Pessum

1.0

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Chapter 1

Namespace Index

1.1 Namespace List

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

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Log namespace 3

Chapter 2

Namespace Documentation

2.1 pessum Namespace Reference

Pessum namespace.

Namespaces

- log

  Log namespace.

2.1.1 Detailed Description

Pessum namespace.

Base namespace for all pessum functions

2.2 pessum::log Namespace Reference

Log namespace.

Enumerations

- enum LogType {
  ERROR, WARNING, TRACE, DEBUG,
  SUCCESS, INFO, DATA, NONE }

  LogType enum.

Functions

- void Log (int type, std::string msg, std::string func)

  Log output member.
- std::pair< int, std::string > FGetLog (int type)

  Get log entry; full.
- std::string GetLog (int type)

  Get log entry.
- std::pair< int, std::string > IFGetLog (int index)

  Get log entry; full index.
- std::string IGetLog (int index)

  Get log entry; index.
- std::vector< std::pair< int, std::string > > VFGetLog (int start, int end)

  Get log entry; full vector.
- std::vector< std::string > VGetLog (int start, int end)

  Get log entry; vector.
- void SetLogHandle (void(*handle)(std::pair< int, std::string >))

  Set log handle full.
- void SetLogHandle (void(*handle)(std::string))

  Set log handle.
- std::string GetTypeStr (int type)

  Get type string from type int.
- void SaveLog (std::string file)

  Saves log entries to file.

Variables

- std::vector< std::pair< int, std::string > > global_logs
- void(* log_handle_full)(std::pair< int, std::string >) = NULL
- void(* log_handle)(std::string) = NULL

2.2.1 Detailed Description

Log namespace.

Namespace for all logging functionality in the pessum library.

2.2.2 Enumeration Type Documentation

2.2.2.1 LogType

```
enum pessum::log::LogType
```

LogType enum.

Enum of log types for different situations.

Enumerator

ERROR	Error log type
WARNING	Warning log type
TRACE	Trace log type, for finding position in the program
DEBUG	Debug log type, for final debuging
SUCCESS	Success log type
INFO	Info log type, for program information
DATA	Data log type, for data output
NONE	No log type

2.2.3 Function Documentation

2.2.3.1 FGetLog()

```
std::pair< int, std::string > pessum::log::FGetLog (
            int type )
```

Get log entry; full.

Gets last log entry of specified type with full information.

Parameters

type	The type of log entry to find

Returns

Pair of log type and formated string of log entry

See also

GetLog()

2.2.3.2 GetLog()

```
std::string pessum::log::GetLog (
            int type )
```

Get log entry.

Gets last log entry of specified type with formated string.

Parameters

type	The type of log entry to find

Returns

Formated string of log entery

See also

FGetLog()

2.2.3.3 GetTypeStr()

```
std::string pessum::log::GetTypeStr (
            int type )
```

Get type string from type int.

Determins the string corisponding to type int

Parameters

type	Type in to convert to string

Returns

String corisponding to type int

See also

LogType

2.2.3.4 IFGetLog()

```
std::pair< int, std::string > pessum::log::IFGetLog (
            int index )
```

Get log entry; full index.

Gets last log entry of specified index with full information.

Parameters

index	The log entry index from global_logs

Returns

Pair of log type and formated string of log entry

See also

IGetLog()

2.2.3.5 IGetLog()

```
std::string pessum::log::IGetLog (
            int index )
```

Get log entry; index.

Gets last log entry of specified index with full information.

Parameters

index	The log entry index from global_logs

Returns

Formated string of log entry

See also

IFGetLog()

2.2.3.6 Log()

```
void pessum::log::Log (
            int type,
            std::string msg,
            std::string func )
```

Log output member.

Function for all logging output. Log entry is saved to global_logs.

Parameters

type	The type of log entry
msg	Format string of log entry
func	The name of the function creating the log entry

See also

global_logs, GetLog()

2.2.3.7 SaveLog()

```
void pessum::log::SaveLog (
            std::string file )
```

Saves log entries to file.

Saves the log entries from global_log to specified file path

Parameters

file	Path to file to output to log, defaults to "output.log"

See also

global_logs

2.2.3.8 SetLogHandle() [1/2]

```
void pessum::log::SetLogHandle (
            void(*)(std::pair< int, std::string >) handle )
```

Set log handle full.

Sets log_handle_full with specified function pointer

Parameters

handle	Pointer to function with return of void and args of a pair of int and string

See also

log_handle_full

2.2.3.9 SetLogHandle() [2/2]

```
void pessum::log::SetLogHandle (
            void(*)(std::string) handle )
```

Set log handle.

Sets log_handle with specified function pointer

Parameters

handle	Pointer to function with return of void and args of a string

See also

log_handle_full

2.2.3.10 VFGetLog()

```
std::vector< std::pair< int, std::string > > pessum::log::VFGetLog (
            int start,
            int end )
```

Get log entry; full vector.

Gets a set of log entries between specified start and end index with full information.

Parameters

start	The first index value
end	The last index value

Returns

vector of pairs of log types and formated strings

See also

VGetLog()

2.2.3.11 VGetLog()

```
std::vector< std::string > pessum::log::VGetLog (
            int start,
            int end )
```

Get log entry; vector.

Gets a set of log entries between specified start and end index with formated string.

Parameters

start	The first index value
end	The last index value

Returns

vector of formated strings

See also

VFGetLog()

2.2.4 Variable Documentation

2.2.4.1 global_logs

```
std::vector< std::pair< int, std::string > > pessum::log::global_logs
```

Vector storing all previously called log outputs

2.2.4.2 log_handle

```
void(* pessum::log::log_handle)(std::string) = NULL
```

Pointer to funciton for handling logs with only formated string

2.2.4.3 log_handle_full

```
void(* pessum::log::log_handle_full)(std::pair< int, std::string >) = NULL
```

Pointer to function for handling log calls with full log information

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