# LittleBenchmark\_HDD 0.10.6

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# **Namespace Index**

1.1	Namespace	List
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Here is a list of all documented namespaces with brief descriptions:				
Hash				

Namespace Index

## **Class Index**

### 2.1 Class Hierarchy

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

profileUpdateStore	9
stats_keeper	C
tester_hdd	12
myThreadTemplates::thread_1 < ClassT >	13
$my Thread Templates:: thread\_1 < thread\_tester\_hdd < class T >> \dots $	13
$thread\_tester\_hdd < classT > \dots $	15
vector str	16

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## **Class Index**

### 3.1 Class List

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

profileUpdateStore	
stats_keeper	
tester_hdd	
myThreadTemplates::thread_1 < ClassT > (Thread_1 is very simple thread template which con-	
stainst few controle methods and entry for statistics )	
thread_tester_hdd< classT >	
vector str	

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## **Namespace Documentation**

### 4.1 Hash Namespace Reference

#### **Functions**

- std::string MD5 (const std::string &data)
- std::string SHA512 (const std::string &data)

#### 4.1.1 Detailed Description

Hash functions has been taken from http://nopaste.gamedev.pl/?id=5546

Namespace Documentation	Names	pace I	Oocum	entation
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### **Class Documentation**

### 5.1 profileUpdateStore Class Reference

#### **Public Member Functions**

- profileUpdateStore (string, string="")
- string GetstrVar ()
- string GetstrVal ()
- string GetIt ()

#### **Friends**

template<typename T >
 std::ostream & operator<< (T &Output, profileUpdateStore &w)</li>

- profileUpdateStore.hpp
- profileUpdateStore.cpp

### 5.2 stats\_keeper Class Reference

Inheritance diagram for stats\_keeper:



#### **Public Member Functions**

• stats\_keeper ()

Constractor set all args with default values.

- void addStatData (string \*, string \*, unsigned=0, unsigned=0) Will add data to specified buffers.
- void FormatDataInVector ()
- void **SaveToDisk** (boost::filesystem::path)
- string GeneratDataFromVector ()

Return refernce to string value generated from vector.

• string GenerateXMLFromVector ()

#### **Protected Member Functions**

• void setArgs ()

Set Args determinates functionality.

#### **Protected Attributes**

- vector< string > \* p\_vecstr\_Log
   keep log output in vector
- vector< vector\_str > \* p\_vecstr\_formattedTXT
   keep data in vector
- bool bGenXML

Generate xml.

• bool bLog

To log.

• bool bFormattedTxt

Generate formatted txt.

- unsigned uiMultiplySpacer

  Multiply spacer.
- unsigned uiMaxCols

  Max columns.
- string strSpacerChar spacer character

- stats\_keeper.hpp
- stats\_keeper.cpp

#### 5.3 tester\_hdd Class Reference

Inheritance diagram for tester\_hdd:



#### **Public Member Functions**

- tester\_hdd (int, char \*\*)
- void Run ()

#### **Public Attributes**

• bool bRun

#### **5.3.1** Constructor & Destructor Documentation

#### 5.3.1.1 tester\_hdd::tester\_hdd (int ac, char \*\* av)

Important notes for Linux: \* In file /etc/nsswitch.conf change passwd compat to passwd file in order to prevent memory leak

Creates user profile before parsing args

Number of columns

Set output args

#### **5.3.2** Member Function Documentation

#### 5.3.2.1 void tester\_hdd::Run ()

Create threads and insert it to list

Running threads from list

If multithreading is disable program will wait for thread to do its job before running next one

With multithreading wating for all started threads to end its jobs

- tester\_hdd.hpp
- tester\_hdd.cpp

## **5.4** myThreadTemplates::thread\_1< ClassT > Class Template Reference

Thread\_1 is very simple thread template which constainst few controle methods and entry for statistics.

```
#include <myThreadTemplates.hpp>
```

#### **Public Member Functions**

- **thread\_1** (ClassT \*parent, list< string \* > \*list=NULL, bool show=false)
- void start ()
- void start\_self\_test ()
- void join ()
- void join (unsigned val)
- string **GetThreadID** ()
- void UpdateStats (string \*str)
- virtual ~thread\_1 ()

#### **Static Public Member Functions**

- static void self\_test ()
- static void Execute\_ (ClassT \*p)

#### **5.4.1 Detailed Description**

 $template < class \ Class \ T > class \ my Thread Templates :: thread\_1 < Class \ T >$ 

Thread\_1 is very simple thread template which constainst few controle methods and entry for statistics.

#### **5.4.2** Constructor & Destructor Documentation

### 5.4.2.1 template < class ClassT > virtual myThreadTemplates::thread\_1 < ClassT >::~thread\_1 () [inline, virtual]

Virtual destructor which can show time of execution

#### **5.4.3** Member Function Documentation

5.4.3.1 template < class Class T > static void myThreadTemplates::thread\_1 < Class T >::Execute\_ (Class T \* p) [inline, static]

Static linker for dynamic method

### 5.4.3.2 template<class ClassT> void myThreadTemplates::thread\_1< ClassT>::join (unsigned val) [inline]

Join thread after specified time in seconds

 $\textbf{5.4.3.3} \quad \textbf{template} < \textbf{class} \ \textbf{Class} \ \textbf{T} > \textbf{void} \ \textbf{myThreadTemplates::thread} \ \underline{\textbf{1}} < \ \textbf{Class} \ \textbf{T} > \textbf{::join} \ () \\ [\texttt{inline}]$ 

Join thread

5.4.3.4 template < class Class T > static void myThreadTemplates::thread\_1 < Class T >::self\_test () [inline, static]

This method is only for test purpose!

5.4.3.5 template<class ClassT> void myThreadTemplates::thread\_1< ClassT >::start () [inline]

Creates Thread and links it dynamic using static method

 $\textbf{5.4.3.6} \quad template < class \ Class \ T > void \ myThread \ Templates::thread\_1 < Class \ T > ::start\_self\_test \ () \\ \quad [inline]$ 

This method is only for test purpose!

5.4.3.7 template < class T> void myThreadTemplates::thread\_1< Class T>::UpdateStats (string \* str) [inline]

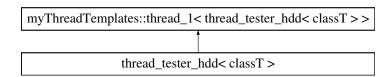
Push statistic information

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

• myThreadTemplates.hpp

#### 5.5 thread\_tester\_hdd< classT > Class Template Reference

Inheritance diagram for thread\_tester\_hdd< classT >:



#### **Public Member Functions**

- **thread\_tester\_hdd** (vector< unsigned > &, boost::filesystem::path &, unsigned &, unsigned &, unsigned &, unsigned &, bool, classT \*)
- thread\_tester\_hdd (classT \*)
- void **setNewData** (vector< unsigned > &, boost::filesystem::path &)
- void **setBuffer** (const unsigned \*)
- string & getSummary ()
- void Execute ()

template < class T > class thread\_tester\_hdd < classT >

#### **5.5.1** Member Function Documentation

#### 5.5.1.1 template < class T > void thread\_tester\_hdd < class T >::Execute () [inline]

Write test

Both read test

Cleaning after rw tests

Write test

Both read test

Cleaning after rw tests

Write test

Cleaning after rw tests

- thread\_tester\_hdd.hpp
- thread\_tester\_hdd.cpp

### 5.6 vector\_str Struct Reference

#### **Public Member Functions**

• **vector\_str** (unsigned &)

#### **Public Attributes**

• vector< string > data

- stats\_keeper.hpp
- stats\_keeper.cpp

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