

tracefctxx

1.1.8

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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

File Index

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```


Chapter 3

Class Documentation

3.1 TraceFct Class Reference

```
#include <TraceFct.h>
```

Public Member Functions

- **TraceFct** (string &name)
- **TraceFct** (string name, bool print_it, int num_fct_to_print)
- **~TraceFct** ()

- **TraceFct** (const char *name)
Function entry constructor.

Static Public Member Functions

- static void **exit** (int exit_code, const string &msg)
- static void **die** (const string &msg)
- static void **message** (const string &msg)
- static void **println** (const string &msg)
- static void **dump_stack** (void)

Print the current function stack.

Exit

*These functions print an error message to `stderr` as well as the **tracefct** output stream (if different from `stderr`) and then exits the program with the supplied error code. The error message is passed in the same fashion as the arguments to `vprintf` or `sprintf`. The message may contain multiple output lines (i.e., multiple newline characters). If a trailing newline character is not specified, it will be appended.*

- static void `exit` (int exit_code, const char *format,...)
Exit a program, dumping the function stack.
- static void `exit` (int exit_code, Exception &ex)
Exit a program, dumping the function stack.
- static void `die` (const char *format,...)
Exit a program with error EXIT_FAILURE, dumping the function stack.
- static void `die` (Exception &ex)
Exit a program with error EXIT_FAILURE, dumping the function stack.

Messages

The `message` functions print a user supplied message to the `TraceFct` output stream, prefixed by the standard `TraceFct` style prefix string. Unlike `TraceFct::exit()`, a newline character is not appended to the message.

The `println` functions are similar, except that they ensure that a newline character is appended to the message.

- static void `message` (const char *format,...)
Print a formatted message to the `tracefct` output stream.
- static void `message` (Exception &ex)
Print a message to the `tracefct` output stream.
- static void `vmesssage` (const char *format, va_list args)
Print a formatted message to the `tracefct` output stream using a `stdargs` argument list.
- static void `println` (Exception &ex)
Print a message to the `tracefct` output stream.
- static void `println` (const char *msg)
Print a message to the `tracefct` output stream.

Output Stream manipulation

- static void `open` (const string &filename)
redirect the `tracefct` output stream
- static void `close` (void)
reset the `tracefct` output stream to `stderr`.

3.1.1 Detailed Description

The `TraceFct` Class

3.1.2 Constructor & Destructor Documentation

3.1.2.1 `TraceFct()`

```
TraceFct::TraceFct (
    const char * name )
```

Function entry constructor.

Parameters

| | |
|-------------|--------------------------|
| <i>name</i> | the name of the function |
|-------------|--------------------------|

This constructor is used when entering a function which should be registered.

3.1.2.2 ~TraceFct()

```
TraceFct::~TraceFct ( )
```

The destructor.

3.1.3 Member Function Documentation

3.1.3.1 close()

```
void TraceFct::close (
    void ) [static]
```

reset the `tracefct` output stream to `stderr`.

[close\(\)](#) resets the output stream to `stderr`, closing the file previously opened by [TraceFct::open\(\)](#).

3.1.3.2 die() [1/2]

```
void TraceFct::die (
    const char * format,
    ... ) [static]
```

Exit a program with error `EXIT_FAILURE`, dumping the function stack.

Parameters

| | |
|---------------|------------------------------|
| <i>format</i> | a printf style format string |
| ... | additional arguments |

3.1.3.3 die() [2/2]

```
void TraceFct::die (
```

```
Exception & ex ) [inline], [static]
```

Exit a program with error EXIT_FAILURE, dumping the function stack.

Parameters

| | |
|-----------|------------------------------|
| <i>ex</i> | The Exception Stack to print |
|-----------|------------------------------|

This version of the exit function will print out the passed `Exception` stack.

References `exit()`.

3.1.3.4 dump_stack()

```
void TraceFct::dump_stack (
    void ) [static]
```

Print the current function stack.

Parameters

| | |
|-------------|------------------------|
| <i>ostr</i> | the output file stream |
|-------------|------------------------|

This prints the current function stack to the [TraceFct](#) output stream

3.1.3.5 exit() [1/2]

```
void TraceFct::exit (
    int exit_code,
    const char * format,
    ... ) [static]
```

Exit a program, dumping the function stack.

Parameters

| | |
|------------------|--|
| <i>exit_code</i> | the exit code to be returned to the system |
| <i>format</i> | a printf style format string |
| ... | additional arguments |

Referenced by `die()`.

