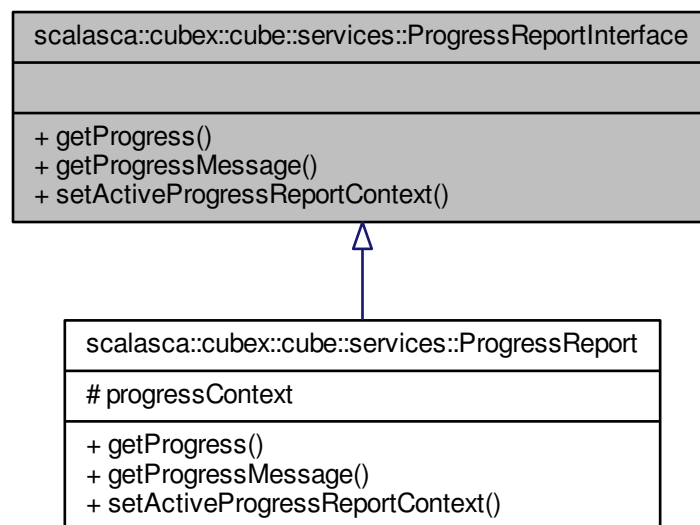
- `double` `achieved` = 0
- `double` `step` = 0
- `String` `progress_message`
- `Object` `subActor` = null

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

- `src/jcuber/src/cube/services/ProgressReportContext.java`

6.65 scalasca::cubex::cube::services::ProgressReportInterface Interface Reference

Inheritance diagram for scalasca::cubex::cube::services::ProgressReportInterface:



Public Member Functions

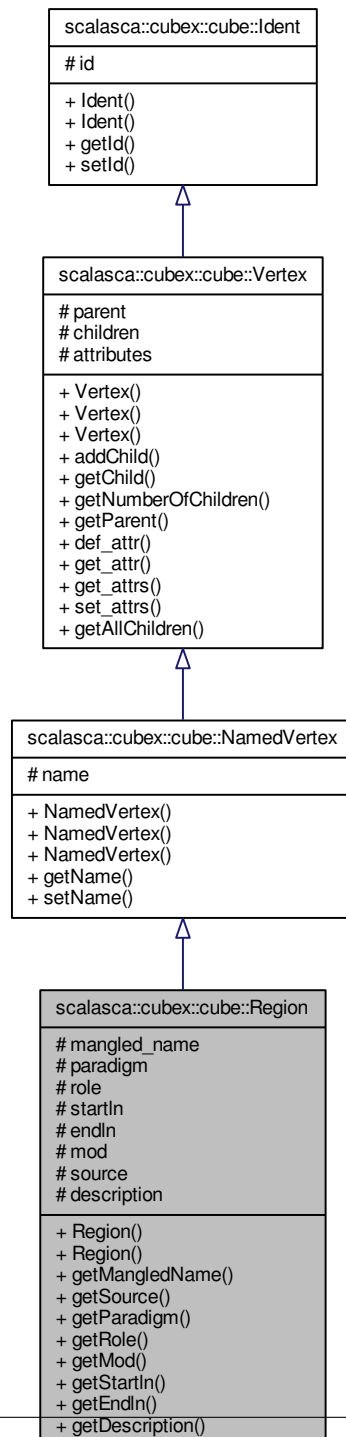
- double **getProgress** ()
- String **getProgressMessage** ()
- void **setActiveProgressReportContext** ([ProgressReportContext](#) _prc)

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

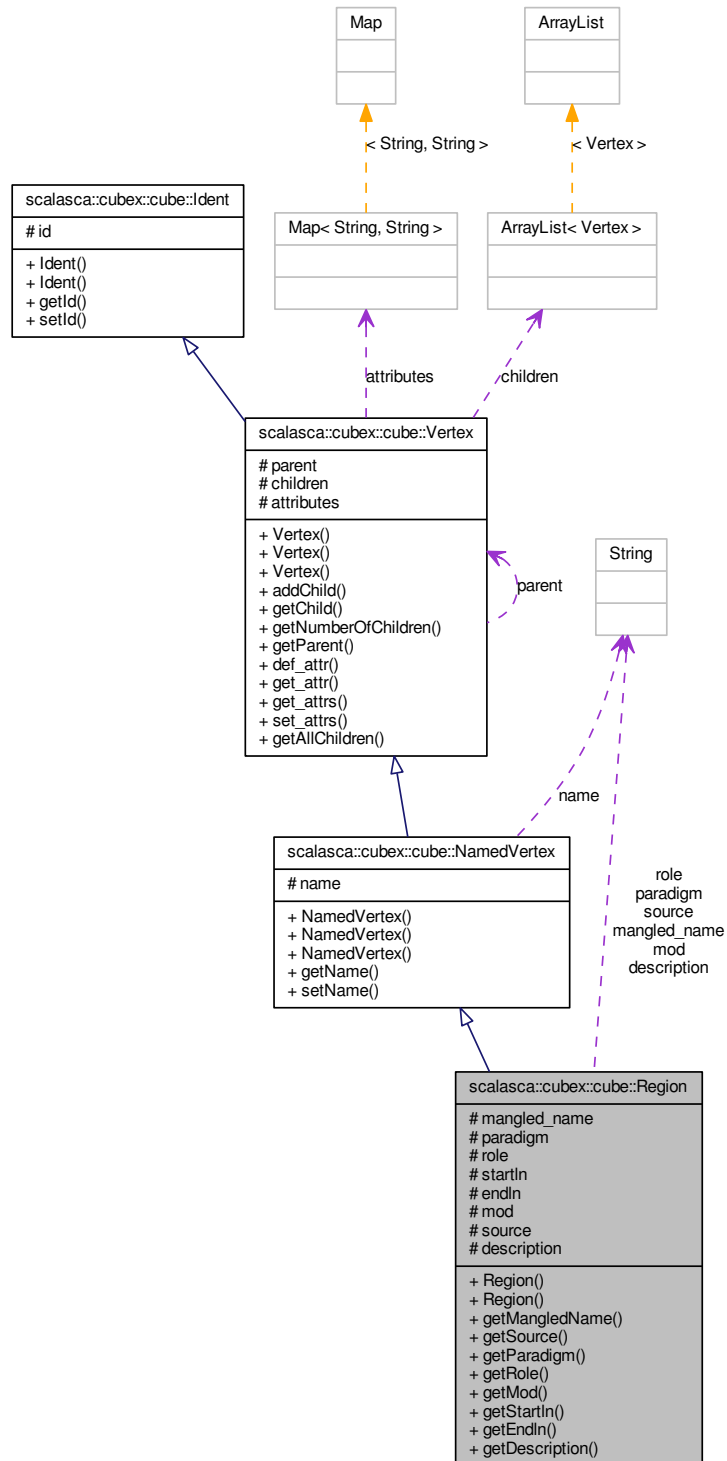
- `src/jcuber/src/cube/services/ProgressReportInterface.java`

6.66 scalasca::cubex::cube::Region Class Reference

Inheritance diagram for scalasca::cubex::cube::Region:



Collaboration diagram for `scalasca::cubex::cube::Region`:



Public Member Functions

- **Region** (int _id, String _name, String _mangled_name, String _paradigm, String _role, int _startln, int _endln, String _mod, String _source, String descr)
- String **getMangledName** ()
- String **getSource** ()
- String **getParadigm** ()
- String **getRole** ()
- String **getMod** ()
- int **getStartln** ()
- int **getEndln** ()
- String **getDescription** ()

Protected Attributes

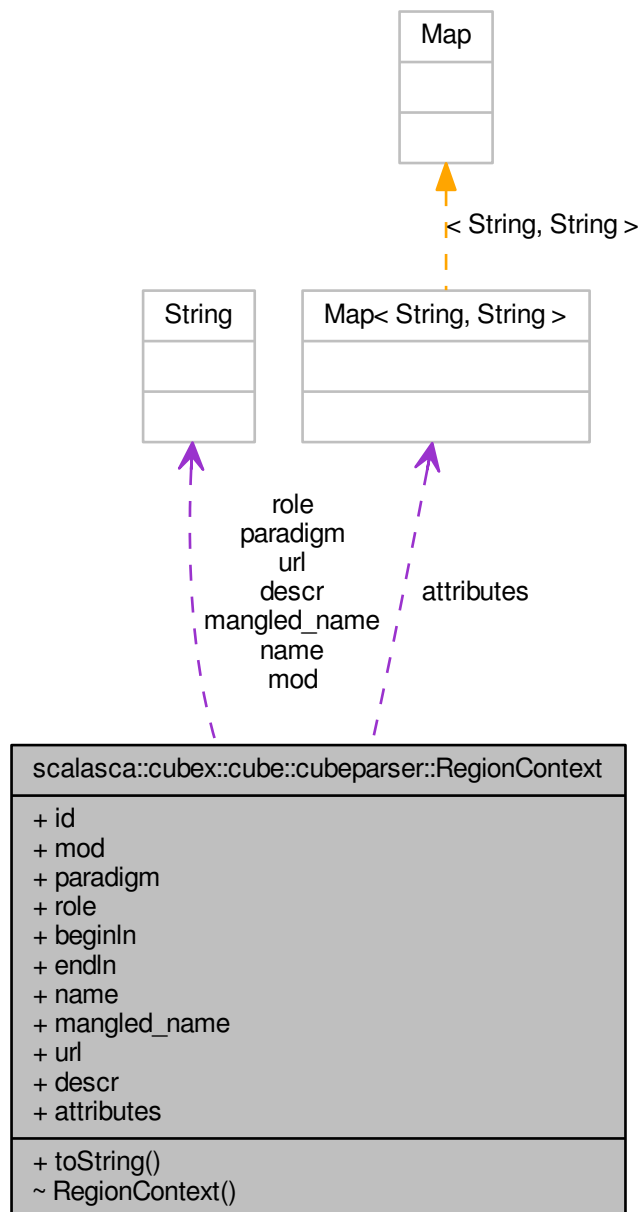
- String **mangled_name**
- String **paradigm**
- String **role**
- int **startln**
- int **endln**
- String **mod**
- String **source**
- String **description**

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

- src/jcuber/src/cube/Region.java

6.67 scalasca::cubex::cube::cubeparser::RegionContext Class Reference

Collaboration diagram for scalasca::cubex::cube::cubeparser::RegionContext:



Public Member Functions

- String **toString** ()

