CHEMTABLE

Generated by Doxygen 1.6.1

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Contents

Chapter 1

Class Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Chapter 2

Class Index

2.1 Class List

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

Chapter 3

Class Documentation

3.1 convolute::_object Class Reference

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

- src/convolute.py

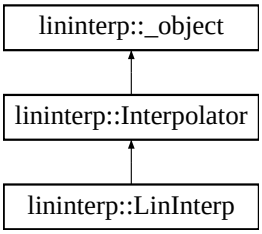
3.2 fittogrid::_object Class Reference

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

- src/fittogrid.py

3.3 lininterp::_object Class Reference

Inheritance diagram for lininterp::_object::

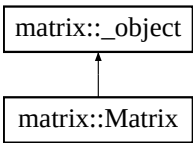


The documentation for this class was generated from the following file:

- src/lininterp.py

3.4 matrix::_object Class Reference

Inheritance diagram for matrix::_object::

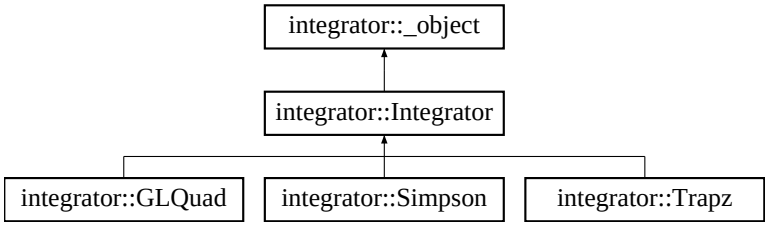


The documentation for this class was generated from the following file:

- src/matrix.py

3.5 integrator::_object Class Reference

Inheritance diagram for integrator::_object::

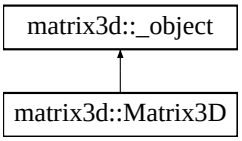


The documentation for this class was generated from the following file:

- src/integrator.py

3.6 matrix3d::_object Class Reference

Inheritance diagram for matrix3d::_object::

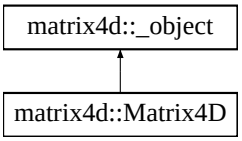


The documentation for this class was generated from the following file:

- src/matrix3d.py

3.7 matrix4d::_object Class Reference

Inheritance diagram for matrix4d::_object::

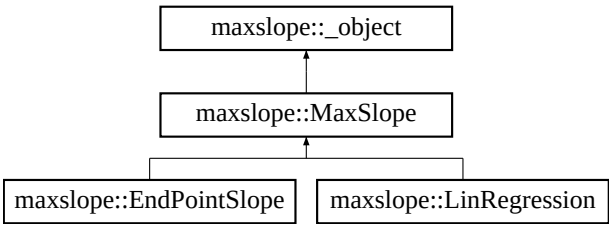


The documentation for this class was generated from the following file:

- src/matrix4d.py

3.8 maxslope::_object Class Reference

Inheritance diagram for maxslope::_object::

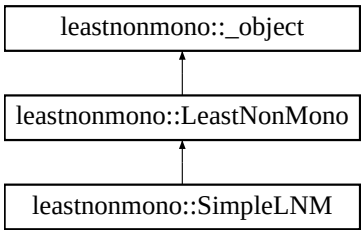


The documentation for this class was generated from the following file:

- src/maxslope.py

3.9 leastnonmono::_object Class Reference

Inheritance diagram for leastnonmono::_object::

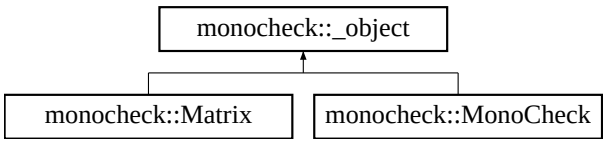


The documentation for this class was generated from the following file:

- src/leastnonmono.py

3.10 monocheck::_object Class Reference

Inheritance diagram for monocheck::_object::

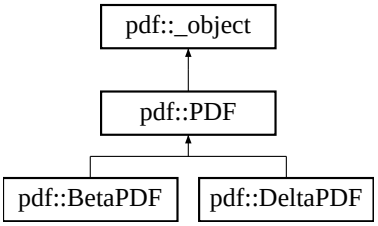


The documentation for this class was generated from the following file:

- src/monocheck.py

3.11 pdf::_object Class Reference

Inheritance diagram for pdf::_object::

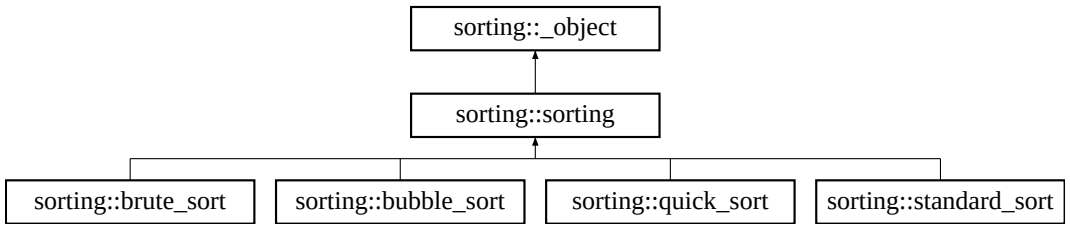


The documentation for this class was generated from the following file:

- src/pdf.py

3.12 sorting::_object Class Reference

Inheritance diagram for sorting::_object::

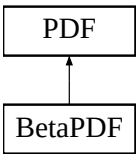


The documentation for this class was generated from the following file:

- src/sorting.py

3.13 BetaPDF Class Reference

Inheritance diagram for BetaPDF::



Public Member Functions

- **BetaPDF** (const double *Zmean, const int ZmeanPoints, const double *Zvar, const int ZvarPoints)
- int pdfVal (const double *Z, const int ZPoints, Matrix3D *pdfValM)

3.13.1 Member Function Documentation

3.13.1.1 int BetaPDF::pdfVal (const double * *Z*, const int *ZPoints*, Matrix3D * *pdfValM*) [virtual]

check for Min or Max mean

Delta PDF for zero variance

Impossible cases: becomes double delta PDF

BetaPDF

Middle points: 0 < n < ZPoints-1

Calculate integral at ends

Set PDF to output

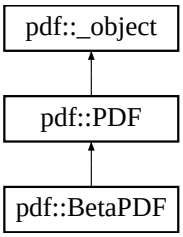
Implements PDF.

