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Sennheiser MobileConnect Station

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you

accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file

is unrestricted, regardless of whether it is legally a derivative work.

(Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that

the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving

your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains

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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary.

Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

Detailed Package List and Information

name: avahi

license: LGPLv2.1

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name: pcd license:

LGPLv2.1

/* *

condchk.c

* Description:

* PCD condition check implementation file

*

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*

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*

*/

name: KissFFT

license: BSD-3c

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name: PicoSHA2

license: MIT

/*

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*/

name: tinyAES

license: Unlicense

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For more information, please refer to <http://unlicense.org/>

name: Boost

license: Boost Software License

Copyright notices per module:

Accumulators

Framework for incremental calculation, and collection of statistical accumulators.

Author(s)

Eric Niebler

First Release

1.36.0

Algorithm

A collection of useful generic algorithms.

Author(s)

Marshall Clow

First Release

1.50.0

Align

Memory alignment functions, allocators, traits.

Author(s)

Glen Fernandes

First Release

1.56.0

Any

Safe, generic container for single values of different value types.

Author(s)

Kevlin Henney

First Release

1.23.0

Array

STL compliant container wrapper for arrays of constant size.

Author(s)

Nicolai Josuttis

First Release

1.17.0

Asio

Portable networking and other low-level I/O, including sockets, timers, hostname resolution, socket iostreams, serial ports, file descriptors and Windows HANDLES.

Author(s)

Chris Kohlhoff

First Release

1.35.0

Assert

Customizable assert macros.

Author(s)

Peter Dimov

First Release

1.27.0

Assign

Filling containers with constant or generated data has never been easier.

Author(s)

Thorsten Ottosen

First Release

1.32.0

Atomic

C++11-style atomic<>.

Author(s)

Helge Bahmann, Tim Blechmann and Andrey Semashev

First Release

1.53.0

Beast

Portable HTTP, WebSocket, and network operations using only C++11 and Boost.Asio

Author(s)

Vinnie Falco

First Release

1.66.0

Bimap

Bidirectional maps library for C++. With Boost.Bimap you can create associative containers in which both types can be used as key.

Author(s)

Matias Capeletto

First Release

1.35.0

Bind `boost::bind` is a generalization of the standard functions `std::bind1st` and `std::bind2nd`. It supports arbitrary function objects, functions, function pointers, and member function pointers, and is able to bind any argument to a specific value or route input arguments into arbitrary positions.

Author(s)

Peter Dimov

First Release

1.25.0

Call Traits

Defines types for passing parameters.

Author(s)

John Maddock, Howard Hinnant, et al

First Release

1.13.0

CallableTraits

A spiritual successor to `Boost.FunctionTypes`, `Boost.CallableTraits` is a header-only C++11 library for the compile-time inspection and manipulation of all 'callable' types. Additional support for C++17 features. Author(s)

Barrett Adair

First Release

1.66.0

Chrono

Useful time utilities. C++11.

Author(s)

Howard Hinnant, Beman Dawes and Vicente J. Botet Escriba

First Release

1.47.0

Circular Buffer

A STL compliant container also known as ring or cyclic buffer.

Author(s)

Jan Gaspar

First Release

1.35.0

Compatibility

Help for non-conforming standard libraries.

Author(s)

Ralf Grosse-Kunstleve and Jens Maurer

First Release

1.21.2

Compressed Pair

Empty member optimization.

Author(s)

John Maddock, Howard Hinnant, et al

First Release

1.13.0

Compute

Parallel/GPU-computing library

Author(s)

Kyle Lutz

First Release

1.61.0

Concept Check

Tools for generic programming.

Author(s)

Jeremy Siek

First Release

1.19.0

Config

Helps Boost library developers adapt to compiler idiosyncrasies; not intended for library users.

Author(s)

First Release

1.9.0

Container

Standard library containers and extensions.

Author(s)

Ion Gaztañaga

First Release

1.48.0

Container Hash

An STL-compatible hash function object that can be extended to hash user defined types.

Author(s)

Daniel James

First Release

1.33.0

Context

(C++11) Context switching library.

Author(s)

Oliver Kowalke

First Release

1.51.0

Contract

Contract programming for C++. All contract programming features are supported: Subcontracting, class invariants, postconditions (with old and return values), preconditions, customizable actions on assertion failure (e.g., terminate or throw), optional compilation and checking of assertions, etc.