Public Attributes

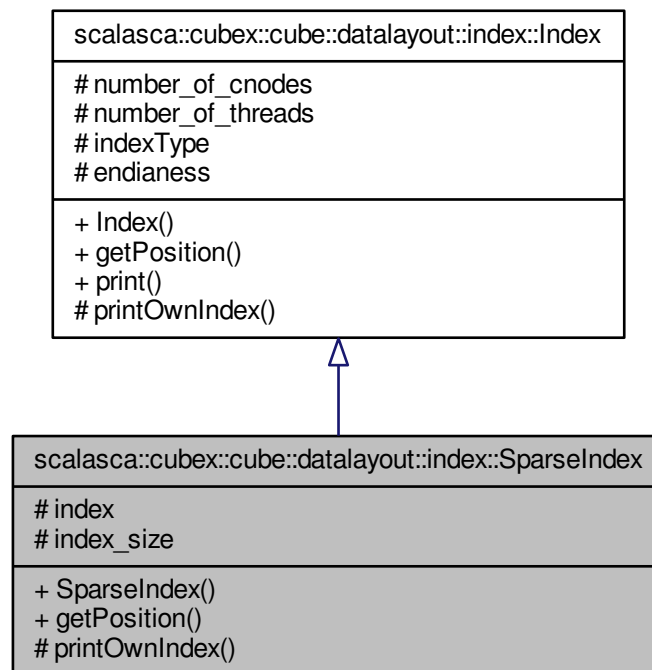
- int **id** = -1
- String **mod** = ""
- String **paradigm** = "unknown"
- String **role** = "unknown"
- int **beginln** = -1
- int **endl** = -1
- String **name** = ""
- String **mangled_name** = ""
- String **url** = ""
- String **descr** = ""
- Map< String, String > **attributes** = new HashMap<String, String> ()

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

- src/jcuber/src/cube/cubeparser/RegionContext.java

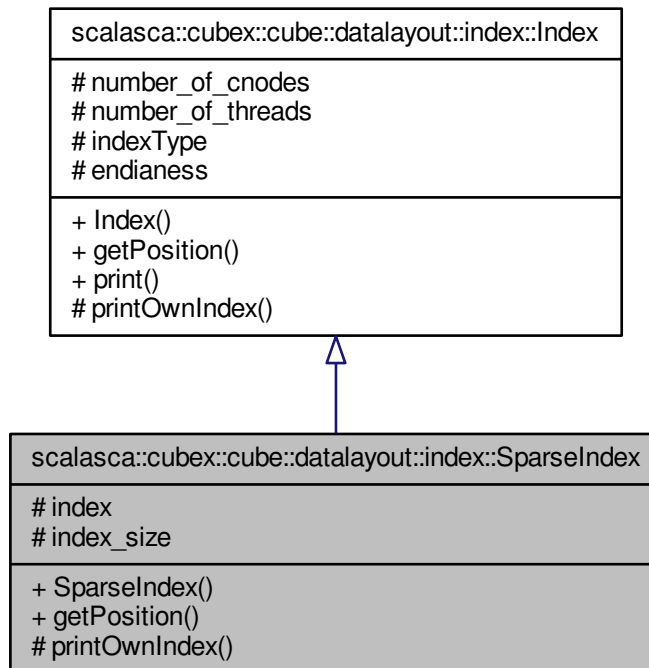
6.68 scalasca::cubex::cube::datalayout::index::SparseIndex Class Reference

Inheritance diagram for scalasca::cubex::cube::datalayout::index::SparseIndex:



6.68 scalasca::cubex::cube::datalayout::index::SparseIndex Class Reference 179

Collaboration diagram for scalasca::cubex::cube::datalayout::index::SparseIndex:



Public Member Functions

- **SparseIndex** (int number_of_cnodes, int number_of_threads, byte[] _index, Endianness _endianness) throws `BadCubeReportLayoutException`
- int **getPosition** (int cid, int tid) throws `IDOutOfBoundsException`, `MissingRowException`

Protected Member Functions

- void **printOwnIndex** ()

Protected Attributes

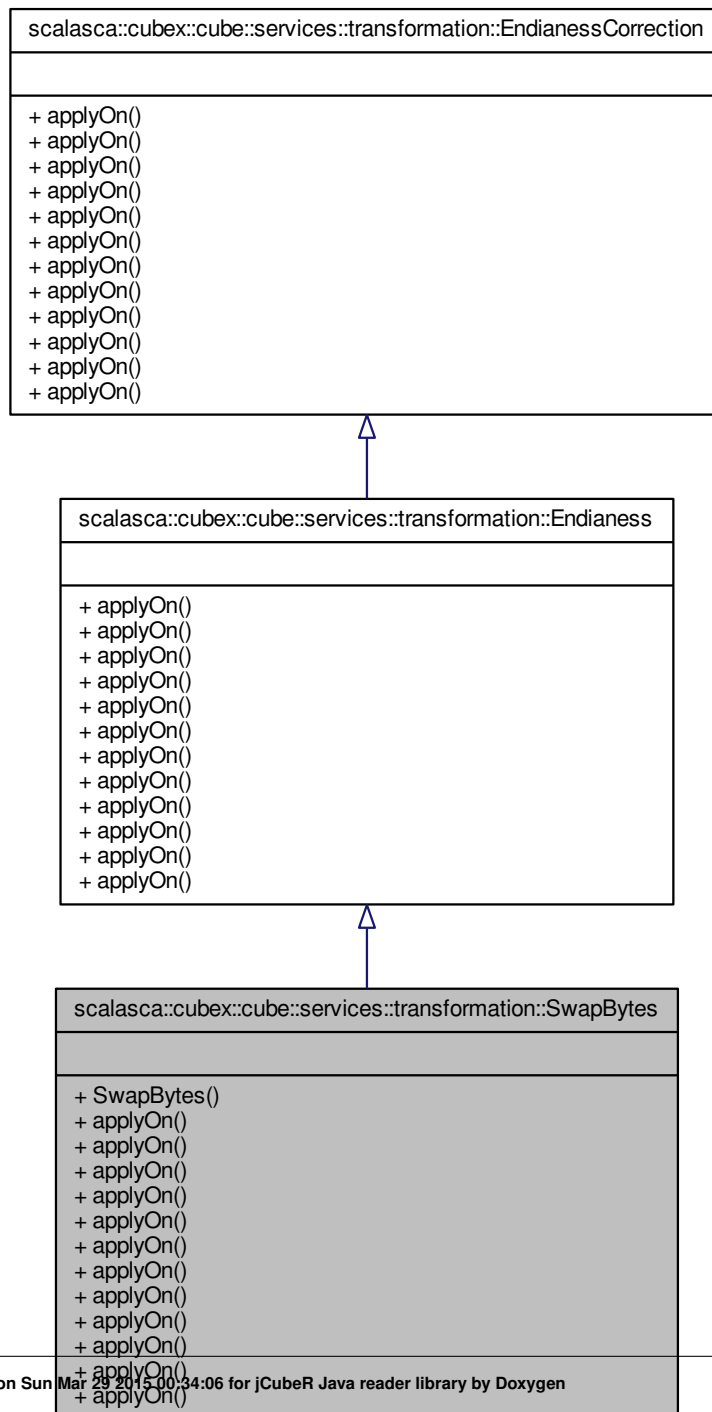
- int[] **index** = null
- int **index_size**

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

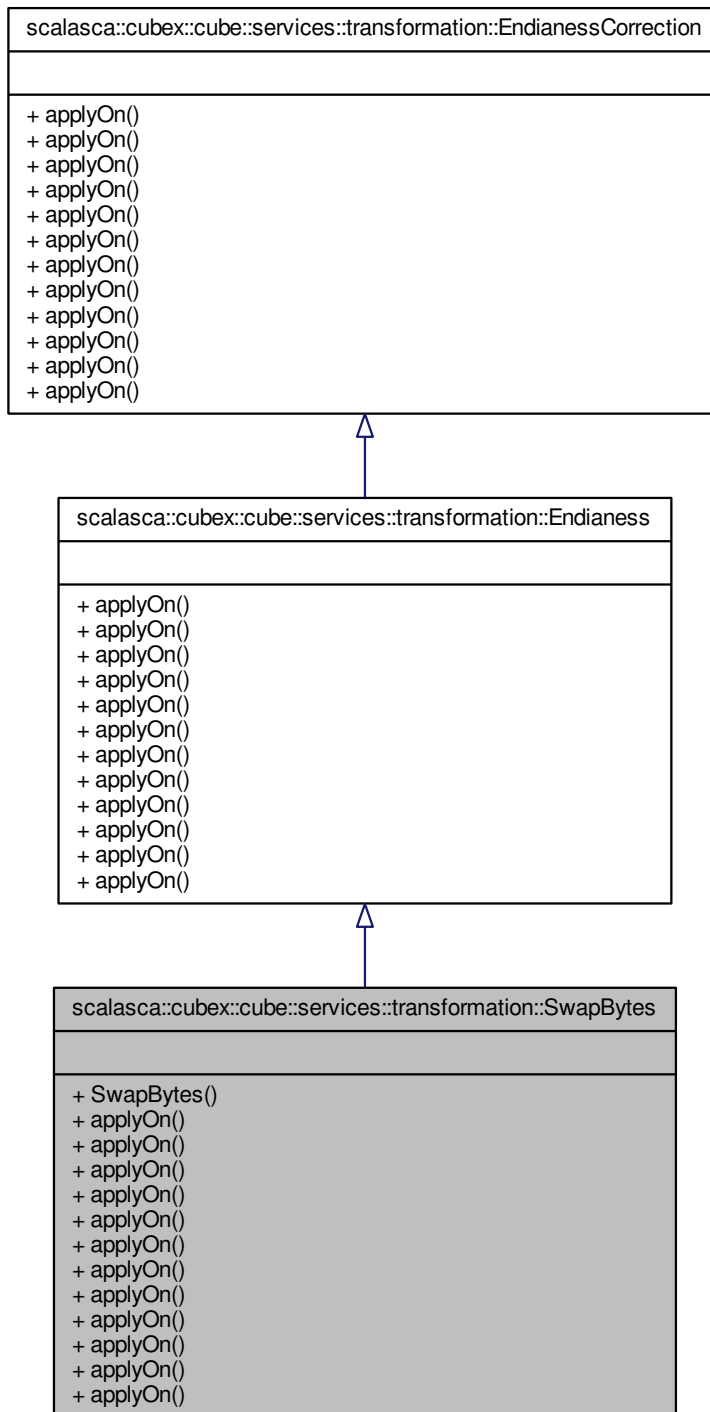
- `src/jcuber/src/cube/datalayout/index/SparseIndex.java`