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

- src/betaPDF.h
- src/betaPDF.cc

3.14 pdf::BetaPDF Class Reference

Inheritance diagram for pdf::BetaPDF::



Public Member Functions

- def **__init__**
- def **pdfVal**

Public Attributes

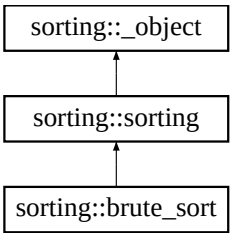
- **this**

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

- src/pdf.py

3.15 sorting::brute_sort Class Reference

Inheritance diagram for sorting::brute_sort::



Public Member Functions

- def **__init__**
- def **sort_data**
- def **SetRefColNum**
- def **extractRefCol**
- def **generateIndexArray**
- def **SetSortStartIndex**
- def **SetSortEndIndex**

Public Attributes

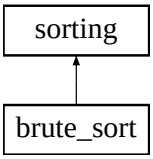
- **this**

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

- src/sorting.py

3.16 brute_sort Class Reference

Inheritance diagram for brute_sort::



Public Member Functions

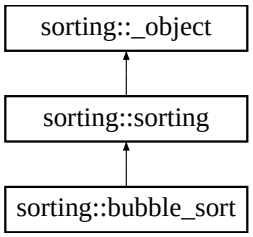
- **brute_sort** (Matrix *data)
- int **sort_data** ()
- void **SetRefColNum** (int num)
- int **extractRefCol** ()
- int **generateIndexArray** ()
- void **SetSortStartIndex** (int left)
- void **SetSortEndIndex** (int right)

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

- src/brute_sort.h
- src/brute_sort.cc

3.17 sorting::bubble_sort Class Reference

Inheritance diagram for sorting::bubble_sort::



Public Member Functions

- def **__init__**
- def **sort_data**
- def **SetRefColNum**
- def **extractRefCol**
- def **generateIndexArray**
- def **SetSortStartIndex**
- def **SetSortEndIndex**

Public Attributes

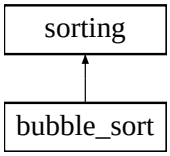
- **this**

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

- src/sorting.py

3.18 bubble_sort Class Reference

Inheritance diagram for bubble_sort::



Public Member Functions

- **bubble_sort** (Matrix *data)
- int **sort_data** ()
- void **SetRefColNum** (int num)
- int extractRefCol ()

  Extract the reference column.

- int generateIndexArray ()

  Generate the index array.

- void **SetSortStartIndex** (int left)
- void **SetSortEndIndex** (int right)

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

- src/bubble_sort.h
- src/bubble_sort.cc

3.19 CompVec Class Reference

Comparator for the sorting algorithm.

Public Member Functions

- **CompVec** (double *arr)
- bool **operator()** (size_t i, size_t j)

3.19.1 Detailed Description

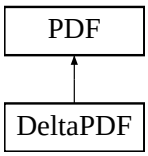
Comparator for the sorting algorithm.

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

- src/standard_sort.cc

3.20 DeltaPDF Class Reference

Inheritance diagram for DeltaPDF::



Public Member Functions

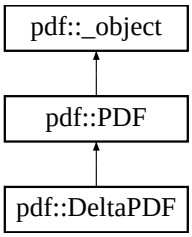
- **DeltaPDF** (const double *Zmean, const int ZmeanPoints)
- int **pdfVal** (const double *Z, const int ZPoints, Matrix3D *pdfValM)

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

- src/deltaPDF.h
- src/deltaPDF.cc

3.21 pdf::DeltaPDF Class Reference

Inheritance diagram for pdf::DeltaPDF::



Public Member Functions

- def **__init__**
- def **pdfVal**

Public Attributes

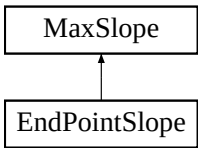
- **this**

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

- src/pdf.py

3.22 EndPointSlope Class Reference

Inheritance diagram for EndPointSlope::



Public Member Functions

- EndPointSlope (const Matrix &progVar)

  Constructor.

- ~EndPointSlope ()

  Destructor.

- int MostMonotonic (int *monoAry, const int ncols, const int col)

3.22.1 Member Function Documentation

3.22.1.1 int EndPointSlope::MostMonotonic (int * *monoAry*, const int *ncols*, const int *col*) [virtual]

MostMonotonic calculates the slope of the best linear approximation for each progress variable which is strictly increasing or strictly decreasing. The output array monoAry must be of length ncols, where each cell holds a value of 3 if C is strictly monotonic and has the largest slope, 2 if C is strictly monotonic but does not have the largest slope, and 0 for non-monotonic C. col is the reference column.

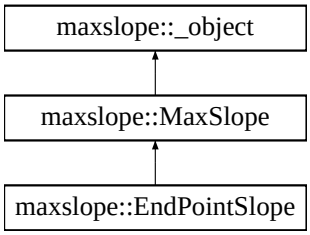
Implements MaxSlope.

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

- src/endpointslope.h
- src/endpointslope.cc

3.23 maxslope::EndPointSlope Class Reference

Inheritance diagram for maxslope::EndPointSlope::



Public Member Functions

- def **__init__**
- def **MostMonotonic**

Public Attributes

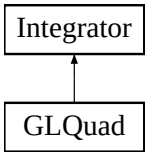
- **this**

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

- src/maxslope.py

3.24 GLQuad Class Reference

Inheritance diagram for GLQuad::



Public Member Functions

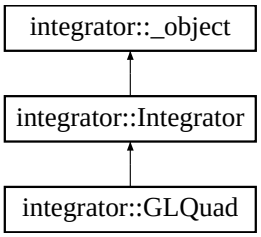
- **GLQuad** (int Nodes)
- double **integrate** (const double ∗integrand, const double ∗Z, const int ZPoints)

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

- src/glquad.h
- src/glquad.cc

3.25 integrator::GLQuad Class Reference

Inheritance diagram for integrator::GLQuad::



