LFC1 Libraries

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Contents

Chapter 1

Main Page

This library is an extension of the C++ standard library and the Boost C++ library. Each sub-library enhances C++ code reliability by providing the following capabilities:

- (Config) A set of functions used to manipulate a configuration file.
- (Logging) A set of enumerations and functions which provides a pre-configured interface to the Boost.Log library.
- (System) A set of enumerations and classes which provides error codes and an error category for this library. This library provides an example of what is needed to extend the C++ diagnostic library.
- (Udtsup) A set of templates which provides exception/error handling for inserters, extractors and manipulators of user-defined types. These templates handle exceptions derived from std::bad_alloc, std::exception and unknown exceptions.
- (Filesystem) A set of classes which extends the standard or Boost filesystem library.
- (Iso) A set of interfaces representing ISO standards. These interfaces provide the ability to interchange data sources for languages, countries and currencies defined by ISO standards.
- (Isofile) A set of classes implementing the interfaces defined in the ISO library where the data sources are files formatted according to the ISO standards for languages, countries and currencies. There is also an exception class which identifies missing parts in the data files.
- (Checksum) A set of interfaces and classes for checksum/hash calculation. The interfaces provide the ability to interchange checksum or hash calculators. The classes provide the ability to calculate checksums or hashes of a sequence of bytes in memory or in files.
- (Codecvt) A set of classes for converting various 8-bit code points to their equivalent ISO 10646 UCS-4 code points and vice versa.
- (Datetime) A set of classes representing dates, times and timestamps. These classes also provide the ability to input and output dates, times and timestamps in a formatted manner.
- (Id3v10) A set of classes which provides the ability to read and write ID3 v1.0 tags.
- (Id3v11) A set of classes which provides the ability to read and write ID3 v1.1 tags.
- (Id3v20) A set of classes which defines the various types of fields used in ID3 v2.x frames.
- (Id3v22) A set of classes which provides the ability to read and write ID3 v2.2 tags.
- (Id3v23) A set of classes which provides the ability to read and write ID3 v2.3 tags.
- (Db) A set of interfaces required to access a database and a set of supporting classes common to all database access implementations.
- (Mysql) A set of classes which implements the interfaces defined in the database access library using the MySQL database.

Note

String data handled by this library uses the UTF-8 character set. This library is thread-safe. The code in this library complies to the recommendations contained in the books C++ Coding Standards, Effective C++ and Effective Modern C++ and the document LFC-CS-0003 - C++ Coding Standards.doc.

Chapter 2

Module Index

2.1 Modules

Here is a list of all modules:

Chapter 3

Module Documentation

3.1 Configuration library

This library contains a set of functions used to manipulate a configuration file. When this library is used, the various functions manage the use of a single configuration file.

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