6.69 scalasca::cubex::cube::services::transformation::SwapBytes Class Reference

Inheritance diagram for scalasca::cubex::cube::services::transformation::SwapBytes:



Collaboration diagram for scalasca::cubex::cube::services::transformation::SwapBytes:



Public Member Functions

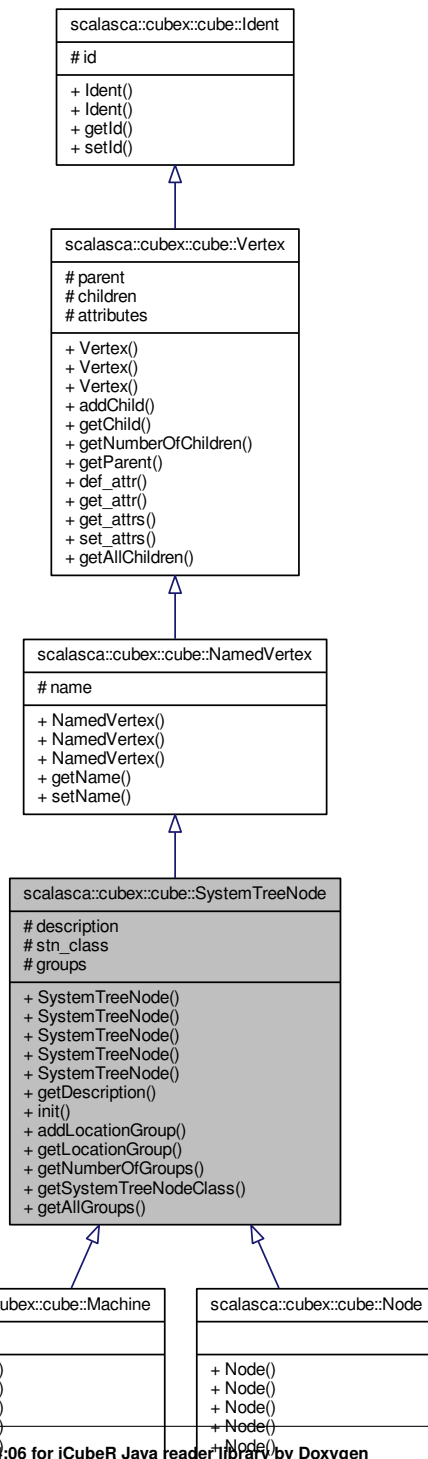
- char **applyOn** (char a)
- byte **applyOn** (byte a)
- short **applyOn** (short a)
- int **applyOn** (int a)
- long **applyOn** (long a)
- double **applyOn** (double a)
- Byte **applyOn** (Byte a)
- Short **applyOn** (Short a)
- Integer **applyOn** (Integer a)
- Long **applyOn** (Long a)
- Double **applyOn** (Double a)
- byte[] **applyOn** (byte[] a)

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

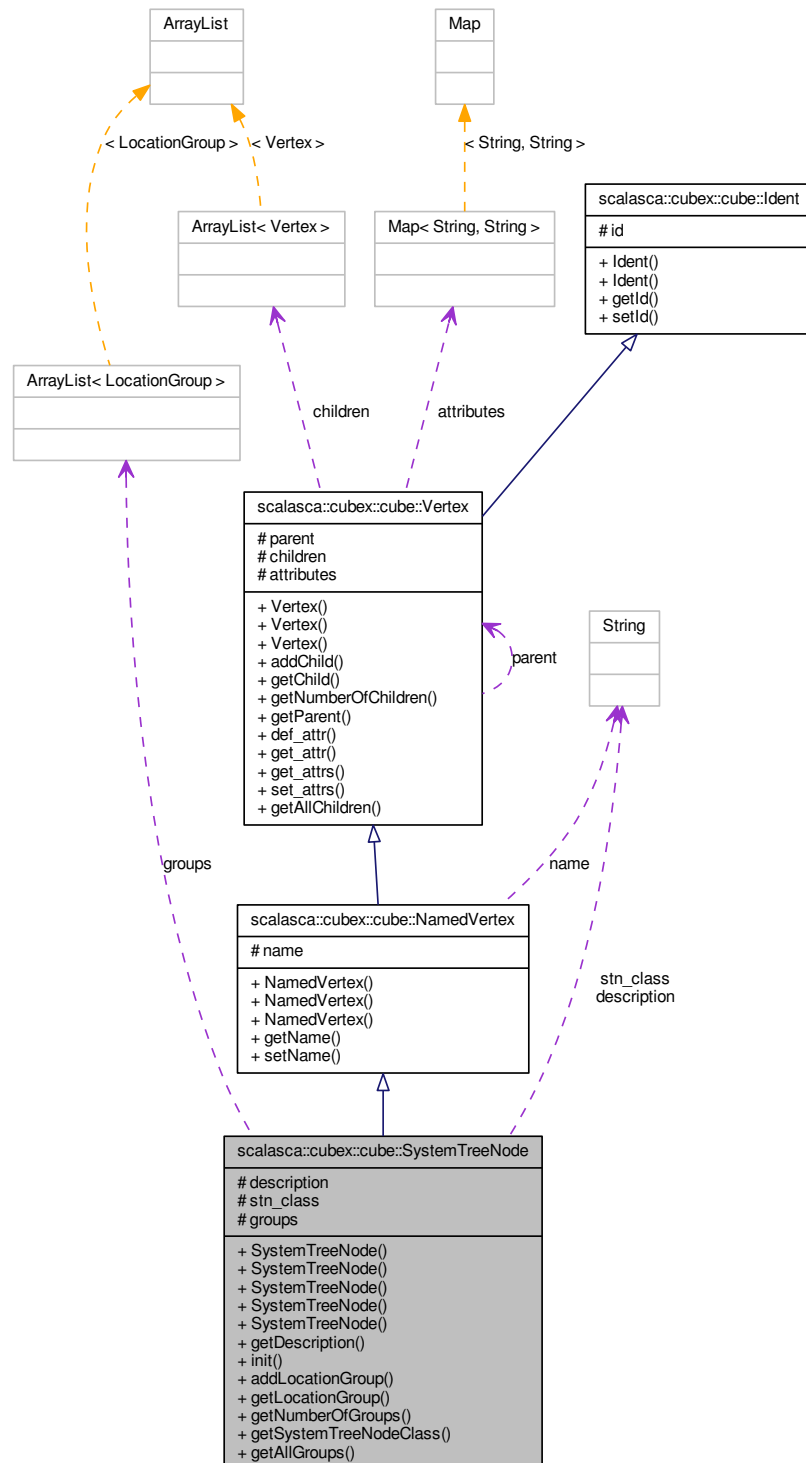
- src/jcuber/src/cube/services/transformation/SwapBytes.java

6.70 scalasca::cubex::cube::SystemTreeNode Class Reference

Inheritance diagram for scalasca::cubex::cube::SystemTreeNode:



Collaboration diagram for `scalasca::cubex::cube::SystemTreeNode`:



Public Member Functions

- **SystemTreeNode** (int _id, [SystemTreeNode](#) parent)
- **SystemTreeNode** (int _id, String _name, String _class, [SystemTreeNode](#) parent)
- **SystemTreeNode** (int _id, String _name, String _description, String _class)
- **SystemTreeNode** (int _id, String _name, String _description, String _class, [SystemTreeNode](#) parent)
- String **getDescription** ()
- void **init** (String _name, String _description, String _class)
- void **addLocationGroup** ([LocationGroup](#) _lg)
- [LocationGroup](#) **getLocationGroup** (int idx)
- int **getNumberOfGroups** ()
- String **getSystemTreeNodeClass** ()
- ArrayList< [LocationGroup](#) > **getAllGroups** ()

Protected Attributes

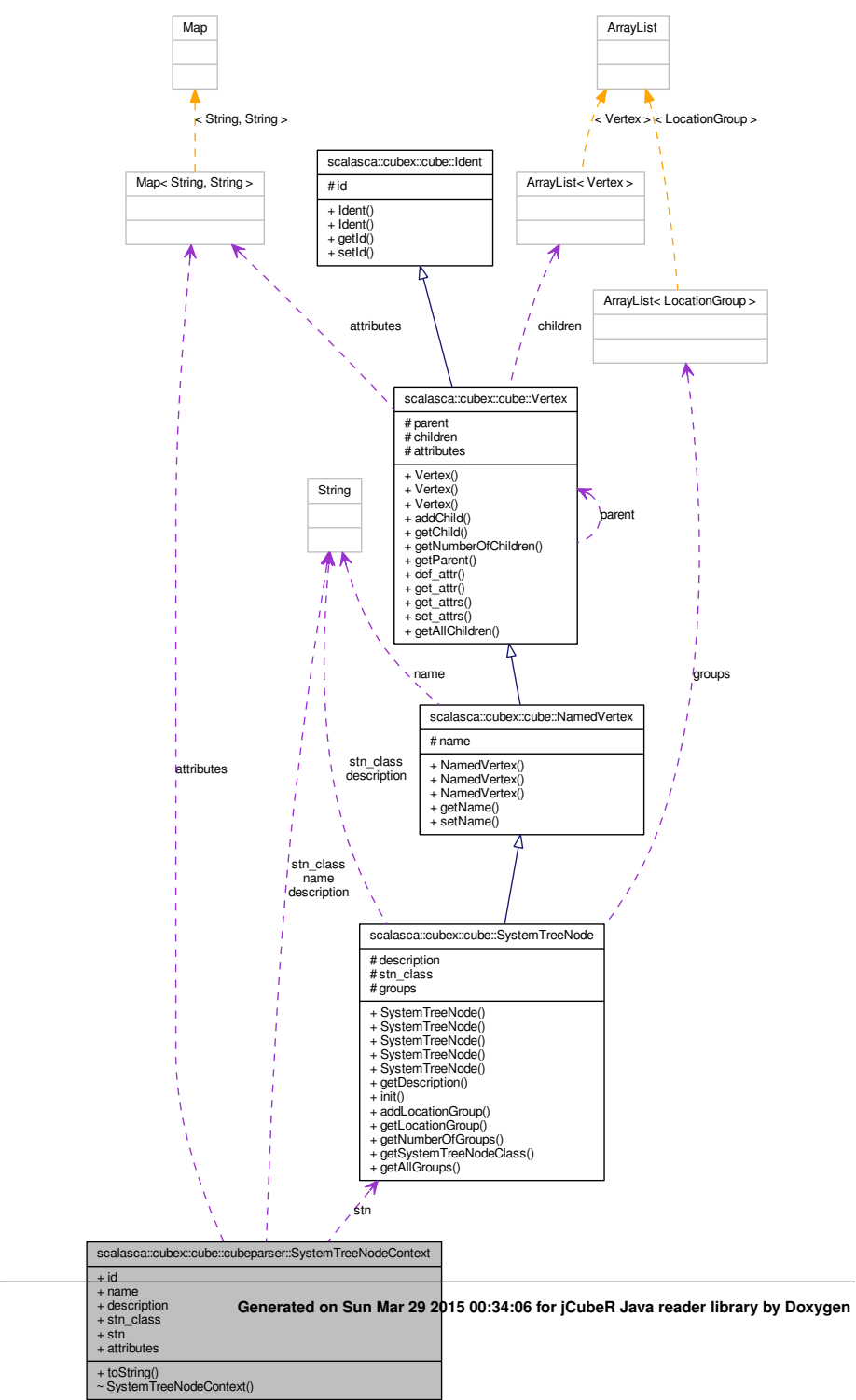
- String **description** = ""
- String **stn_class** = ""
- ArrayList< [LocationGroup](#) > **groups** = new ArrayList<[LocationGroup](#)> ()