Public Member Functions

- def **__init__**
- def **integrate**

Public Attributes

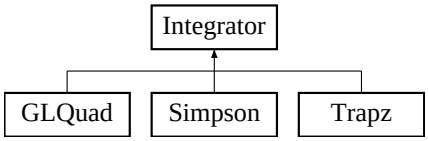
- **this**

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

- src/integrator.py

3.26 Integrator Class Reference

Inheritance diagram for Integrator::



Public Member Functions

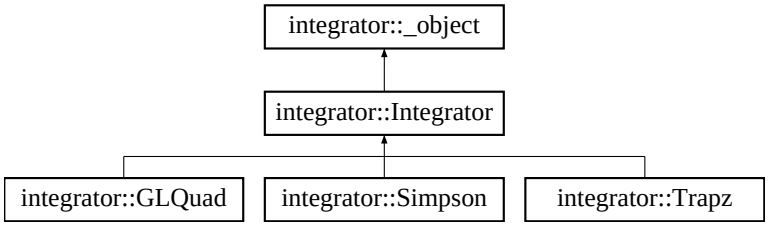
- virtual double **integrate** (const double ∗integrand, const double ∗Z, const int ZPoints)=0

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

- src/integrator.h

3.27 integrator::Integrator Class Reference

Inheritance diagram for integrator::Integrator::



Public Member Functions

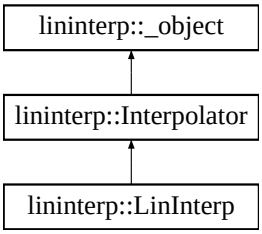
- def **__init__**
- def **integrate**

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

- src/integrator.py

3.28 lininterp::Interpolator Class Reference

Inheritance diagram for lininterp::Interpolator::



Public Member Functions

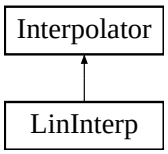
- def **__init__**
- def **Interp**

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

- src/lininterp.py

3.29 Interpolator Class Reference

Inheritance diagram for Interpolator::



Public Member Functions

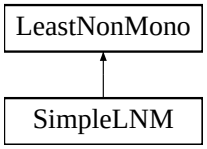
- virtual int **Interp** (const Matrix *matin, int col, double ival, double *vecout, int cols)=0

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

- src/interpolator.h

3.30 LeastNonMono Class Reference

Inheritance diagram for LeastNonMono::



Public Member Functions

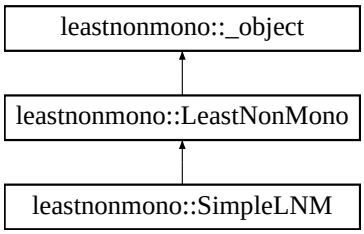
- virtual int **LeastNonMonotonic** (int ∗monoAry, const int ncols, const int col)=0

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

- src/leastnonmono.h

3.31 leastnonmono::LeastNonMono Class Reference

Inheritance diagram for leastnonmono::LeastNonMono::



Public Member Functions

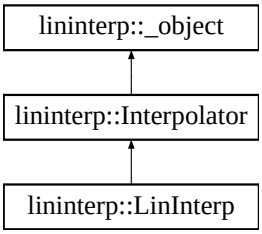
- def **__init__**
- def **LeastNonMonotonic**

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

- src/leastnonmono.py

3.32 lininterp::LinInterp Class Reference

Inheritance diagram for lininterp::LinInterp::



Public Member Functions

- def **__init__**
- def **Interp**

Public Attributes

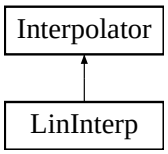
- **this**

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

- src/lininterp.py

3.33 LinInterp Class Reference

Inheritance diagram for LinInterp::



Public Member Functions

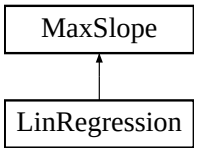
- int **Interp** (const Matrix *matin, int col, double ival, double *vecout, int cols)

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

- src/lininterp.h
- src/lininterp.cc

3.34 LinRegression Class Reference

Inheritance diagram for LinRegression::



Public Member Functions

- LinRegression (const Matrix &progVar)

  Constructor.

- ~LinRegression ()

  Destructor.

- int MostMonotonic (int *monoAry, const int ncols, const int col)

3.34.1 Member Function Documentation

3.34.1.1 int LinRegression::MostMonotonic (int * *monoAry*, const int *ncols*, const int *col*) [virtual]

MostMonotonic calculates the slope of the best linear approximation for each progress variable which is strictly increasing or strictly decreasing. The output array monoAry must be of length ncols, where each cell holds a value of 3 if C is strictly monotonic and has the largest slope, 2 if C is strictly monotonic but does not have the largest slope, and 0 for non-monotonic C. col is the reference column.

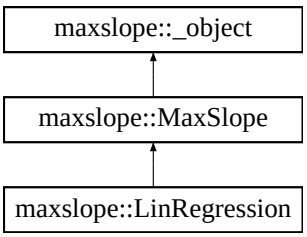
Implements MaxSlope.

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

- src/linregression.h
- src/linregression.cc

3.35 maxslope::LinRegression Class Reference

Inheritance diagram for maxslope::LinRegression::



Public Member Functions

- def **__init__**
- def **MostMonotonic**

Public Attributes

- **this**

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

- src/maxslope.py

3.36 Matrix Class Reference

Public Member Functions

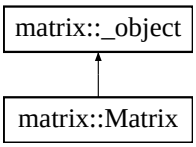
- Matrix (int rows, int cols)
  Constructor.
- ~Matrix ()
  Destructor.
- double GetVal (int i, int j) const
  Get the value at a specified index.
- void SetVal (int i, int j, double val)
  Set the value at a specific location.
- int GetNumRows () const
  Return the number of rows.
- int GetNumCols () const
  Return the number of columns.
- int GetCol (int j, double *colAry) const
  Return an array containing column j.