Author(s)

Lorenzo Caminiti

First Release

1.67.0

Conversion

Polymorphic casts.

Author(s)

Dave Abrahams and Kevlin Henney

First Release

1.20.0

Convert

An extendible and configurable type-conversion framework.

Author(s)

Vladimir Batov

First Release

1.59.0

Core

A collection of simple core utilities with minimal dependencies.

Author(s)

Peter Dimov, Glen Fernandes and Andrey Semashev

First Release

1.56.0

Coroutine (deprecated)

Coroutine library.

Author(s)

Oliver Kowalke

First Release

1.53.0

Coroutine2

(C++11) Coroutine library.

Author(s)

Oliver Kowalke

First Release

1.59.0

CRC

The Boost CRC Library provides two implementations of CRC (cyclic redundancy code) computation objects and two implementations of CRC computation functions. The implementations are templatebased.

Author(s)

Daryle Walker

First Release

1.22.0

Date Time

A set of date-time libraries based on generic programming concepts.

Author(s)

Jeff Garland

First Release

1.29.0

DLL

Library for comfortable work with DLL and DSO.

Author(s)

Antony Polukhin and Renato Tegon Forti

First Release

1.61.0

Dynamic Bitset

The `dynamic_bitset` class represents a set of bits. It provides accesses to the value of individual bits via an operator[] and provides all of the bitwise operators that one can apply to builtin integers, such as operator& and operator<<. The number of bits in the set is specified at runtime via a parameter to the constructor of the `dynamic_bitset`.

Author(s)

Jeremy Siek and Chuck Allison

First Release

1.29.0

Enable If

Selective inclusion of function template overloads.

Author(s)

Jaakko Järvi, Jeremiah Willcock and Andrew Lumsdaine

First Release

1.31.0

Endian

Types and conversion functions for correct byte ordering and more regardless of processor endianness.

Author(s)

Beman Dawes

First Release

1.58.0

Exception

The Boost Exception library supports transporting of arbitrary data in exception objects, and transporting of exceptions between threads.

Author(s)

Emil Dotchevski

First Release

1.36.0

Fiber

(C++11) Userland threads library.

Author(s)

Oliver Kowalke

First Release

1.62.0

Filesystem

The Boost Filesystem Library provides portable facilities to query and manipulate paths, files, and directories. Author(s)

Beman Dawes

First Release

1.30.0

Flyweight

Design pattern to manage large quantities of highly redundant objects.

Author(s)

Joaquín M López Muñoz

First Release

1.38.0

Foreach

In C++, writing a loop that iterates over a sequence is tedious. We can either use iterators, which requires a considerable amount of boiler-plate, or we can use the `std::for_each()` algorithm and move our loop body into a predicate, which requires no less boiler-plate and forces us to move our logic far from where it will be used. In contrast, some other languages, like Perl, provide a dedicated "foreach" construct that automates this process. `BOOST_FOREACH` is just such a construct for C++. It iterates over sequences for us, freeing us from having to deal directly with iterators or write predicates.

Author(s)

Eric Niebler

First Release

1.34.0

Format

The format library provides a type-safe mechanism for formatting arguments according to a printflike format-string. Author(s)

Samuel Krepp

First Release

1.29.0

Function

Function object wrappers for deferred calls or callbacks.

Author(s)

Doug Gregor

First Release

1.23.0

Function Types

Boost.FunctionTypes provides functionality to classify, decompose and synthesize function, function pointer, function reference and pointer to member types.

Author(s)

Tobias Schwinger

First Release

1.35.0

Functional

The Boost.Function library contains a family of class templates that are function object wrappers.

Author(s)

Mark Rodgers

First Release

1.16.0

Functional/Factory

Function object templates for dynamic and static object creation

Author(s)

Glen Fernandes and Tobias Schwinger

First Release

1.43.0

Functional/Forward

Adapters to allow generic function objects to accept arbitrary arguments

Author(s)

Tobias Schwinger

First Release

1.43.0

Functional/Overloaded Function

Overload different functions into a single function object.

Author(s)

Lorenzo Caminiti

First Release

1.50.0

Fusion

Library for working with tuples, including various containers, algorithms, etc.

Author(s)

Joel de Guzman, Dan Marsden and Tobias Schwinger

First Release

1.35.0

Geometry

The Boost.Geometry library provides geometric algorithms, primitives and spatial index.

