LittleBenchmark_HDD

0.10.6

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Contents

Chapter 1

Class Index

1.1 Class Hierarchy

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

Chapter 2

Class Index

2.1 Class List

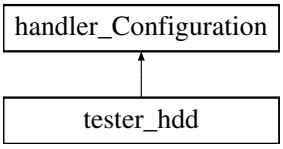
Here are the classes, structs, unions and interfaces with brief descriptions:

Chapter 3

Class Documentation

3.1 handler_Configuration Class Reference

Inheritance diagram for handler_Configuration:



Public Member Functions

- void setUserDir ()
- void **addNodeToStored** (string, string)
- void **clearNodes** ()
- void **parseConfigs** ()
- void **saveConfigs** ()

Protected Attributes

- boost::filesystem::path pathProfile

  Keeps path to config file.

- boost::filesystem::path pathConfig

  Keeps path to config file.

- bool **bLetUpdate**

3.1.1 Member Function Documentation

3.1.1.1 void handler_Configuration::setUserDir ()

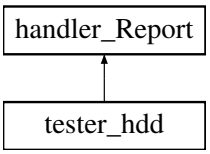
Creates program profile directory for current user

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

- handler_Configuration.hpp
- handler_Configuration.cpp

3.2 handler_Report Class Reference

Inheritance diagram for handler_Report:



Public Member Functions

- handler_Report ()
  Constractor set all args with default values.
- void addStatData (string &, string &, const unsigned &, const unsigned &)
  Will add data to specified buffers.
- uint8_t **findAndAdd** (string &, string &, unsigned &, unsigned &)
- 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< structRow > * p_vecstr_formattedTXT
  keep data in vector
- boost::filesystem::path pathReport
  Keeps path to report file.
- string strReportFile
  File to report will be written.
- bool bLog
  To log.

- bool bFormattedTxt

  Generate formatted txt.

- bool bGenXML

  Generate xml.

- unsigned uiMultiplySpacer

  Multiply spacer.

- unsigned uiMaxCols

  Max columns.

- string strSpacerChar

  spacer character

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

- handler_Report.hpp
- handler_Report.cpp

3.3 profileNode Struct Reference

Public Member Functions

- **profileNode** (string &, string &)
- string **getData** ()

Public Attributes

- string **strVar**
- string **strVal**

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

- handler_Configuration.hpp
- handler_Configuration.cpp

3.4 structRow Struct Reference

Public Member Functions

- structRow (unsigned &)

Public Attributes

- vector< string > data
  Row.

3.4.1 Constructor & Destructor Documentation

3.4.1.1 structRow::structRow (unsigned & *col*)

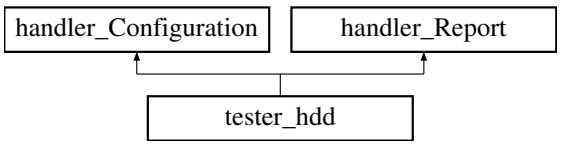
Creates defined number of columns

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

- handler_Report.hpp
- handler_Report.cpp

3.5 tester_hdd Class Reference

Inheritance diagram for tester_hdd:



Public Member Functions

- tester_hdd (int, char **)
- void Run ()

Public Attributes

- bool **bRun**

3.5.1 Constructor & Destructor Documentation

3.5.1.1 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

Number of columns

Set output args

3.5.2 Member Function Documentation

3.5.2.1 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

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

- tester_hdd.hpp
- tester_hdd.cpp

3.6 buskol::ThreadTemplates::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)

3.6.1 Detailed Description

template<class ClassT> class buskol::ThreadTemplates::thread_1< ClassT >

Thread_1 is very simple thread template which constainst few controle methods and entry for statistics.

3.6.2 Constructor & Destructor Documentation

3.6.2.1 template<class ClassT> virtual buskol::ThreadTemplates::thread_1< ClassT >::~thread_1 () [inline, virtual]

Virtual destructor which can show time of execution

3.6.3 Member Function Documentation

3.6.3.1 template<class ClassT> static void buskol::ThreadTemplates::thread_1< ClassT >::Execute_ (ClassT * *p*) [inline, static]

Static linker for dynamic method

3.6.3.2 template<class ClassT> void buskol::ThreadTemplates::thread_1< ClassT >::join (unsigned *val*) [inline]

Join thread after specified time in seconds

3.6.3.3 template<class ClassT> void buskol::ThreadTemplates::thread_1< ClassT >::join () [inline]

Join thread

3.6.3.4 template<class ClassT> static void buskol::ThreadTemplates::thread_1< ClassT >::self_test () [inline, static]

This method is only for test purpose!

3.6.3.5 template<class ClassT> void buskol::ThreadTemplates::thread_1< ClassT >::start () [inline]

Creates Thread and links it dynamic using static method

3.6.3.6 template<class ClassT> void buskol::ThreadTemplates::thread_1< ClassT >::start_self_test () [inline]

This method is only for test purpose!

3.6.3.7 template<class ClassT> void buskol::ThreadTemplates::thread_1< ClassT >::UpdateStats (string * *str*) [inline]

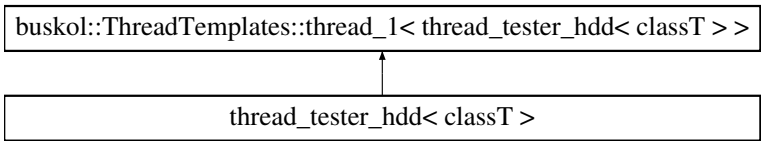
Push statistic information

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

- myThreadTemplates.hpp

3.7 thread_tester_hdd< classT > Class Template Reference

Inheritance diagram for thread_tester_hdd< classT >:



Public Member Functions

- **thread_tester_hdd** (vector< uint64_t > &, boost::filesystem::path &, unsigned &, unsigned &, unsigned &, unsigned &, uint16_t &, mode_t &, bool, bool, bool, classT *)
- **thread_tester_hdd** (classT *)
- void **setNewData** (vector< unsigned > &, boost::filesystem::path &)
- void Execute ()

template<class classT> class thread_tester_hdd< classT >

3.7.1 Member Function Documentation

3.7.1.1 template<class classT > void thread_tester_hdd< classT >::Execute () [inline]

Write test

Both read test

Cleaning after rw tests

hybrird drive test which is normal test but with reversed order

Write test

Both read test

Cleaning after rw tests

Write test

Cleaning after rw tests

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

- thread_tester_hdd.hpp
- thread_tester_hdd.cpp

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