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

- src/matrix.h
- src/matrix.cc

3.37 matrix::Matrix Class Reference

Inheritance diagram for matrix::Matrix::



Public Member Functions

- def **__init__**
- def **GetVal**
- def **SetVal**
- def **GetNumRows**
- def **GetNumCols**
- def **GetCol**

Public Attributes

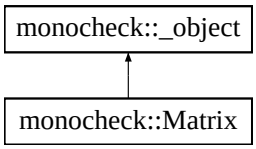
- **this**

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

- src/matrix.py

3.38 monocheck::Matrix Class Reference

Inheritance diagram for monocheck::Matrix::



Public Member Functions

- def **__init__**
- def **GetVal**
- def **SetVal**
- def **GetNumRows**
- def **GetNumCols**
- def **GetCol**

Public Attributes

- **this**

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

- src/monocheck.py

3.39 Matrix3D Class Reference

Public Member Functions

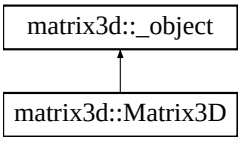
- Matrix3D (int dim1, int dim2, int dim3)
  Constructor.
- ~Matrix3D ()
  Destructor.
- double GetVal (int i, int j, int k) const
  Get the value at a specified index.
- void SetVal (int i, int j, int k, double vol)
  Set the value at a specified index.
- int GetNumDim1 () const
  Return dim1.
- int GetNumDim2 () const
  Return dim2.
- int GetNumDim3 () const
  Return dim3.

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

- src/matrix3d.h
- src/matrix3d.cc

3.40 matrix3d::Matrix3D Class Reference

Inheritance diagram for matrix3d::Matrix3D::



Public Member Functions

- def **__init__**
- def **GetVal**
- def **SetVal**
- def **GetNumDim1**
- def **GetNumDim2**
- def **GetNumDim3**

Public Attributes

- **this**

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

- src/matrix3d.py

3.41 Matrix4D Class Reference

Public Member Functions

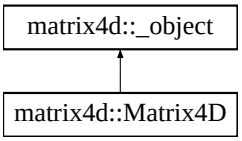
- Matrix4D (int dim1, int dim2, int dim3, int dim4)
  Constructor.
- ~Matrix4D ()
  Destructor.
- double GetVal (int i, int j, int k, int l) const
  Get the value at a specified index.
- void SetVal (int i, int j, int k, int l, double val)
  Set the value at a specified index.
- int GetNumDim1 () const
  Return dim1.
- int GetNumDim2 () const
  Return dim2.
- int GetNumDim3 () const
  Return dim3.
- int GetNumDim4 () const
  Return dim4.

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

- src/matrix4d.h
- src/matrix4d.cc

3.42 matrix4d::Matrix4D Class Reference

Inheritance diagram for matrix4d::Matrix4D::



Public Member Functions

- def **__init__**
- def **GetVal**
- def **SetVal**
- def **GetNumDim1**
- def **GetNumDim2**
- def **GetNumDim3**
- def **GetNumDim4**

Public Attributes

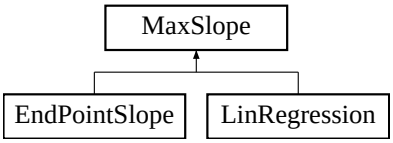
- **this**

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

- src/matrix4d.py

3.43 MaxSlope Class Reference

Inheritance diagram for MaxSlope::



Public Member Functions

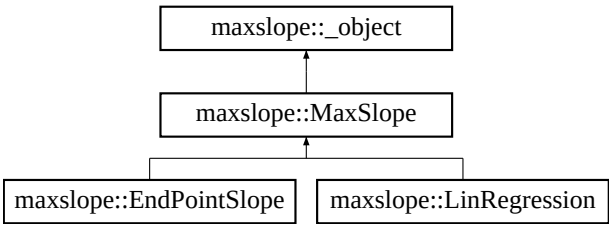
- virtual int **MostMonotonic** (int ∗monoAry, const int ncols, const int col)=0

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

- src/maxslope.h

3.44 maxslope::MaxSlope Class Reference

Inheritance diagram for maxslope::MaxSlope::



Public Member Functions

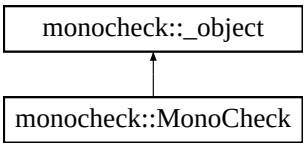
- def **__init__**
- def **MostMonotonic**

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

- src/maxslope.py

3.45 monocheck::MonoCheck Class Reference

Inheritance diagram for monocheck::MonoCheck::



Public Member Functions

- def **__init__**
- def **CheckStrictMonoticity**

Public Attributes

- **this**

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

- src/monocheck.py

3.46 MonoCheck Class Reference

Public Member Functions

- MonoCheck (const Matrix &progVar)

  Constructor.

- ~MonoCheck ()

  Destructor.

- int CheckStrictMonoticity (int *monoAry, const int ncols, int col)

3.46.1 Member Function Documentation

3.46.1.1 int MonoCheck::CheckStrictMonoticity (int * *monoAry*, const int *ncols*, int *col*)

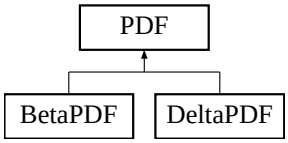
CheckStrictMonoticity checks the monotonicity of each column (AKA progress variable "C") in progVar with respect to column "col". The output array monoAry must be of length ncols_, where each cell holds a value of 3 if C is strictly increasing or strictly decreasing and 0 otherwise.