Author(s)

Barend Gehrels, Bruno Lalande, Mateusz Loskot, Adam Wulkiewicz and Menelaos Karavelas

First Release

1.47.0

GIL

(C++11) Generic Image Library

Author(s)

Lubomir Bourdev, Hailin Jin and Christian Henning

First Release

1.35.0

Graph

The BGL graph interface and graph components are generic, in the same sense as the Standard Template Library (STL).

Author(s)

Jeremy Siek and a University of Notre Dame team.

First Release

1.18.0

GraphParallel

The PBGL graph interface and graph components are generic, in the same sense as the the Standard Template Library (STL).

Author(s)

Jeremy Siek, Doug Gregor, and a University of Notre Dame team.

First Release

1.40.0

Hana

A modern C++ metaprogramming library. It provides high level algorithms to manipulate heterogeneous sequences, allows writing type-level computations with a natural syntax, provides tools to introspect user-defined types and much more.

Author(s)

Louis Dionne

First Release

1.61.0

Heap

Priority queue data structures.

Author(s)

Tim Blechmann

First Release

1.49.0

Histogram

Fast multi-dimensional histogram with convenient interface for C++14

Author(s)

Hans Dembinski

First Release

1.70.0

HOF

Higher-order functions for C++

Author(s)

Paul Fultz II

First Release

1.67.0

ICL

Interval Container Library, interval sets and maps and aggregation of associated values

Author(s)

Joachim Faulhaber

First Release

1.46.0

Identity Type

Wrap types within round parenthesis so they can always be passed as macro parameters.

Author(s)

Lorenzo Caminiti

First Release

1.50.0

In Place Factory, Typed In Place Factory

Generic in-place construction of contained objects with a variadic argument-list.

Author(s)

Fernando Cacciola

First Release

1.32.0

Integer

The organization of boost integer headers and classes is designed to take advantage of `<stdint.h>` types from the 1999 C standard without resorting to undefined behavior in terms of the 1998 C++ standard. The header `<boost/cstdint.hpp>` makes the standard integer types safely available in namespace `boost` without placing any names in namespace `std`.

Author(s)

First Release

1.9.0

Interprocess

Shared memory, memory mapped files, process-shared mutexes, condition variables, containers and allocators. Author(s)

Ion Gaztañaga

First Release

1.35.0

Interval

Extends the usual arithmetic functions to mathematical intervals.

Author(s)

Guillaume Melquiond, Hervé Brönnimann and Sylvain Pion

First Release

1.30.0

Intrusive

Intrusive containers and algorithms.

Author(s)

Ion Gaztañaga

First Release

1.35.0

IO

Utilities for the standard I/O library.

Author(s)

Daryle Walker, Beman Dawes and Glen Fernandes

First Release

1.28.0

iostreams

Boost.IOStreams provides a framework for defining streams, stream buffers and i/o filters.

Author(s)

Jonathan Turkanis

First Release

1.33.0

Iterator

The Boost Iterator Library contains two parts. The first is a system of concepts which extend the C++ standard iterator requirements. The second is a framework of components for building iterators based on these extended concepts and includes several useful iterator adaptors.

Author(s)

Dave Abrahams, Jeremy Siek and Thomas Witt

First Release

1.21.0

JSON

JSON parsing, serialization, and DOM in C++11

Author(s)

Vinnie Falco and Krystian Stasiowski

First Release

1.75.0

Lambda

Define small unnamed function objects at the actual call site, and more.

Author(s)

Jaakko Järvi and Gary Powell

First Release

1.28.0

LEAF

A lightweight error-handling library for C++11.

Author(s)

Emil Dotchevski

First Release

1.75.0

Lexical Cast

General literal text conversions, such as an int represented a string, or vice-versa.

Author(s)

Kevlin Henney

First Release

1.20.0

Local Function

Program functions locally, within other functions, directly within the scope where they are needed.

Author(s)

Lorenzo Caminiti

First Release

1.50.0

Locale

Provide localization and Unicode handling tools for C++.

Author(s)

Artyom Beilis

First Release

1.48.0

Lockfree

Lockfree data structures.

Author(s)

Tim Blechmann

First Release

1.53.0

Log

Logging library.