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

- src/jcuber/src/cube/SystemTreeNode.java

6.71 scalasca::cubex::cube::cubeparser::SystemTreeNodeContext Class Reference

Collaboration diagram for scalasca::cubex::cube::cubeparser::SystemTreeNodeContext:



Public Member Functions

- String **toString** ()

Public Attributes

- int **id** = -1
- String **name** = ""
- String **description** = ""
- String **stn_class** = ""
- [SystemTreeNode](#) **stn** = null
- Map< String, String > **attributes** = new HashMap<String, String> ()

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

- src/jcuber/src/cube/cubeparser/SystemTreeNodeContext.java

6.72 org::xeustechnologies::jtar::TarConstants Class Reference

Static Public Attributes

- static final int **EOF_BLOCK** = 1024
- static final int **DATA_BLOCK** = 512
- static final int **HEADER_BLOCK** = 512

6.72.1 Detailed Description

Author

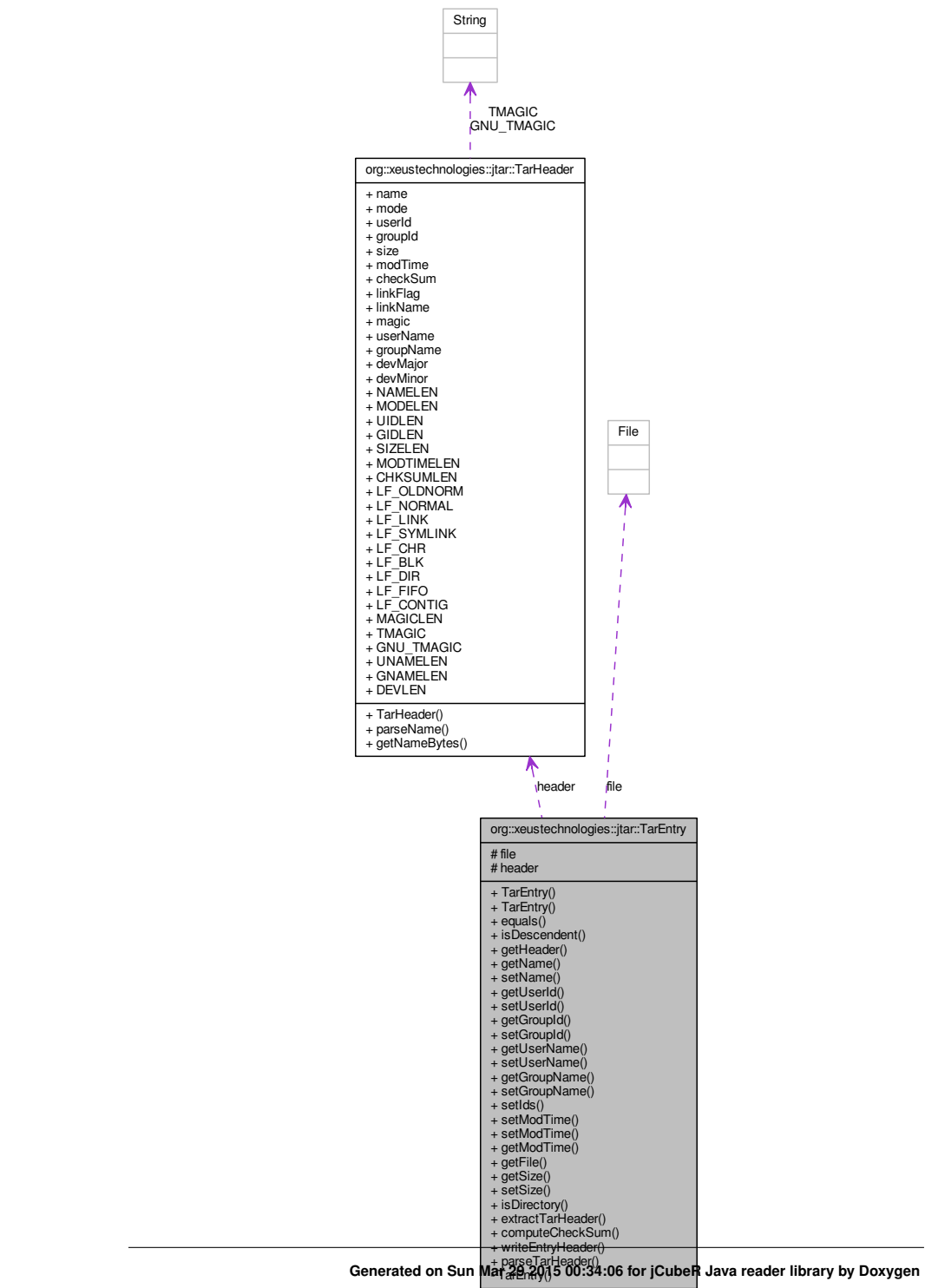
Kamran Zafar

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

- src/jcuber/src/tarviewer/TarConstants.java

6.73 org::xeustechnologies::jtar::TarEntry Class Reference

Collaboration diagram for org::xeustechnologies::jtar::TarEntry:



Public Member Functions

- **TarEntry** (File file, String entryName)
- **TarEntry** (byte[] headerBuf)
- boolean **equals** ([TarEntry](#) it)
- boolean **isDescendent** ([TarEntry](#) desc)
- [TarHeader](#) **getHeader** ()
- String **getName** ()
- void **setName** (String name)
- int **getUserId** ()
- void **setUserId** (int userId)
- int **getGroupId** ()
- void **setGroupId** (int groupId)
- String **getUserName** ()
- void **setUserName** (String userName)
- String **getGroupName** ()
- void **setGroupName** (String groupName)
- void **setIds** (int userId, int groupId)
- void **setModTime** (long time)
- void **setModTime** (Date time)
- Date **getModTime** ()
- File **getFile** ()
- long **getSize** ()
- void **setSize** (long size)
- boolean **isDirectory** ()
- void [extractTarHeader](#) (String entryName)
- long [computeChecksum](#) (byte[] buf)
- void [writeEntryHeader](#) (byte[] outbuf)
- void [parseTarHeader](#) (byte[] bh)

Protected Attributes

- File **file**
- [TarHeader](#) **header**

6.73.1 Detailed Description

Author

Kamran Zafar

6.73.2 Member Function Documentation

6.73.2.1 `long org::xeustechnologies::jtar::TarEntry::computeChecksum (byte[] buf)`
[inline]

Calculate checksum

Parameters

<i>buf</i>	
------------	--

Returns

6.73.2.2 `void org::xeustechnologies::jtar::TarEntry::extractTarHeader (String entryName)`
[inline]

Extract header from File

Parameters

<i>entryName</i>	
------------------	--

6.73.2.3 `boolean org::xeustechnologies::jtar::TarEntry::isDirectory ()` [inline]

Checks if the [org.xeustechnologies.jtar](#) entry is a directory

Returns

6.73.2.4 `void org::xeustechnologies::jtar::TarEntry::parseTarHeader (byte[] bh)`
[inline]

Parses the tar header to the byte buffer

Parameters

<i>header</i>	
<i>bh</i>	

6.73.2.5 `void org::xeustechnologies::jtar::TarEntry::writeEntryHeader (byte[] outbuf)`
[inline]

Writes the header to the byte buffer

Parameters

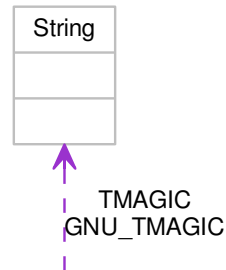
<i>outbuf</i>	
---------------	--

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

- `src/jcuber/src/tarviewer/TarEntry.java`

6.74 org::xeustechnologies::jtar::TarHeader Class Reference

Collaboration diagram for org::xeustechnologies::jtar::TarHeader:



Static Public Member Functions

- static StringBuffer [parseName](#) (byte[] header, int offset, int length)
- static int [getNameBytes](#) (StringBuffer name, byte[] buf, int offset, int length)

Public Attributes

- StringBuffer **name**
- int **mode**
- int **userId**
- int **groupId**
- long **size**
- long **modTime**
- int **checksum**
- byte **linkFlag**
- StringBuffer **linkName**
- StringBuffer **magic**
- StringBuffer **userName**
- StringBuffer **groupName**
- int **devMajor**
- int **devMinor**

Static Public Attributes

- static final int **NAMELEN** = 100
- static final int **MODELEN** = 8
- static final int **UIDLEN** = 8
- static final int **GIDLEN** = 8
- static final int **SIZELEN** = 12
- static final int **MODTIMELEN** = 12
- static final int **CHKSUMLEN** = 8
- static final byte **LF_OLDNORM** = 0
- static final byte **LF_NORMAL** = (byte) '0'
- static final byte **LF_LINK** = (byte) '1'
- static final byte **LF_SYMLINK** = (byte) '2'
- static final byte **LF_CHR** = (byte) '3'
- static final byte **LF_BLK** = (byte) '4'
- static final byte **LF_DIR** = (byte) '5'
- static final byte **LF_FIFO** = (byte) '6'
- static final byte **LF_CONTIG** = (byte) '7'
- static final int **MAGICLEN** = 8
- static final String **TMAGIC** = "ustar"
- static final String **GNU_TMAGIC** = "ustar "
- static final int **UNAMELEN** = 32
- static final int **GNAMELEN** = 32
- static final int **DEVLEN** = 8