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

- src/monocheck.h
- src/monocheck.cc

3.47 PDF Class Reference

Inheritance diagram for PDF::



Public Member Functions

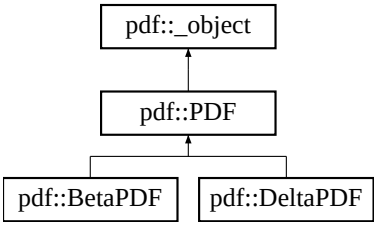
- virtual int **pdfVal** (const double *Z, const int ZPoints, Matrix3D *pdfValM)=0

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

- src/pdf.h

3.48 pdf::PDF Class Reference

Inheritance diagram for pdf::PDF::



Public Member Functions

- def **__init__**
- def **pdfVal**

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

- src/pdf.py

3.49 iofuncs::ProcFile Class Reference

Public Member Functions

- def **__init__**
- def **gettitles**
- def **interpolate**

3.49.1 Detailed Description

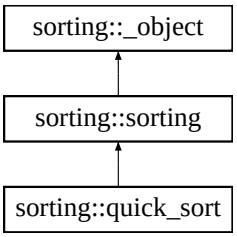
```
returns interpolated data (in datavec) from the given file
for the species given in inputvars. Also returns all column headers
from the datafile in titles
```

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

- python/iofuncs.py

3.50 sorting::quick_sort Class Reference

Inheritance diagram for sorting::quick_sort::



Public Member Functions

- def **__init__**
- def **sort_data**
- def **SetRefColNum**
- def **extractRefCol**
- def **generateIndexArray**
- def **SetSortStartIndex**
- def **SetSortEndIndex**

Public Attributes

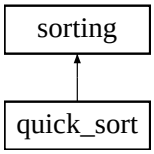
- **this**

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

- src/sorting.py

3.51 quick_sort Class Reference

Inheritance diagram for quick_sort::



Public Member Functions

- quick_sort (Matrix *data)
  Constructor.
- ~quick_sort ()
  Destructor.
- int sort_data ()
  Main sorting body.
- void SetRefColNum (int num)
  Set the reference column number.
- int extractRefCol ()
  Extract the reference column.
- int generateIndexArray ()
  Generate the index array.
- void SetSortStartIndex (int left)
  Setting the sort start index.
- void SetSortEndIndex (int right)
  Setting the sort end index.

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

- src/quick_sort.h
- src/quick_sort.cc

3.52 SequenceGen Class Reference

Sequence generator.

Public Member Functions

- **SequenceGen** (int start=0)
- int **operator()** ()

3.52.1 Detailed Description

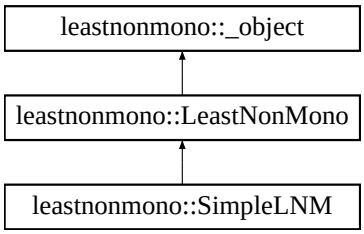
Sequence generator.

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

- src/standard_sort.cc

3.53 leastnonmono::SimpleLNM Class Reference

Inheritance diagram for leastnonmono::SimpleLNM::



Public Member Functions

- def **__init__**
- def **LeastNonMonotonic**

Public Attributes

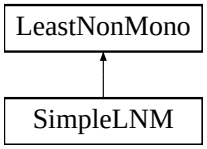
- **this**

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

- src/leastnonmono.py

3.54 SimpleLNM Class Reference

Inheritance diagram for SimpleLNM::



Public Member Functions

- SimpleLNM (const Matrix &progVar)
  Constructor.
- ~SimpleLNM ()
  Destructor.
- int LeastNonMonotonic (int *monoAry, const int ncols, const int col)

3.54.1 Member Function Documentation

3.54.1.1 int SimpleLNM::LeastNonMonotonic (int * *monoAry*, const int *ncols*, const int *col*) [virtual]

LeastNonMonotonic calculates how much each progress variable is strictly increasing and strictly decreasing. The input array monoAry will initially be filled with 0s since all progress variables are non-monotonic. This method will select the least non-monotonic and change its value in monoAry to 1. col is the reference column.

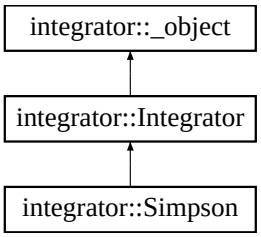
Implements LeastNonMono.

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

- src/simplelnm.h
- src/simplelnm.cc

3.55 integrator::Simpson Class Reference

Inheritance diagram for integrator::Simpson::



Public Member Functions

- def **__init__**
- def **integrate**

Public Attributes

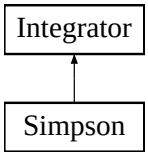
- **this**

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

- src/integrator.py

3.56 Simpson Class Reference

Inheritance diagram for Simpson::



Public Member Functions

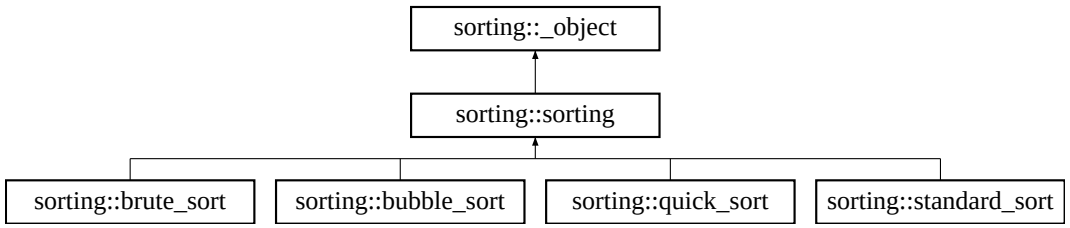
- double **integrate** (const double ∗integrand, const double ∗Z, const int ZPoints)

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

- src/simpson.h
- src/simpson.cc

3.57 sorting::sorting Class Reference

Inheritance diagram for sorting::sorting::



Public Member Functions

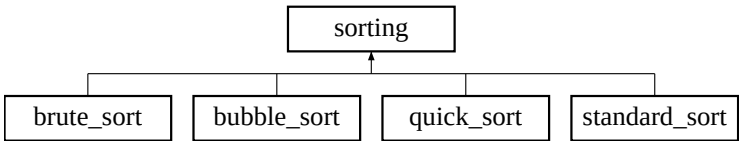
- def **__init__**
- def **sort_data**
- def **SetRefColNum**
- def **extractRefCol**
- def **generateIndexArray**
- def **SetSortStartIndex**
- def **SetSortEndIndex**

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

- src/sorting.py

3.58 sorting Class Reference

Inheritance diagram for sorting::



Classes

- class _object
- class brute_sort
- class bubble_sort
- class quick_sort
- class sorting
- class standard_sort

Public Member Functions

- virtual int **sort_data** ()=0
- virtual void **SetRefColNum** (int num)
- virtual int **extractRefCol** ()=0
- virtual int **generateIndexArray** ()=0
- virtual void **SetSortStartIndex** (int left)
- virtual void **SetSortEndIndex** (int right)

