Exception

1.0.3

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Contents

1 Directory Hierarchy

1.1 Directories

This directory hierarchy is sorted roughly, but not completely, alphabetically:

Exception	2

2 Class Index

2.1 Class List

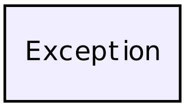
Here are the classes, structs, unions and interfaces with brief descriptions:

Exception	2

3 Directory Documentation

3.1 Exception/ Directory Reference

Directory dependency graph for Exception/:



Files

- file **Exception.cc**
- file **Exception.h**

4 Class Documentation

4.1 Exception Class Reference

```
#include <Exception.h>
```

Public Member Functions

- Exception ()
- **Exception** (const Exception &e)
- Exception (const string &arg)
- Exception & **operator=** (const Exception &rhs)
- deque< string >::const_iterator begin ()
- deque< string >::const_iterator end ()
- string get_message (void) const
- void set_message (const string &msg)
- void **set_rethrow_message** (const string &file, const int linenum)
- const char * **what** () const throw ()

Protected Member Functions

- virtual void print (ostream &os=cerr) const

Protected Attributes

- deque< string > **exception_queue**

Friends

- ostream & operator<< (ostream &os, Exception &a)
- ostream & operator<< (ostream &os, Exception ∗a)

4.1.1 Detailed Description

The class Exception, all the subclasses as defined by the user, are a form of conditions that a reasonable application might want to catch.

Definition at line 49 of file Exception.h.

4.1.2 Constructor & Destructor Documentation

4.1.2.1 Exception::Exception ( ) `[inline]`

Constructs an Exception with no specified detail message.

Definition at line 80 of file Exception.h.

4.1.2.2 Exception::Exception (const string & *arg*) `[inline]`

Constructs an Exception with a specified detail message.

Definition at line 90 of file Exception.h.

4.1.3 Member Function Documentation

4.1.3.1 deque<string>::const_iterator Exception::begin ( ) `[inline]`

Get the iterator pointing to the beginning of the dequeue.

Definition at line 100 of file Exception.h.

4.1.3.2 deque<string>::const_iterator Exception::end ( ) `[inline]`

Get the iterator pointing to the end of the dequeue.

Definition at line 107 of file Exception.h.

4.1.3.3 string Exception::get_message (void) const `[inline]`

Get the most current message

Definition at line 114 of file Exception.h.

4.1.3.4 void Exception::print (ostream & *os* = `cerr`) const `[protected, virtual]`

Prints this and its backtrace to the specified output stream.

Definition at line 43 of file Exception.cc.

4.1.3.5 void Exception::set_message (const string & *msg*)

Add a message.

Definition at line 48 of file Exception.cc.

4.1.4 Friends And Related Function Documentation

4.1.4.1 ostream& operator<< (ostream & *os,* Exception & *a*) `[friend]`

Prints this and its backtrace to the specified output stream.

Definition at line 55 of file Exception.h.

4.1.4.2 ostream& operator<< (ostream & *os,* Exception ∗ *a*) `[friend]`

Prints this and its backtrace to the specified output stream.

Definition at line 64 of file Exception.h.

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

- Exception.h
- Exception.cc

5 Example Documentation

5.1 test.cc

This is an example of how to use the Test class. More details about this example.

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