6.74.1 Detailed Description

Header

Offset	Size	Field
0	100	File name
100	8	File mode
108	8	Owner's numeric user ID
116	8	Group's numeric user ID
124	12	File size in bytes
136	12	Last modification time in numeric Unix time format
148	8	Checksum for header block
156	1	Link indicator (file type)
157	100	Name of linked file

File Types

Value	Meaning
'0'	Normal file
(ASCII NUL)	Normal file (now obsolete)
'1'	Hard link
'2'	Symbolic link
'3'	Character special
'4'	Block special
'5'	Directory
'6'	FIFO
'7'	Contiguous

Ustar header

Offset	Size	Field
257	6	UStar indicator "ustar"
263	2	UStar version "00"
265	32	Owner user name
297	32	Owner group name
329	8	Device major number
337	8	Device minor number
345	155	Filename prefix

6.74.2 Member Function Documentation

6.74.2.1 `static int org::xeustechnologies::jtar::TarHeader::getNameBytes (StringBuffer name, byte[] buf, int offset, int length)` [*inline*, *static*]

Determine the number of bytes in an entry name.

Parameters

<i>name</i>	
<i>header</i>	The header buffer from which to parse.
<i>offset</i>	The offset into the buffer from which to parse.
<i>length</i>	The number of header bytes to parse.

Returns

The number of bytes in a header's entry name.

6.74.2.2 `static StringBuffer org::xeustechnologies::jtar::TarHeader::parseName (byte[] header,
int offset, int length) [inline, static]`

Parse an entry name from a header buffer.

Parameters

<i>name</i>	
<i>header</i>	The header buffer from which to parse.
<i>offset</i>	The offset into the buffer from which to parse.
<i>length</i>	The number of header bytes to parse.

Returns

The header's entry name.

6.74.3 Member Data Documentation

6.74.3.1 `final String org::xeustechnologies::jtar::TarHeader::GNU_TMAGIC = "ustar"
[static]`

The magic tag representing a GNU tar archive.

6.74.3.2 `final String org::xeustechnologies::jtar::TarHeader::TMAGIC = "ustar"
[static]`

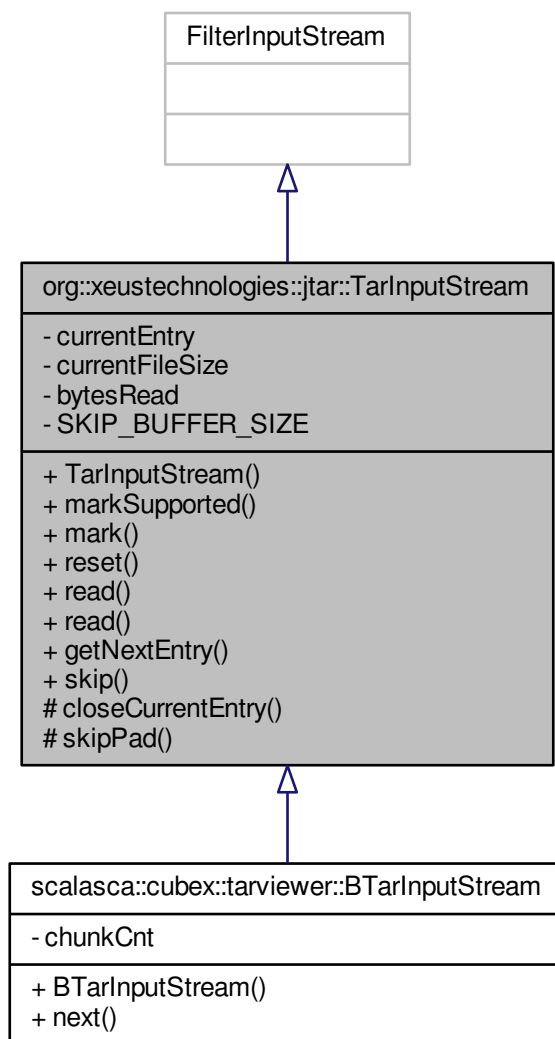
The magic tag representing a POSIX tar archive.

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

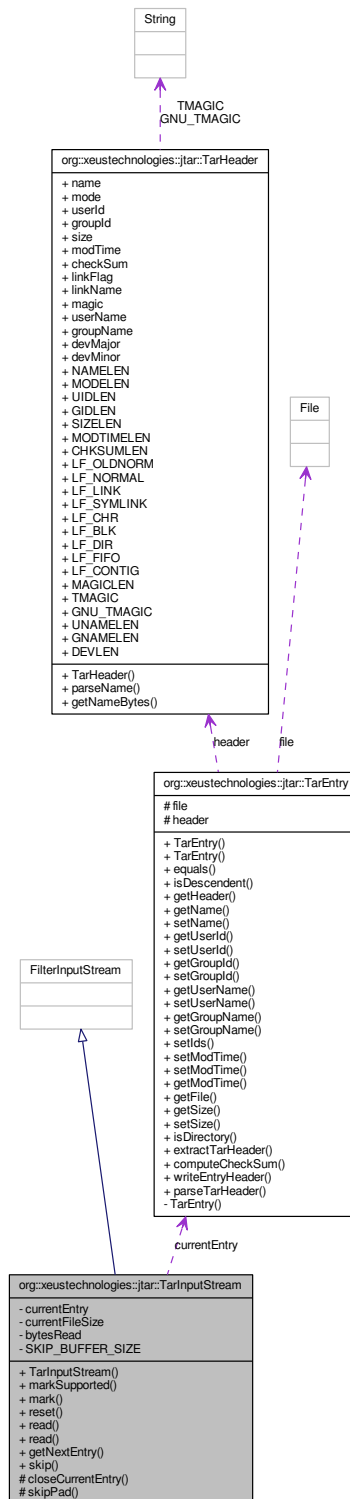
- src/jcuber/src/tarviewer/TarHeader.java

6.75 org::xeustechnologies::jtar::TarInputStream Class Reference

Inheritance diagram for org::xeustechnologies::jtar::TarInputStream:



Collaboration diagram for org::xeustechnologies::jtar::TarInputStream:



Public Member Functions

- **TarInputStream** (InputStream in)
- boolean **markSupported** ()
- synchronized void **mark** (int readlimit)
- synchronized void **reset** () throws IOException
- int **read** () throws IOException
- int **read** (byte[] b, int off, int len) throws IOException
- **TarEntry getNextEntry** () throws IOException
- long **skip** (long n) throws IOException

Protected Member Functions

- void **closeCurrentEntry** () throws IOException
- void **skipPad** () throws IOException

6.75.1 Detailed Description

Author

Kamran Zafar

6.75.2 Member Function Documentation

6.75.2.1 void org::xeustechnologies::jtar::TarInputStream::closeCurrentEntry () throws
IOException [inline, protected]

Closes the current tar entry

Exceptions

IOException

6.75.2.2 **TarEntry** org::xeustechnologies::jtar::TarInputStream::getNextEntry () throws
IOException [inline]

Returns the next entry in the tar file

Returns

TarEntry

Exceptions

IOException

6.75.2.3 `synchronized void org::xerotechnologies::jtar::TarInputStream::mark (int readlimit)`
[inline]

Not supported

6.75.2.4 `int org::xerotechnologies::jtar::TarInputStream::read ()` throws `IOException`
[inline]

Read a byte

See also

`java.io.FilterInputStream::read()`

6.75.2.5 `int org::xerotechnologies::jtar::TarInputStream::read (byte[] b, int off, int len)` throws `IOException`
[inline]

Checks if the bytes being read exceed the entry size and adjusts the byte array length.
Updates the byte counters

See also

`java.io.FilterInputStream::read(byte[], int, int)`

6.75.2.6 `synchronized void org::xerotechnologies::jtar::TarInputStream::reset ()` throws `IOException`
[inline]

Not supported

6.75.2.7 `long org::xerotechnologies::jtar::TarInputStream::skip (long n)` throws `IOException`
[inline]

Skips 'n' bytes on the InputStream

Overrides default implementation of skip

6.75.2.8 `void org::xerotechnologies::jtar::TarInputStream::skipPad ()` throws `IOException`
[inline, protected]

Skips the pad at the end of each tar entry file content

Exceptions

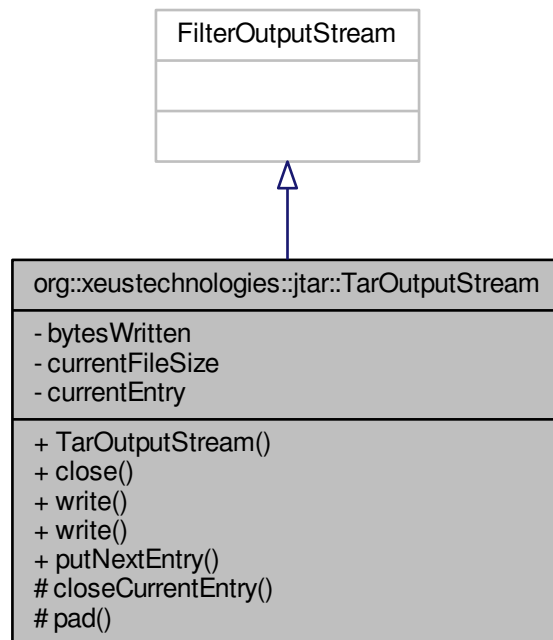
<i>IOException</i>

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

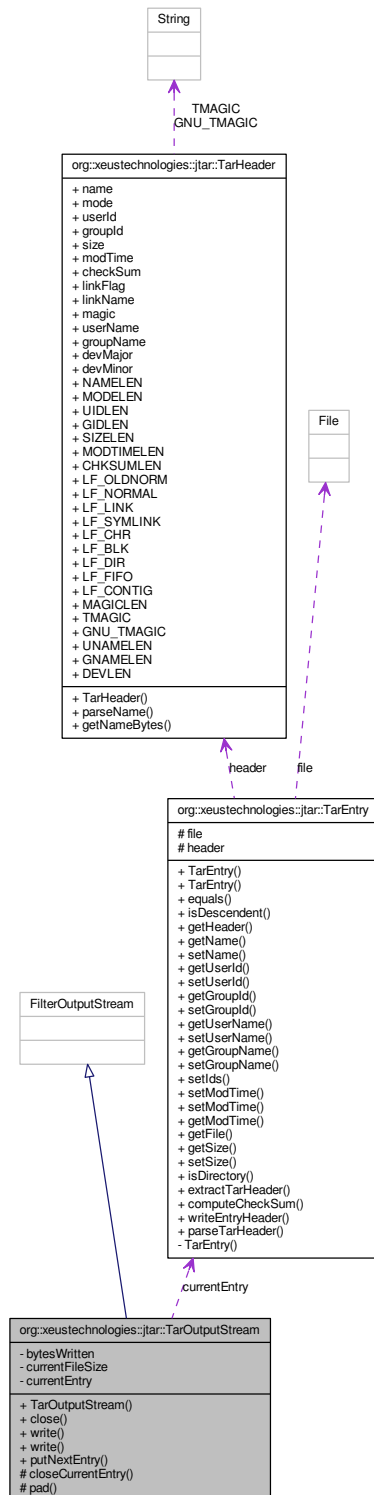
- `src/jcuber/src/tarviewer/TarInputStream.java`