Public Attributes

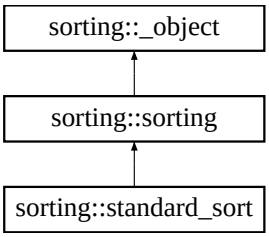
- **sorting_swigregister** = _sorting.sorting_swigregister
- **bubble_sort_swigregister** = _sorting.bubble_sort_swigregister
- **quick_sort_swigregister** = _sorting.quick_sort_swigregister
- **standard_sort_swigregister** = _sorting.standard_sort_swigregister
- **brute_sort_swigregister** = _sorting.brute_sort_swigregister

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

- src/sorting.h
- src/sorting.py

3.59 sorting::standard_sort Class Reference

Inheritance diagram for sorting::standard_sort::



Public Member Functions

- def **__init__**
- def **sort_data**
- def **SetRefColNum**
- def **extractRefCol**
- def **generateIndexArray**
- def **SetSortStartIndex**
- def **SetSortEndIndex**

Public Attributes

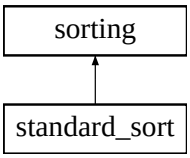
- **this**

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

- src/sorting.py

3.60 standard_sort Class Reference

Inheritance diagram for standard_sort::



Public Member Functions

- standard_sort (Matrix *data)
  Constructor.
- ~standard_sort ()
  Destructor.
- int sort_data ()
  Main sorting body.
- void SetRefColNum (int num)
  Set the reference column number.
- int **extractRefCol** ()
- int **generateIndexArray** ()
- void **SetSortStartIndex** (int left)
- void **SetSortEndIndex** (int right)

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

- src/standard_sort.h
- src/standard_sort.cc

3.61 swig_cast_info Struct Reference

Public Attributes

- swig_type_info * **type**
- swig_converter_func **converter**
- struct swig_cast_info * **next**
- struct swig_cast_info * **prev**

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

- src/convolute_wrap.cxx
- src/fittogrid_wrap.cxx
- src/integrator_wrap.cxx
- src/leastnonmono_wrap.cxx
- src/lininterp_wrap.cxx
- src/matrix3d_wrap.cxx
- src/matrix4d_wrap.cxx
- src/matrix_wrap.cxx
- src/maxslope_wrap.cxx
- src/monocheck_wrap.cxx
- src/pdf_wrap.cxx
- src/sorting_wrap.cxx

3.62 swig_const_info Struct Reference

Public Attributes

- int **type**
- char * **name**
- long **lvalue**
- double **dvalue**
- void * **pvalue**
- swig_type_info ** **ptype**

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

- src/convolute_wrap.cxx
- src/fittogrid_wrap.cxx
- src/integrator_wrap.cxx
- src/leastnonmono_wrap.cxx
- src/lininterp_wrap.cxx
- src/matrix3d_wrap.cxx
- src/matrix4d_wrap.cxx
- src/matrix_wrap.cxx
- src/maxslope_wrap.cxx
- src/monocheck_wrap.cxx
- src/pdf_wrap.cxx
- src/sorting_wrap.cxx

3.63 swig_globalvar Struct Reference

Public Attributes

- char ∗ **name**
- PyObject ∗(∗ **get_attr**)(void)
- int(∗ **set_attr**)(PyObject ∗)
- struct swig_globalvar ∗ **next**

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

- src/convolute_wrap.cxx
- src/fittogrid_wrap.cxx
- src/integrator_wrap.cxx
- src/leastnonmono_wrap.cxx
- src/lininterp_wrap.cxx
- src/matrix3d_wrap.cxx
- src/matrix4d_wrap.cxx
- src/matrix_wrap.cxx
- src/maxslope_wrap.cxx
- src/monocheck_wrap.cxx
- src/pdf_wrap.cxx
- src/sorting_wrap.cxx

3.64 swig_module_info Struct Reference

Public Attributes

- swig_type_info ** **types**
- size_t **size**
- struct swig_module_info * **next**
- swig_type_info ** **type_initial**
- swig_cast_info ** **cast_initial**
- void * **clientdata**

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

- src/convolute_wrap.cxx
- src/fittogrid_wrap.cxx
- src/integrator_wrap.cxx
- src/leastnonmono_wrap.cxx
- src/lininterp_wrap.cxx
- src/matrix3d_wrap.cxx
- src/matrix4d_wrap.cxx
- src/matrix_wrap.cxx
- src/maxslope_wrap.cxx
- src/monocheck_wrap.cxx
- src/pdf_wrap.cxx
- src/sorting_wrap.cxx

3.65 swig_type_info Struct Reference

Public Attributes

- const char * **name**
- const char * **str**
- swig_dycast_func **dcast**
- struct swig_cast_info * **cast**
- void * **clientdata**
- int **owndata**

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

- src/convolute_wrap.cxx
- src/fittogrid_wrap.cxx
- src/integrator_wrap.cxx
- src/leastnonmono_wrap.cxx
- src/lininterp_wrap.cxx
- src/matrix3d_wrap.cxx
- src/matrix4d_wrap.cxx
- src/matrix_wrap.cxx
- src/maxslope_wrap.cxx
- src/monocheck_wrap.cxx
- src/pdf_wrap.cxx
- src/sorting_wrap.cxx

3.66 swig_varlinkobject Struct Reference

Public Attributes

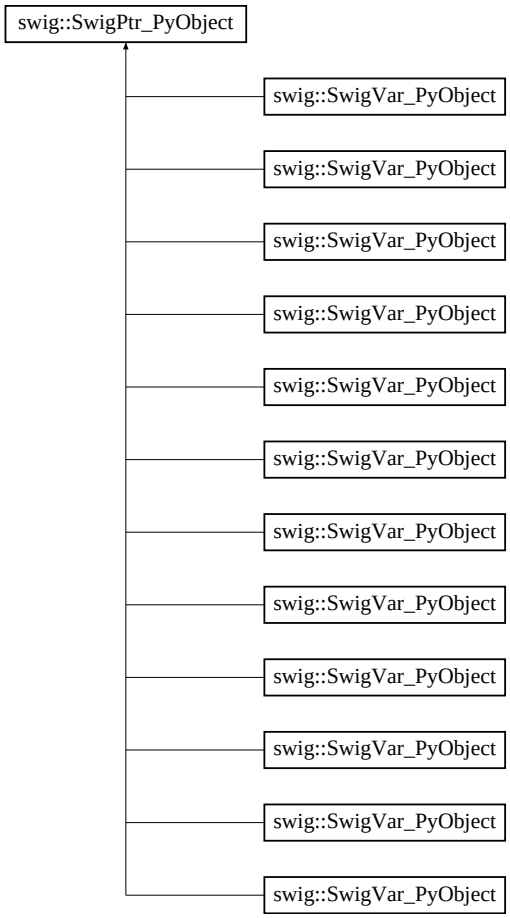
- PyObject_HEAD swig_globalvar * **vars**