3.1.3.6 exit() [2/2]

```
void TraceFct::exit (
    int exit_code,
    Exception & ex ) [static]
```

Exit a program, dumping the function stack.

Parameters

| | |
|------------------|--|
| <i>exit_code</i> | the exit code to be returned to the system |
| <i>ex</i> | The Exception Stack to print |

This version of the exit function will print out the passed `Exception` stack.

3.1.3.7 message() [1/2]

```
void TraceFct::message (
    const char * format,
    ... ) [static]
```

Print a formatted message to the `tracefct` output stream.

Parameters

| | |
|---------------|------------------------------|
| <i>format</i> | a printf style format string |
| ... | additional arguments |

The message is passed in the same fashion as the arguments to `printf`, allowing formatted output.

3.1.3.8 message() [2/2]

```
static void TraceFct::message (
    Exception & ex ) [inline], [static]
```

Print a message to the `tracefct` output stream.

Parameters

| | |
|-----------|------------------------|
| <i>ex</i> | The exception to print |
|-----------|------------------------|

3.1.3.9 open()

```
void TraceFct::open (
    const string & filename ) [static]
```

redirect the `tracefct` output stream

Parameters

| | |
|-------------|--|
| <i>file</i> | the file to which messages are to be written |
|-------------|--|

`\open` serves to change the [TraceFct](#) output stream to the specified file. Normally [TraceFct](#) writes to `stderr`. [TraceFct::exit\(\)](#) *always* writes to `stderr`. To reset the output stream, see [TraceFct::close\(\)](#). If the current output stream is not `stderr`, it is automatically closed.

If the passed filename is the string `stderr`, [open\(\)](#) will use `stderr`.

Upon error, it writes and exit to `stderr` and exits.

3.1.3.10 println() [1/2]

```
static void TraceFct::println (
    Exception & ex ) [inline], [static]
```

Print a message to the `tracefct` output stream.

Parameters

| | |
|-----------|------------------------|
| <i>ex</i> | the exception to print |
|-----------|------------------------|

3.1.3.11 println() [2/2]

```
static void TraceFct::println (
    const char * msg ) [inline], [static]
```

Print a message to the `tracefct` output stream.

Parameters

| | |
|------------|--------------------|
| <i>msg</i> | a message to print |
|------------|--------------------|

3.1.3.12 vmessage()

```
void TraceFct::vmessage (
    const char * format,
    va_list args ) [static]
```

Print a formatted message to the `tracefct` output stream using a `stdargs` argument list.

Parameters

| | |
|---------------|---|
| <i>format</i> | a printf style string |
| <i>args</i> | The error message is passed in the same fashion as the arguments to <code>vprintf</code> . Note that <code>vmessage</code> expects a <code>va_list</code> to be passed, rather than a variable argument list. |

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

- [TraceFct.h](#)
- [TraceFct.cc](#)

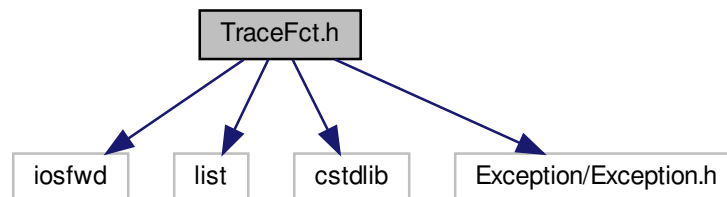
Chapter 4

File Documentation

4.1 TraceFct.h File Reference

```
#include <iosfwd>
#include <list>
#include <cstdlib>
#include <Exception/Exception.h>
```

Include dependency graph for TraceFct.h:



Classes

- class [TraceFct](#)

Macros

- #define **_tf_assert**(level, ex)
- #define **tf_assert**(ex) _tf_assert(990,ex)
if assertion is not true, generate a message and exit with an error code of 990.
- #define **tf_assert1**(ex)
- #define **tf_assert2**(ex)
- #define **tf_assert3**(ex)
- #define **tf_assert4**(ex)
- #define **tf_assert5**(ex)

4.1.1 Detailed Description

The class definitions

4.1.2 Macro Definition Documentation

4.1.2.1 `_tf_assert`

```
#define _tf_assert(  
    level,  
    ex )
```

Value:

```
do  
{  
    if (!(ex))  
        TraceFct::exit( level, "Assertion failed: file \"%s\", line %d\n%s\n", \  
            __FILE__, __LINE__, #ex);  
} while(0)
```

4.1.2.2 `tf_assert`

```
#define tf_assert(  
    ex ) _tf_assert(990,ex)
```

if *assertion* is not true, generate a message and exit with an error code of 990.

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