6.76 `org::xeustechnologies::jtar::TarOutputStream` Class Reference

Inheritance diagram for `org::xeustechnologies::jtar::TarOutputStream`:



Collaboration diagram for org::xeustechnologies::jtar::TarOutputStream:



Public Member Functions

- **TarOutputStream** (OutputStream out)
- void [close](#) () throws IOException
- void [write](#) (int b) throws IOException
- void [write](#) (byte[] b, int off, int len) throws IOException
- void [putNextEntry](#) ([TarEntry](#) entry) throws IOException

Protected Member Functions

- void [closeCurrentEntry](#) () throws IOException
- void [pad](#) () throws IOException

6.76.1 Detailed Description

Author

Kamran Zafar

6.76.2 Member Function Documentation

6.76.2.1 void org::xeustechnologies::jtar::TarOutputStream::close () throws IOException
[inline]

Appends the EOF record and closes the stream

See also

java.io.FilterOutputStream::close()

6.76.2.2 void org::xeustechnologies::jtar::TarOutputStream::closeCurrentEntry () throws
IOException [inline, protected]

Closes the current tar entry

Exceptions

<i>IOException</i>

6.76.2.3 void org::xeustechnologies::jtar::TarOutputStream::pad () throws IOException
[inline, protected]

Pads the last content block

Exceptions

<i>IOException</i>	
--------------------	--

6.76.2.4 void org::xeustechnologies::jtar::TarOutputStream::putNextEntry (TarEntry entry)
throws IOException [inline]

Writes the next tar entry header on the stream

Parameters

entry	
-------	--

Exceptions

<i>IOException</i>	
--------------------	--

6.76.2.5 void org::xeustechnologies::jtar::TarOutputStream::write (byte[] b, int off, int len)
throws IOException [inline]

Checks if the bytes being written exceed the current entry size.

See also

java.io.FilterOutputStream::write(byte[], int, int)

6.76.2.6 void org::xeustechnologies::jtar::TarOutputStream::write (int b) throws IOException
[inline]

Writes a byte to the stream and updates byte counters

See also

java.io.FilterOutputStream::write(int)

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

- src/jcuber/src/tarviewer/TarOutputStream.java

6.77 org::xeustechnologies::jtar::TarUtils Class Reference

Static Public Member Functions

- static long [calculateTarSize](#) (File path)

6.77.1 Detailed Description

Author

Kamran

6.77.2 Member Function Documentation

6.77.2.1 `static long org::xeustechnologies::jtar::TarUtils::calculateTarSize (File path)`
`[inline, static]`

Determines the tar file size of the given folder/file path

Parameters

<i>path</i>	
-------------	--

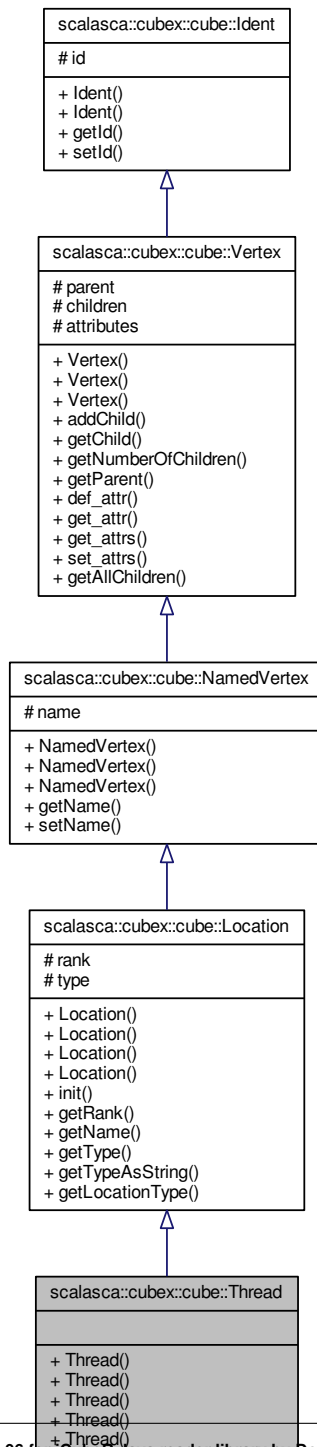
Returns

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

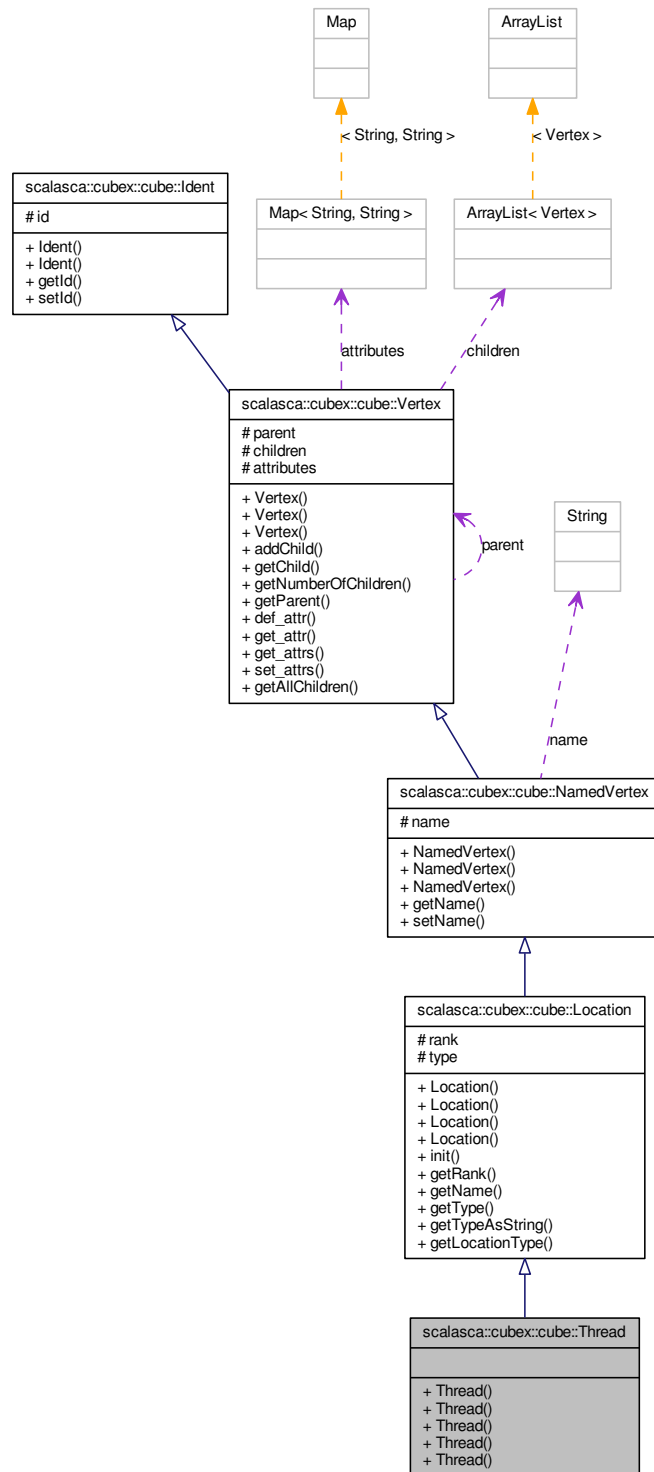
- `src/jcuber/src/tarviewer/TarUtils.java`

6.78 scalasca::cubex::cube::Thread Class Reference

Inheritance diagram for scalasca::cubex::cube::Thread:



Collaboration diagram for `scalasca::cubex::cube::Thread`:



Public Member Functions

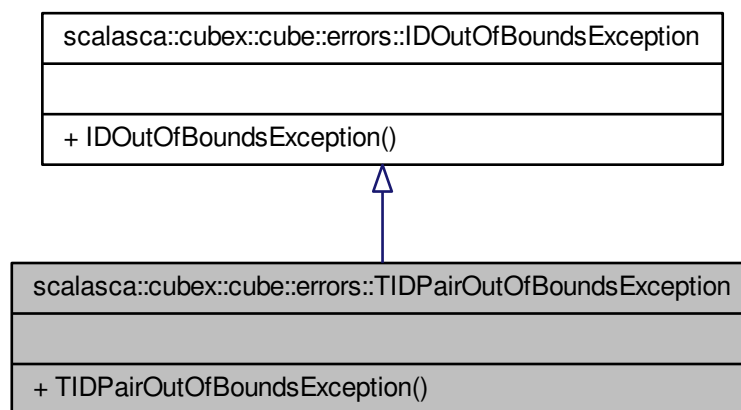
- **Thread** (int _id, [LocationGroup](#) _parent)
- **Thread** (int _id, long _rank, [LocationGroup](#) _parent)
- **Thread** (int _id, long _rank, String _name, [LocationGroup](#) _parent)
- **Thread** ([Location](#) _clone, [LocationGroup](#) _parent)