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

- src/convolute_wrap.cxx
- src/fittogrid_wrap.cxx
- src/integrator_wrap.cxx
- src/leastnonmono_wrap.cxx
- src/lininterp_wrap.cxx
- src/matrix3d_wrap.cxx
- src/matrix4d_wrap.cxx
- src/matrix_wrap.cxx
- src/maxslope_wrap.cxx
- src/monocheck_wrap.cxx
- src/pdf_wrap.cxx
- src/sorting_wrap.cxx

3.67 swig::SwigPtr_PyObject Class Reference

Inheritance diagram for swig::SwigPtr_PyObject::



Public Member Functions

- **SwigPtr_PyObject** (const SwigPtr_PyObject &item)
- **SwigPtr_PyObject** (PyObject ∗obj, bool initial_ref=true)
- SwigPtr_PyObject & **operator=** (const SwigPtr_PyObject &item)
- **operator PyObject** ∗ () const
- PyObject ∗ **operator->** () const
- **SwigPtr_PyObject** (const SwigPtr_PyObject &item)
- **SwigPtr_PyObject** (PyObject ∗obj, bool initial_ref=true)
- SwigPtr_PyObject & **operator=** (const SwigPtr_PyObject &item)
- **operator PyObject** ∗ () const
- PyObject ∗ **operator->** () const
- **SwigPtr_PyObject** (const SwigPtr_PyObject &item)
- **SwigPtr_PyObject** (PyObject ∗obj, bool initial_ref=true)
- SwigPtr_PyObject & **operator=** (const SwigPtr_PyObject &item)
- **operator PyObject** ∗ () const
- PyObject ∗ **operator->** () const

- **SwigPtr_PyObject** (const SwigPtr_PyObject &item)
- **SwigPtr_PyObject** (PyObject *obj, bool initial_ref=true)
- SwigPtr_PyObject & **operator=** (const SwigPtr_PyObject &item)
- **operator PyObject** * () const
- PyObject * **operator->** () const
- **SwigPtr_PyObject** (const SwigPtr_PyObject &item)
- **SwigPtr_PyObject** (PyObject *obj, bool initial_ref=true)
- SwigPtr_PyObject & **operator=** (const SwigPtr_PyObject &item)
- **operator PyObject** * () const
- PyObject * **operator->** () const
- **SwigPtr_PyObject** (const SwigPtr_PyObject &item)
- **SwigPtr_PyObject** (PyObject *obj, bool initial_ref=true)
- SwigPtr_PyObject & **operator=** (const SwigPtr_PyObject &item)
- **operator PyObject** * () const
- PyObject * **operator->** () const
- **SwigPtr_PyObject** (const SwigPtr_PyObject &item)
- **SwigPtr_PyObject** (PyObject *obj, bool initial_ref=true)
- SwigPtr_PyObject & **operator=** (const SwigPtr_PyObject &item)
- **operator PyObject** * () const
- PyObject * **operator->** () const
- **SwigPtr_PyObject** (const SwigPtr_PyObject &item)
- **SwigPtr_PyObject** (PyObject *obj, bool initial_ref=true)
- SwigPtr_PyObject & **operator=** (const SwigPtr_PyObject &item)
- **operator PyObject** * () const
- PyObject * **operator->** () const
- **SwigPtr_PyObject** (const SwigPtr_PyObject &item)
- **SwigPtr_PyObject** (PyObject *obj, bool initial_ref=true)
- SwigPtr_PyObject & **operator=** (const SwigPtr_PyObject &item)
- **operator PyObject** * () const
- PyObject * **operator->** () const
- **SwigPtr_PyObject** (const SwigPtr_PyObject &item)
- **SwigPtr_PyObject** (PyObject *obj, bool initial_ref=true)
- SwigPtr_PyObject & **operator=** (const SwigPtr_PyObject &item)
- **operator PyObject** * () const
- PyObject * **operator->** () const
- **SwigPtr_PyObject** (const SwigPtr_PyObject &item)
- **SwigPtr_PyObject** (PyObject *obj, bool initial_ref=true)
- SwigPtr_PyObject & **operator=** (const SwigPtr_PyObject &item)
- **operator PyObject** * () const
- PyObject * **operator->** () const
- **SwigPtr_PyObject** (const SwigPtr_PyObject &item)
- **SwigPtr_PyObject** (PyObject *obj, bool initial_ref=true)
- SwigPtr_PyObject & **operator=** (const SwigPtr_PyObject &item)
- **operator PyObject** * () const
- PyObject * **operator->** () const

Protected Attributes

- PyObject ∗ **_obj**

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

- src/convolute_wrap.cxx
- src/fittogrid_wrap.cxx
- src/integrator_wrap.cxx
- src/leastnonmono_wrap.cxx
- src/lininterp_wrap.cxx
- src/matrix3d_wrap.cxx
- src/matrix4d_wrap.cxx
- src/matrix_wrap.cxx
- src/maxslope_wrap.cxx
- src/monocheck_wrap.cxx
- src/pdf_wrap.cxx
- src/sorting_wrap.cxx

3.68 SwigPyClientData Struct Reference

Public Attributes

- PyObject ∗ **klass**
- PyObject ∗ **newraw**
- PyObject ∗ **newargs**
- PyObject ∗ **destroy**
- int **delargs**
- int **implicitconv**