Author(s)

Andrey Semashev

First Release

1.54.0

Math

Boost.Math includes several contributions in the domain of mathematics: The Greatest Common Divisor and Least Common Multiple library provides run-time and compile-time evaluation of the greatest common divisor (GCD) or least common multiple (LCM) of two integers. The Special Functions library currently provides eight templated special functions, in namespace boost. The Complex Number Inverse Trigonometric Functions are the inverses of trigonometric functions currently present in the C++ standard. Quaternions are a relative of complex numbers often used to parameterise rotations in three dimensional space. Octonions, like quaternions, are a relative of complex numbers.

Author(s)

various First

Release

1.23.0

Math Common Factor

Greatest common divisor and least common multiple.

Author(s)

Daryle Walker

First Release

1.26.0

Math Octonion

Octonions.

Author(s)

Hubert Holin

First Release

1.23.0

Math Quaternion

Quaternions.

Author(s)

Hubert Holin

First Release

1.23.0

Math/Special Functions

A wide selection of mathematical special functions.

Author(s)

John Maddock, Paul Bristow, Hubert Holin and Xiaogang Zhang

First Release

1.35.0

Math/Statistical Distributions

A wide selection of univariate statistical distributions and functions that operate on them.

Author(s)

John Maddock and Paul Bristow

First Release

1.35.0

Member Function

Generalized binders for function/object/pointers and member functions.

Author(s)

Peter Dimov

First Release

1.25.0

Meta State Machine

A very high-performance library for expressive UML2 finite state machines.

Author(s)

Christophe Henry

First Release

1.44.0

Metaparse

A library for generating compile time parsers parsing embedded DSL code as part of the C++ compilation process

Author(s)

Abel Sinkovics

First Release

1.61.0

Min-Max

Standard library extensions for simultaneous min/max and min/max element computations.

Author(s)

Hervé Brönnimann

First Release

1.32.0

Move

Portable move semantics for C++03 and C++11 compilers.

Author(s)

Ion Gaztañaga

First Release

1.48.0

Mp11

A C++11 metaprogramming library.

Author(s)

Peter Dimov

First Release

1.66.0

MPI

Message Passing Interface library, for use in distributed-memory parallel application programming.

Author(s)

Douglas Gregor and Matthias Troyer

First Release

1.35.0

MPL

The Boost.MPL library is a general-purpose, high-level C++ template metaprogramming framework of compile-time algorithms, sequences and metafunctions. It provides a conceptual foundation and an extensive set of powerful and coherent tools that make doing explicit metaprogramming in C++ as easy and enjoyable as possible within the current language.

Author(s)

Aleksey Gurtovoy

First Release

1.30.0

Multi-Array

Boost.MultiArray provides a generic N-dimensional array concept definition and common implementations of that interface.

Author(s)

Ron Garcia

First Release

1.29.0

Multi-Index

The Boost Multi-index Containers Library provides a class template named `multi_index_container` which enables the construction of containers maintaining one or more indices with different sorting and access semantics.

Author(s)

Joaquín M López Muñoz

First Release

1.32.0

Multiprecision

Extended precision arithmetic types for floating point, integer and rational arithmetic.

Author(s)

John Maddock and Christopher Kormanyos

First Release

1.53.0

Nowide

Standard library functions with UTF-8 API on Windows.

Author(s)

Artyom Beilis

First Release

1.73.0

Numeric Conversion

Optimized Policy-based Numeric Conversions.

Author(s)

Fernando Cacciola

First Release

1.32.0

Odeint

Solving ordinary differential equations.

Author(s)

Karsten Ahnert and Mario Mulansky

First Release

1.53.0

Operators

Templates ease arithmetic classes and iterators.

Author(s)

Dave Abrahams and Jeremy Siek

First Release

1.9.0

Optional

A value-semantic, type-safe wrapper for representing 'optional' (or 'nullable') objects of a given type. An optional object may or may not contain a value of the underlying type.

Author(s)

Fernando Cacciola

First Release

1.30.0

Outcome

A deterministic failure handling library partially simulating lightweight exceptions.

Author(s)

Niall Douglas

First Release

1.70.0

Parameter

Boost.Parameter Library - Write functions that accept arguments by name.

Author(s)

David Abrahams and Daniel Wallin

First Release

1.33.0

Parameter Python Bindings

Boost.Parameter Library Python bindings.

Author(s)

David Abrahams and Daniel Wallin

First Release

1.69.0

PFR

Basic reflection for user defined types.