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

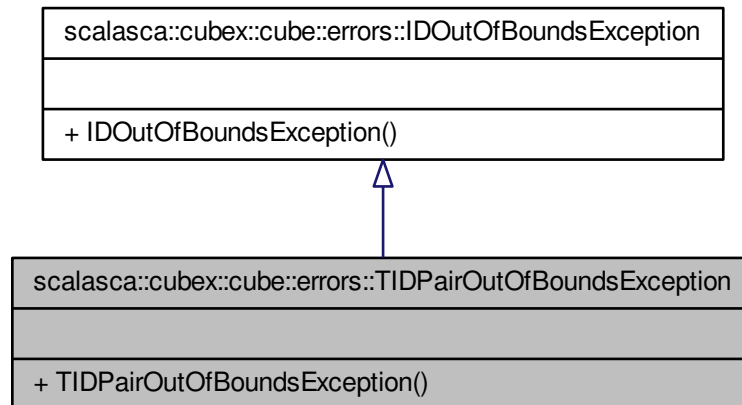
- src/jcuber/src/cube/Thread.java

6.79 scalasca::cubex::cube::errors::TIDPairOutOfBoundsException Class Reference

Inheritance diagram for scalasca::cubex::cube::errors::TIDPairOutOfBoundsException:



Collaboration diagram for scalasca::cubex::cube::errors::TIDPairOutOfBoundsException:



Public Member Functions

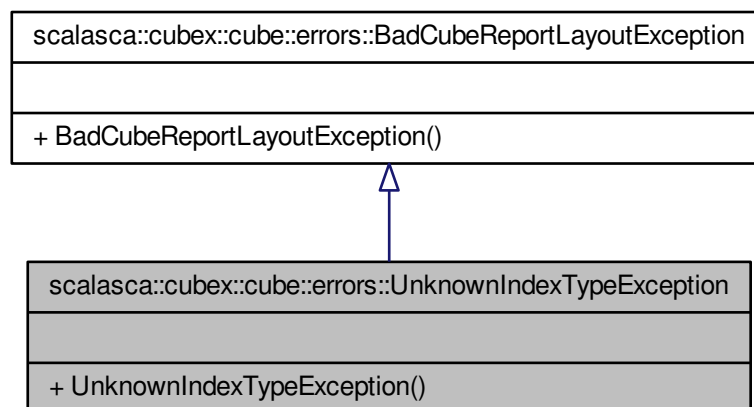
- **TIDPairOutOfBoundsException** (int tid, int ntid)

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

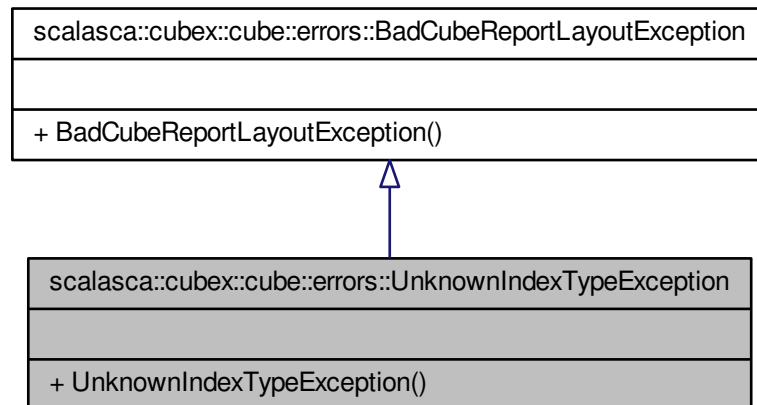
- `src/jcuber/src/cube/errors/TIDPairOutOfBoundsException.java`

6.80 scalasca::cubex::cube::errors::UnknownIndexTypeException Class Reference

Inheritance diagram for scalasca::cubex::cube::errors::UnknownIndexTypeException:



Collaboration diagram for scalasca::cubex::cube::errors::UnknownIndexTypeException:



Public Member Functions

- **UnknownIndexTypeException** (IndexType it)

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

- `src/jcuber/src/cube/errors/UnknownIndexTypeException.java`

6.81 `scalasca::cubex::cube::errors::UnknownMetricTypeException` Class Reference

Public Member Functions

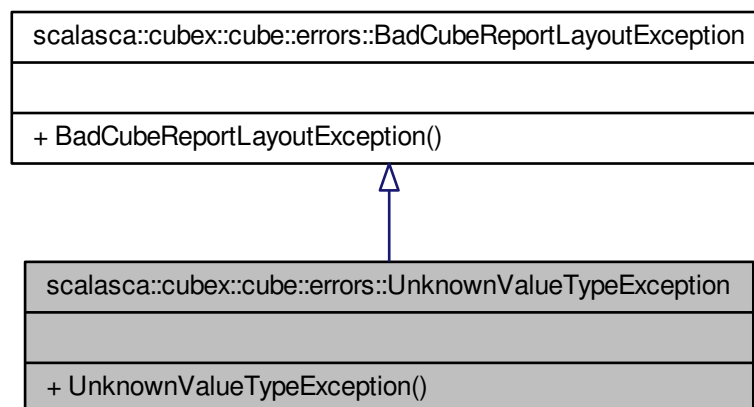
- **UnknownMetricTypeException** (MetricType metricType)

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

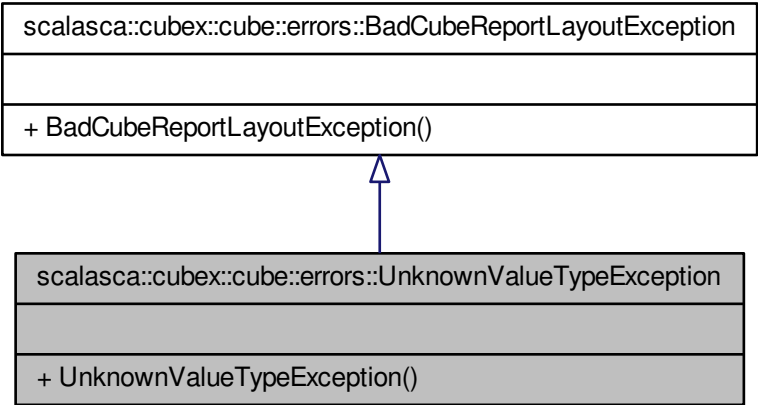
- `src/jcuber/src/cube/errors/UnknownMetricTypeException.java`

6.82 scalasca::cubex::cube::errors::UnknownValueTypeException Class Reference

Inheritance diagram for scalasca::cubex::cube::errors::UnknownValueTypeException:



Collaboration diagram for scalasca::cubex::cube::errors::UnknownValueTypeException:



Public Member Functions

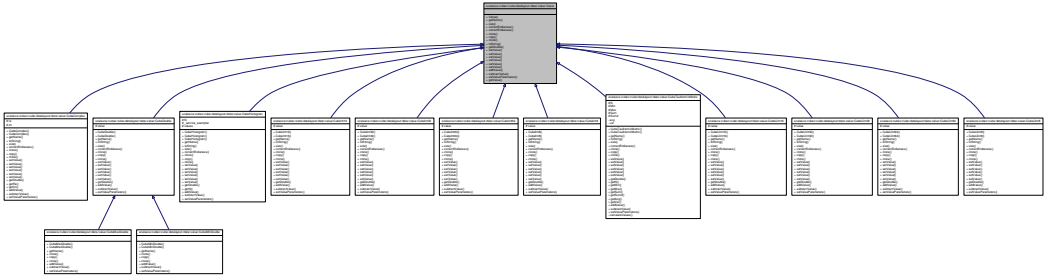
- **UnknownValueTypeException** (ValueType valueType)

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

- `src/jcuber/src/cube/errors/UnknownValueTypeException.java`

6.83 `scalasca::cubex::cube::datalayout::data::value::Value` Class Reference

Inheritance diagram for `scalasca::cubex::cube::datalayout::data::value::Value`:



Public Member Functions

- String **getName** ()
- abstract int **size** ()
- byte[] **correctEndianess** (byte[] bytes, Endianess endianess) throws Exception
- abstract void **correctEndianess** (Endianess _end, DataInputStream in, DataOutputStream out) throws IOException
- abstract Value **clone** ()
- abstract Value **copy** ()
 - > makes copy of itself with "0" value
- abstract Value **clone** (DataInputStream in) throws IOException
 - > makes copy of itself with "same value"
- abstract String **toString** ()
 - > makes copy of itself with value comming from DataStream as row of bytes
- abstract double **getDouble** ()
- abstract void **setValue** (String str)
- abstract void **setValue** (byte v)
- abstract void **setValue** (short v)
- abstract void **setValue** (int v)
- abstract void **setValue** (long v)
- abstract void **setValue** (double v)
- abstract void **addValue** (Value v)
- abstract void **subtractValue** (Value v)
- abstract void **setValueParameters** (Vector< Double > parameters) throws WrongNumberOfValueParametersException

Static Public Member Functions

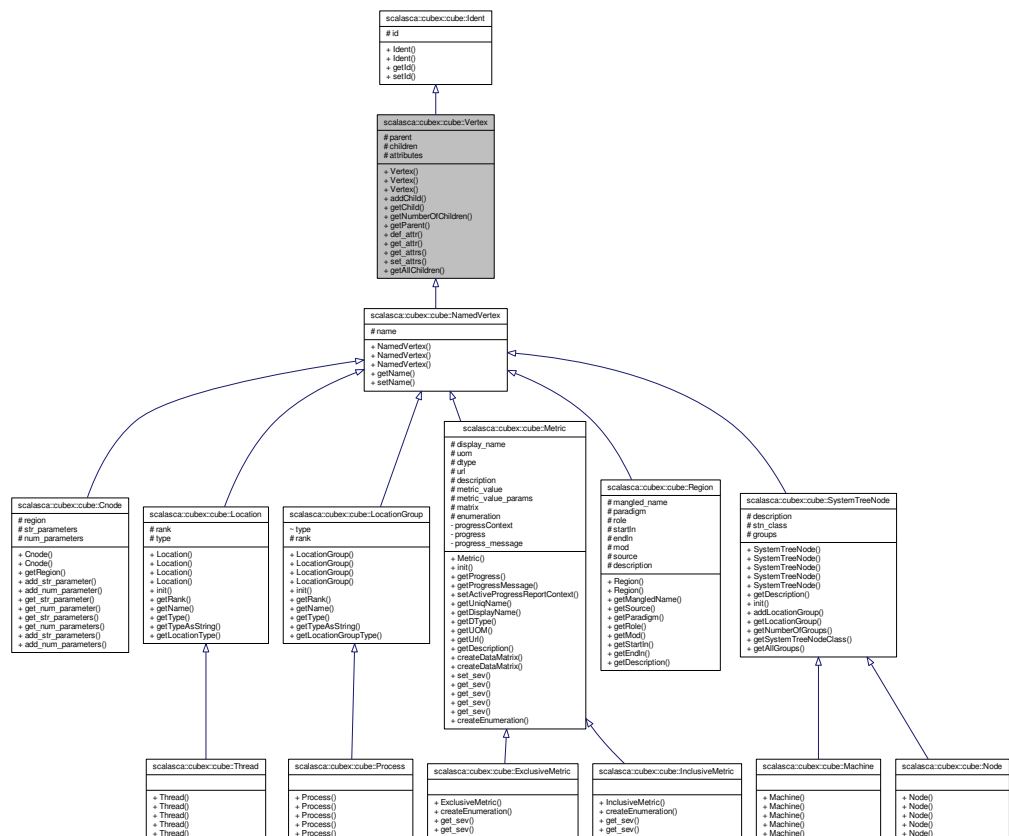
- static Value **getValue** (ValueType valueType) throws UnknownValueTypeException

