

utils
1.0.0

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Chapter 1

Class Index

1.1 Class List

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

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Chapter 2

Class Documentation

2.1 cmdLineParser Class Reference

Public Member Functions

- **cmdLineParser** (int argc, char **argv)
- const std::string **registerOption** (std::string opt_name, std::string info_content)
- void **checkOption** ()
- void **displayOption** ()
- std::string **getOptionValue** (std::string opt_name)

2.1.1 Detailed Description

Definition at line 8 of file cmdLine.h.

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

- include/cmdLine.h

2.2 heap< T > Class Template Reference

Public Member Functions

- **heap** (T *start, T *end, int heap_mode)
- **heap** (int heap_mode)
- T **extract** ()
- bool **is_empty** ()
- void **push** (T val)
- void **print_heap** ()
- int **size** ()

Public Attributes

- T * **data**

2.2.1 Detailed Description

`template<class T>class heap< T >`

Definition at line 13 of file container.h.

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

- include/container.h

2.3 `item< T >` Struct Template Reference

Public Member Functions

- void **set** (int _id, T _val)
- bool **operator**< ([item](#) &x)
- bool **operator**> ([item](#) &x)
- bool **operator**== ([item](#) &x)
- T **operator*** (int x)

Public Attributes

- int **item_id**
- T **val**

2.3.1 Detailed Description

`template<class T>struct item< T >`

Definition at line 15 of file parallel.h.

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

- include/parallel.h

2.4 `m_random` Class Reference

Public Member Functions

- int **next_int** ()
- int **next_int** (int begin, int end)
- double **next_double** ()
- double **next_double** (double begin, double end)

Static Public Member Functions

- static [m_random](#) **getInstance** ()

2.4.1 Detailed Description

Definition at line 17 of file random.h.

2.4.2 Member Function Documentation

2.4.2.1 int m_random::next_int (int *begin*, int *end*) [inline]

return a random integer between *begin* and *end* ([*begin*, *end*))

Definition at line 37 of file random.h.

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

- include/random.h

2.5 m_timer Class Reference

Public Member Functions

- void **tic** ()
- void **tic** (char *msg)
- void **tic** (std::string msg)
- void **toc** ()
- void **toc** (char *msg)
- void **toc** (std::string msg)

2.5.1 Detailed Description

Definition at line 53 of file utils.h.

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

- include/utils.h

2.6 parallel_unit Struct Reference

Public Member Functions

- **parallel_unit** (int num_threads, int block_size)

Public Attributes

- unsigned long const **num_threads**
- unsigned long const **block_size**

2.6.1 Detailed Description

Definition at line 36 of file parallel.h.

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

- include/parallel.h

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