Author(s)

Antony Polukhin

First Release

1.75.0

Phoenix

Define small unnamed function objects at the actual call site, and more.

Author(s)

Joel de Guzman, Dan Marsden, Thomas Heller and John Fletcher

First Release

1.47.0

Pointer Container

Containers for storing heap-allocated polymorphic objects to ease OO-programming.

Author(s)

Thorsten Ottosen

First Release

1.33.0

PolyCollection

Fast containers of polymorphic objects.

Author(s)

Joaquín M López Muñoz

First Release

1.65.0

Polygon

Voronoi diagram construction and booleans/clipping, resizing/offsetting and more for planar polygons with integral coordinates.

Author(s)

Lucanus Simonson and Andrii Sydorhuk

First Release

1.44.0

Pool

Memory pool management.

Author(s)

Steve Cleary

First Release

1.21.0

Predef

This library defines a set of compiler, architecture, operating system, library, and other version numbers from the information it can gather of C, C++, Objective C, and Objective C++ predefined macros or those defined in generally available headers.

Author(s)

Rene Rivera

First Release

1.55.0

Preprocessor

Preprocessor metaprogramming tools including repetition and recursion.

Author(s)

Vesa Karvonen and Paul Mensonides

First Release

1.26.0

Process

Library to create processes in a portable way.

Author(s)

Merino Vidal, Ilya Sokolov, Felipe Tanus, Jeff Flinn, Thomas Jarosch, Boris Schaeling and Klemens D. Morgenstern

First Release

1.64.0

Program Options

The `program_options` library allows program developers to obtain program options, that is (name, value) pairs from the user, via conventional methods such as command line and config file.

Author(s)

Vladimir Prus

First Release

1.32.0

Property Map

Concepts defining interfaces which map key objects to value objects.

Author(s)

Jeremy Siek

First Release

1.19.0

Property Tree

A tree data structure especially suited to storing configuration data.

Author(s)

Marcin Kalicinski and Sebastian Redl

First Release

1.41.0

Proto

Expression template library and compiler construction toolkit for domain-specific embedded languages.

Author(s)

Eric Niebler

First Release

1.37.0

Python

The Boost Python Library is a framework for interfacing Python and C++. It allows you to quickly and seamlessly expose C++ classes functions and objects to Python, and vice-versa, using no special tools -- just your C++ compiler.

Author(s)

Dave Abrahams

First Release

1.19.0

QVM

Generic {CPP} library for working with Quaternions Vectors and Matrices.

Author(s)

Emil Dotchevski

First Release

1.62.0

Random

A complete system for random number generation.

Author(s)

Jens Maurer

First Release

1.15.0

Range

A new infrastructure for generic algorithms that builds on top of the new iterator concepts.

Author(s)

Niel Groves and Thorsten Ottosen

First Release

1.32.0

Ratio

Compile time rational arithmetic. C++11.

Author(s)

Howard Hinnant, Beman Dawes and Vicente J. Botet Escriba

First Release

1.47.0

Rational

A rational number class.

Author(s)

Paul Moore

First Release

1.11.0

Ref

A utility library for passing references to generic functions.

Author(s)

Jaako Järvi, Peter Dimov, Doug Gregor and Dave Abrahams

First Release

1.25.0

Regex

Regular expression library.

Author(s)

John Maddock

First Release

1.18.0

Result Of

Determines the type of a function call expression.

Author(s)

First Release

1.32.0

Safe Numerics

Guaranteed Correct Integer Arithmetic

Author(s)

Robert Ramey

First Release

1.69.0

Scope Exit

Execute arbitrary code at scope exit.

Author(s)

Alexander Nasonov

First Release

1.38.0

Serialization

Serialization for persistence and marshalling.

Author(s)

Robert Ramey

First Release

1.32.0

Signals2

Managed signals & slots callback implementation (thread-safe version 2).

Author(s)

Frank Mori Hess

First Release

1.39.0

Smart Ptr

Smart pointer class templates.

Author(s)

Greg Colvin, Beman Dawes, Peter Dimov, Darin Adler and Glen Fernandes

First Release

1.23.0

Sort

High-performance templated sort functions.

Author(s)

Steven Ross

First Release

1.58.0

Spirit

LL parser framework represents parsers directly as EBNF grammars in inlined C++.