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

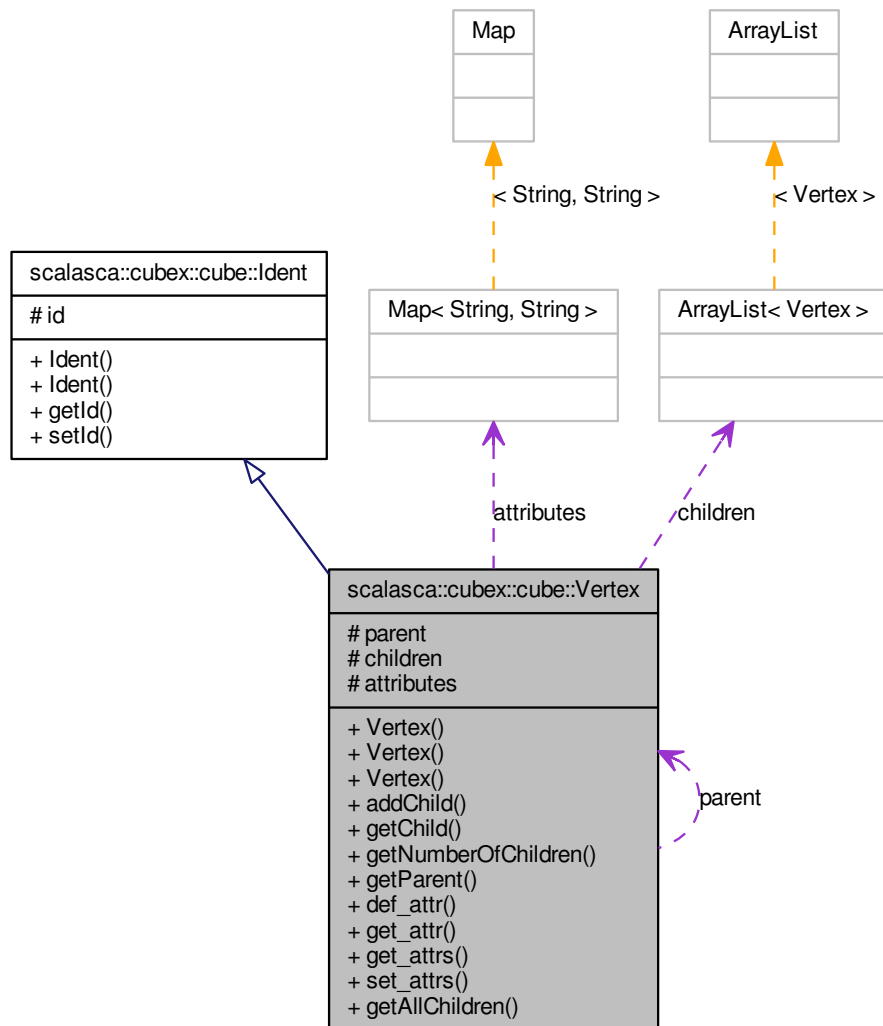
- `src/jcuber/src/cube/datalayout/data/value/Value.java`

6.84 scalasca::cubex::cube::Vertex Class Reference

Inheritance diagram for `scalasca::cubex::cube::Vertex`:



Collaboration diagram for scalasca::cubex::cube::Vertex:



Public Member Functions

- **Vertex** (int _id)
- **Vertex** (int _id, [Vertex](#) _parent)
- void **addChild** ([Vertex](#) _child)
- [Vertex](#) **getChild** (int idx)
- int **getNumberOfChildren** ()

- [Vertex](#) **getParent** ()
- void **def_attr** (String key, String value)
- String **get_attr** (String key)
- Map< String, String > **get_attrs** ()
- void **set_attrs** (Map< String, String > _attrs)
- ArrayList< [Vertex](#) > **getAllChildren** ()

Protected Attributes

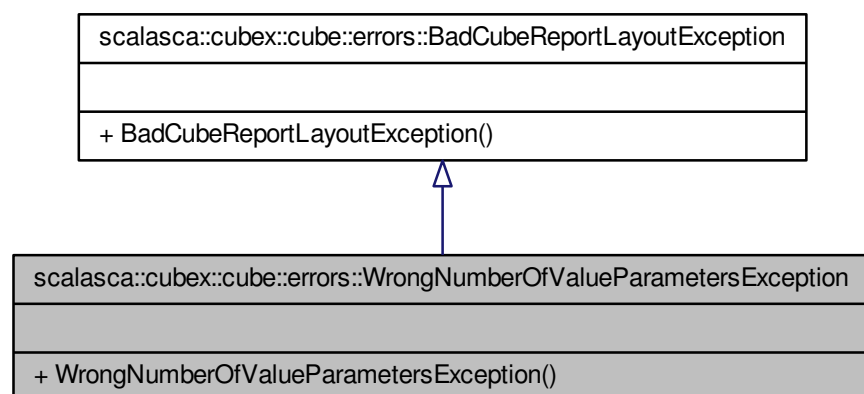
- [Vertex](#) **parent** = null
- ArrayList< [Vertex](#) > **children** = new ArrayList<[Vertex](#)> ()
- Map< String, String > **attributes** = new HashMap< String, String > ()

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

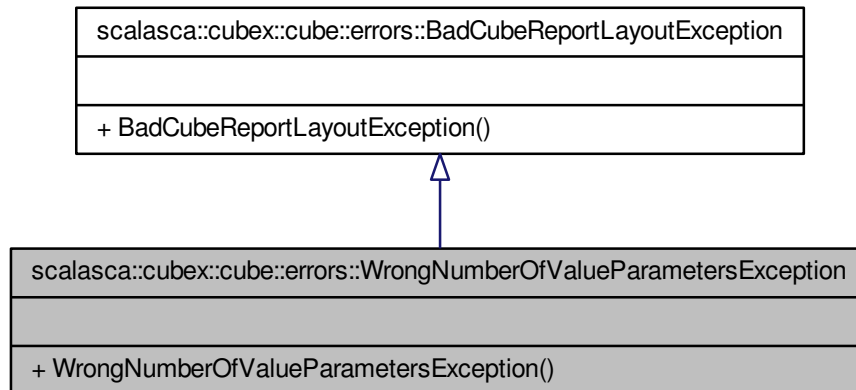
- src/jcuber/src/cube/Vertex.java

6.85 scalasca::cubex::cube::errors::WrongNumberOfValueParametersException Class Reference

Inheritance diagram for scalasca::cubex::cube::errors::WrongNumberOfValueParametersException:



Collaboration diagram for scalasca::cubex::cube::errors::WrongNumberOfValueParametersException:



Public Member Functions

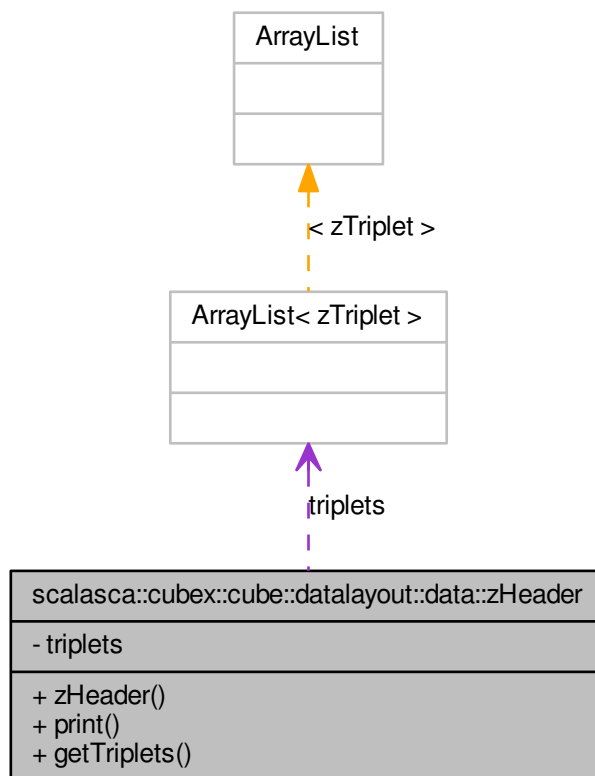
- **WrongNumberOfValueParametersException** (int is_number, int expect_number, String title)

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

- `src/jcuber/src/cube/errors/WrongNumberOfValueParametersException.java`

6.86 scalasca::cubex::cube::datalayout::data::zHeader Class Reference

Collaboration diagram for scalasca::cubex::cube::datalayout::data::zHeader:



Public Member Functions

- **zHeader** (DataInputStream in, Endianness _endianess) throws IOException
- void **print** ()
- ArrayList< [zTriplet](#) > **getTriplets** ()

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

- `src/jcuber/src/cube/datalayout/data/zHeader.java`

6.87 `scalasca::cubex::cube::datalayout::data::zTriplet` Class Reference

Public Member Functions

- **zTriplet** (long `_s_u`, long `_s_c`, long `_si_c`)
- String **toString** ()
- long **getUncompressedStart** ()
- long **getCompressedStart** ()
- long **getCompressedSize** ()

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

- `src/jcuber/src/cube/datalayout/data/zTriplet.java`

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