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

- src/convolute_wrap.cxx
- src/fittogrid_wrap.cxx
- src/integrator_wrap.cxx
- src/leastnonmono_wrap.cxx
- src/lininterp_wrap.cxx
- src/matrix3d_wrap.cxx
- src/matrix4d_wrap.cxx
- src/matrix_wrap.cxx
- src/maxslope_wrap.cxx
- src/monocheck_wrap.cxx
- src/pdf_wrap.cxx
- src/sorting_wrap.cxx

3.69 SwigPyObject Struct Reference

Public Attributes

- PyObject_HEAD void * **ptr**
- swig_type_info * **ty**
- int **own**
- PyObject * **next**

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

- src/convolute_wrap.cxx
- src/fittogrid_wrap.cxx
- src/integrator_wrap.cxx
- src/leastnonmono_wrap.cxx
- src/lininterp_wrap.cxx
- src/matrix3d_wrap.cxx
- src/matrix4d_wrap.cxx
- src/matrix_wrap.cxx
- src/maxslope_wrap.cxx
- src/monocheck_wrap.cxx
- src/pdf_wrap.cxx
- src/sorting_wrap.cxx

3.70 SwigPyPacked Struct Reference

Public Attributes

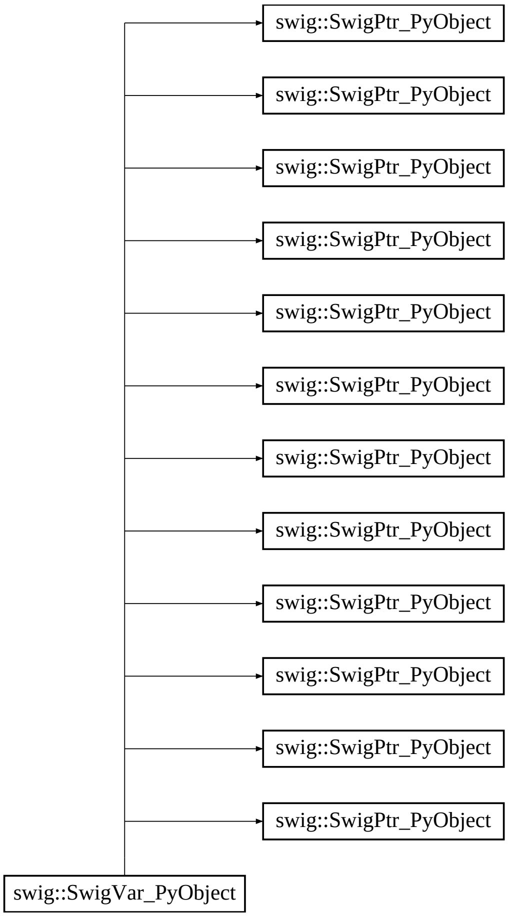
- PyObject_HEAD void * **pack**
- swig_type_info * **ty**
- size_t **size**

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

- src/convolute_wrap.cxx
- src/fittogrid_wrap.cxx
- src/integrator_wrap.cxx
- src/leastnonmono_wrap.cxx
- src/lininterp_wrap.cxx
- src/matrix3d_wrap.cxx
- src/matrix4d_wrap.cxx
- src/matrix_wrap.cxx
- src/maxslope_wrap.cxx
- src/monocheck_wrap.cxx
- src/pdf_wrap.cxx
- src/sorting_wrap.cxx

3.71 swig::SwigVar_PyObject Struct Reference

Inheritance diagram for swig::SwigVar_PyObject::



Public Member Functions

- **SwigVar_PyObject** (PyObject ∗obj=0)
- SwigVar_PyObject & **operator=** (PyObject ∗obj)
- **SwigVar_PyObject** (PyObject ∗obj=0)
- SwigVar_PyObject & **operator=** (PyObject ∗obj)
- **SwigVar_PyObject** (PyObject ∗obj=0)
- SwigVar_PyObject & **operator=** (PyObject ∗obj)
- **SwigVar_PyObject** (PyObject ∗obj=0)
- SwigVar_PyObject & **operator=** (PyObject ∗obj)
- **SwigVar_PyObject** (PyObject ∗obj=0)
- SwigVar_PyObject & **operator=** (PyObject ∗obj)
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- **SwigVar_PyObject** (PyObject ∗obj=0)
- SwigVar_PyObject & **operator=** (PyObject ∗obj)
- **SwigVar_PyObject** (PyObject ∗obj=0)

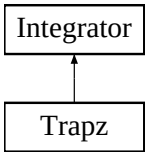
- SwigVar_PyObject & **operator=** (PyObject ∗obj)
- **SwigVar_PyObject** (PyObject ∗obj=0)
- SwigVar_PyObject & **operator=** (PyObject ∗obj)
- **SwigVar_PyObject** (PyObject ∗obj=0)
- SwigVar_PyObject & **operator=** (PyObject ∗obj)
- **SwigVar_PyObject** (PyObject ∗obj=0)
- SwigVar_PyObject & **operator=** (PyObject ∗obj)
- **SwigVar_PyObject** (PyObject ∗obj=0)
- SwigVar_PyObject & **operator=** (PyObject ∗obj)

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

- src/convolute_wrap.cxx
- src/fittogrid_wrap.cxx
- src/integrator_wrap.cxx
- src/leastnonmono_wrap.cxx
- src/lininterp_wrap.cxx
- src/matrix3d_wrap.cxx
- src/matrix4d_wrap.cxx
- src/matrix_wrap.cxx
- src/maxslope_wrap.cxx
- src/monocheck_wrap.cxx
- src/pdf_wrap.cxx
- src/sorting_wrap.cxx

3.72 Trapz Class Reference

Inheritance diagram for Trapz::



Public Member Functions

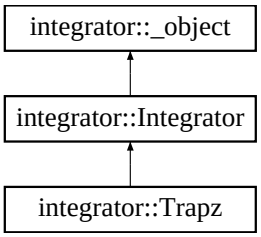
- double **integrate** (const double ∗integrand, const double ∗Z, const int ZPoints)

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

- src/trapz.h
- src/trapz.cc

3.73 integrator::Trapz Class Reference

Inheritance diagram for integrator::Trapz::



Public Member Functions

- def **__init__**
- def **integrate**

Public Attributes

- **this**

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

- src/integrator.py

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