Author(s)

Joel de Guzman, Hartmut Kaiser and Dan Nuffer

First Release

1.30.0

Spirit Classic

LL parser framework represents parsers directly as EBNF grammars in inlined C++.

Author(s)

Joel de Guzman, Hartmut Kaiser and Dan Nuffer

First Release

1.69.0

Spirit Repository

The Spirit repository is a community effort collecting different reusable components (primitives, directives, grammars, etc.) for Qi parsers and Karma generators.

Author(s)

Joel de Guzman, Hartmut Kaiser and Dan Nuffer

First Release

1.69.0

Stacktrace

Gather, store, copy and print backtraces.

Author(s)

Antony Polukhin

First Release

1.65.0

Statechart

Boost.Statechart - Arbitrarily complex finite state machines can be implemented in easily readable and maintainable C++ code.

Author(s)

Andreas Huber Dönni

First Release

1.34.0

Static Assert

Static assertions (compile time assertions).

Author(s)

John Maddock

First Release

1.19.0

Static String

A fixed capacity dynamically sized string.

Author(s)

Krystian Stasiowski and Vinnie Falco

First Release

1.73.0

Stl_interfaces

C++14 and later CRTP templates for defining iterators, views, and containers.

Author(s)

T. Zachary Laine

First Release

1.74.0

String Algo

String algorithms library.

Author(s)

Pavol Droba

First Release

1.32.0

String_ref

String view templates.

Author(s)

Marshall Clow

First Release

1.71.0

Swap

Enhanced generic swap function.

Author(s)

Joseph Gauterin

First Release

1.38.0

System

Operating system support, including the diagnostics support that will be part of the C++0x standard library. Author(s)

Beman Dawes

First Release

1.35.0

Test

Support for simple program testing, full unit testing, and for program execution monitoring.

Author(s)

Gennadiy Rozental and Raffi Enficiaud

First Release

1.21.0

Thread

Portable C++ multi-threading. C++03, C++11, C++14, C++17.

Author(s)

Anthony Williams and Vicente J. Botet Escriba

First Release

1.25.0

ThrowException

A common infrastructure for throwing exceptions from Boost libraries.

Author(s)

Emil Dotchevski and Peter Dimov

First Release

1.56.0

Timer

Event timer, progress timer, and progress display classes.

Author(s)

Beman Dawes

First Release

1.9.0

Tokenizer

Break of a string or other character sequence into a series of tokens.

Author(s)

John Bandela

First Release

1.23.0

Tribool

3-state boolean type library.

Author(s)

Doug Gregor

First Release

1.32.0

TTI

Type Traits Introspection library.

Author(s)

Edward Diener

First Release

1.54.0

Tuple

Ease definition of functions returning multiple values, and more.

Author(s)

Jaakko Järvi

First Release

1.24.0

Type Erasure

Runtime polymorphism based on concepts.

Author(s)

Steven Watanabe

First Release

1.54.0

Type Index

Runtime/Compile time copyable type info.

Author(s)

Antony Polukhin

First Release

1.56.0

Type Traits

Templates for fundamental properties of types.

Author(s)

John Maddock, Steve Cleary, et al

First Release

1.13.0

Typeof

Typeof operator emulation.

Author(s)

Arkadiy Vertleyb and Peder Holt

First Release

1.34.0

uBLAS uBLAS provides tensor, matrix, and vector classes as well as basic linear algebra routines. Several dense, packed and sparse storage schemes are supported.

Author(s)

Joerg Walter and Mathias Koch

First Release

1.29.0

Units

Zero-overhead dimensional analysis and unit/quantity manipulation and conversion.

Author(s)

Matthias Schabel and Steven Watanabe

First Release

1.36.0

Unordered

Unordered associative containers.

Author(s)

Daniel James

First Release

1.36.0

Utility

Class noncopyable plus checked_delete(), checked_array_delete(), next(), prior() function templates, plus base-from-member idiom.

Author(s)

Dave Abrahams and others

First Release

1.13.0

Uuid

A universally unique identifier.

Author(s)

Andy Tompkins

First Release

1.42.0

Value Initialized

Wrapper for uniform-syntax value initialization, based on the original idea of David Abrahams.

Author(s)

Fernando Cacciola

First Release

1.9.0

Variant

Safe, generic, stack-based discriminated union container.

Author(s)

Eric Friedman and Itay Maman

First Release

1.31.0

Variant2

A never-valueless, strong guarantee implementation of `std::variant`.

Author(s)

Peter Dimov

First Release

1.71.0

VMD

Variadic Macro Data library.

Author(s)

Edward Diener

First Release

1.60.0

Wave

The Boost.Wave library is a Standards conformant, and highly configurable implementation of the mandated C99/C++ preprocessor functionality packed behind an easy to use iterator interface.

Author(s)

Hartmut Kaiser

First Release

1.33.0

Xpressive

Regular expressions that can be written as strings or as expression templates, and which can refer to each other and themselves recursively with the power of context-free grammars. Author(s)

Eric Niebler

First Release

1.34.0

YAP

An expression template library for C++14 and later.

Author(s)

T. Zachary Laine

First Release

1.68.0

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name: libev

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libev was written and designed by Marc Lehmann and Emanuele Giaquinta.

The following people sent in patches or made other noteworthy contributions to the design (for minor patches, see the Changes file.

If I forgot to include you, please shout at me, it was an accident):

W.C.A. Wijngaards

Christopher Layne

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*

* Contributors:

* Ian Craggs - initial API and implementation and/or initial documentation
* Ian Craggs - updates for the async client

*****/

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* Contributors:

* Keith Holman - initial implementation and documentation

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* Rainer Poisel - reusability

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name: atftp

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/* hey emacs! -*- Mode: C; c-file-style: "k&r"; indent-tabs-mode: nil -*- */

/*

* options.c

* Set of functions to deal with the options structure and for parsing * options in TFTP data
buffer.

*

* \$Id: options.c,v 1.16 2003/04/25 00:16:18 jp Exp \$

*

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* and Remi Lefebvre <remi@debian.org>

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*/

name: busybox

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/* vi: set sw=4 ts=4: */

/*

* Mini watch implementation for busybox

*

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* Copyright (C) Mar 16, 2003 Manuel Novoa III (mjn3@codepoet.org)
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name: dhcpcd

license: BSD-2c

dhcpcd - DHCP client daemon

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name: e2fsprogs

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Theodore Ts'o

23-June-2007

```
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 *      alloc.c --- allocate new inodes, blocks for ext2fs
 *
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 *
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 */
```

```
/*
 *      setversion.c   - Set a file version on an ext2 file system
 *
 *      Copyright (C) 1993, 1994 Remy Card <card@masi.ibp.fr>
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 *      %End-Header%
 */
```

.....

e2fsprogs: lib/uuid/

.....

```
/*
```

```
* compare.c --- compare whether or not two UUID's are the same
*
* Returns 0 if the two UUID's are different, and 1 if they are the same. *
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*/
```

.....

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.....

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.....

e2fsprogs: lib/et/

.....

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name: libqrencode

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/*

* qrencode - QR Code encoder

*

* Binary sequence class.

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[Tatu continues]

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- GMP is no longer used, and instead we call BN code from OpenSSL
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[The licence continues]

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* @version 3.0 (December 2000)

*

* Optimised ANSI C code for the Rijndael cipher (now AES)

*

* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same

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/*
 * Portable xxxat() functions.
 *
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 *
 * Written by Karel Zak <kzak@redhat.com>
 */
```

```
/* Align/Truncate a string in a given screen width
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```

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```
/* Written by Pádraig Brady. */
```

```
/*
 * Terminology:
 *
 * cpuset - (libc) cpu_set_t data structure represents set of CPUs
 * cpumask - string with hex mask (e.g. "0x00000001")
 * cpulist - string with CPU ranges (e.g. "0-3,5,7,8") *
```

```
* Based on code from taskset.c and Linux kernel.
*
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*
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*/

/*
* Simple functions to access files, paths maybe be globally prefixed by a * global prefix to read
data from alternative destination (e.g. /proc dump for * regression tests).
*
* Taken from lscpu.c
*
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/*
```


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/**

First set of functions in this file are part of systemd, and were
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/*

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name: zlib

license: zlib license

/* compress.c -- compress a memory buffer

* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler

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*/

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Jean-loup Gailly Mark Adler jloup@gzip.org
madler@alumni.caltech.edu

name: linux

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name: @babel/core

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//      Yongsheng Zhang <https://github.com/ZYSzys>
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name: jest-dev-server

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- name: jest

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name: tslint-config-prettier

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name: vue-class-component

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name: vue-cli-plugin-vuetify

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