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1.5 uiacomwrapper 1.1.0.14

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1.8 tidyhtml 5.7.24

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HTML Tidy

HTML parser and pretty printer

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1.9 qca 2.2.1

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1.10 boost 1.65

1.10.1 Available under license :

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

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The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.) <?xml version="1.0" encoding="utf-8"?>

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The copyright note for other (source) files as .py, Jamfiles, etc is similar and comments are changed accordingly. This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.) <?xml version="1.0" encoding="UTF-8"?> <!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN" "http://www.boost.org/tools/boostbook/dtd/boostbook.dtd"> <article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 \$" xmlns:xi="http://www.w3.org/2001/XInclude"> <title>Copyright Test</title> <articleinfo> <copyright> <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder> </copyright> <copyright> <year>2018</year> <holder>Joe Blow, John Coe</holder> </copyright> <copyright> <year>1977</year> <year>1985</year> <holder>Someone else</holder> </copyright> </articleinfo> </article> [/ Copyright 2007 John Maddock. Distributed under the Boost Software License, Version 1.0. (See accompanying file LICENSE_1_0.txt or copy at

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http://www.boost.org/LICENSE_1_0.txt).
```

```
]
```

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an [@../../../libs/mpl/doc/refmanual/integral-constant.html Integral Constant type].

Please note that these types no longer inherit from `mpl::true_` or `mpl::false_` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.

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#!/usr/bin/env python

from subprocess import check_output as run from datetime import datetime from itertools import groupby from operator import itemgetter import re import magic

```
def authors(filename):
```

```
log = run(['git', 'log', '--follow',
    '--date=short','--format=%aN%x09%ad', filename],
    universal_newlines=True)
```

```
for line in log.splitlines():
```

```
author, date = line.split('\t')
```

```
if author != 'fix-copyright.py':
```

```
yield author, datetime.strptime(date, '%Y-%m-%d')
```

```
def new_copyright(filename, previous):
```

```
def f():
```

```
au = list(authors(filename))
```

```
alldates = map(itemgetter(1), au)
```

```
aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
```

```
for author, records in groupby(aup, itemgetter(0)):
```

```
dates = filter(None, map(itemgetter(1), records))
```

```
if not dates: dates = alldates
                  start = min(dates)
                  end = max(dates)
                  fmt = \{0\}' if start.year == end.year else \{0\}-\{1\}'
                  line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
                  key = (start, author)
                  yield key, line
    return map(itemgetter(1), sorted(f()))
def fix_copyright(filename):
     # Find copyright block in original file
     prefix = set()
     names = []
     lines = []
     with open(filename, 'r') as f:
           content = list(f)
     for i, line in enumerate(content[:15]):
           m = re.match(r'(?P<prefix>W*)((c)))?(s*?copyright)s*(((c)))?(s+d{4}((s*-(s*)d{4}))?(s+(?P<name>,+?))s*$', and a set of the set of 
line, re.IGNORECASE)
           if m:
                  d = m.groupdict()
                  prefix.add(d['prefix'])
                  lines.append(i)
                  names.append(d['name'].strip())
     if len(prefix) != 1:
           print 'Not found:', filename
           return
     prefix = list(prefix)[0]
     print filename
     new = iter(new_copyright(filename, names))
     with open(filename, 'w') as f:
           for i, line in enumerate(content):
                  if i in lines:
                         for repl in new:
                                print >>f, prefix + repl
                  else:
                         print >>f, line,
     pass
def all_files():
     ls = run(['git', 'ls-files'], universal_newlines=True)
     for filename in ls.splitlines():
           if magic.from_file(filename, mime=True).split('/')[0] == 'text':
                  yield filename
for f in all_files():
     fix_copyright(f)
```

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#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost { namespace intrusive { namespace detail {

using boost::move_detail::is_same; using boost::move_detail::add_const; using boost::move_detail::remove_const; using boost::move_detail::remove_cv; using boost::move_detail::remove_reference; using boost::move_detail::add_reference; using boost::move_detail::remove_pointer; using boost::move_detail::remove_pointer;

```
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move detail::bool ;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;
template<std::size_t S>
struct ls_zeros
{
 static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros < (S >> 1u) >::value);
};
template<>
struct ls_zeros<0>
{
 static const std::size_t value = 0;
};
template<>
struct ls_zeros<1>
{
 static const std::size_t value = 0;
};
// Infrastructure for providing a default type for T::TNAME if absent.
```

#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME) \

```
template <typename T, typename DefaultType>
 struct boost_intrusive_default_type_ ## TNAME
 {
  template <typename X>
  static char test(int, typename X::TNAME*);
  template <typename X>
                                               \
  static int test(...);
  struct DefaultWrap { typedef DefaultType TNAME; };
  static const bool value = (1 = sizeof(test < T > (0, 0))); \
  typedef typename
    ::boost::intrusive::detail::if_c
      <value, T, DefaultWrap>::type::TNAME type;
 };
 //
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL) \
  typename INSTANTIATION_NS_PREFIX
                                                                          /
    boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type
//
#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)\
 template <typename T, typename DefaultType>
 struct boost_intrusive_eval_default_type_ ## TNAME
                                                          \
 {
                                     template <typename X>
  static char test(int, typename X::TNAME*);
  template <typename X>
  static int test(...);
  struct DefaultWrap
  { typedef typename DefaultType::type TNAME; };
  static const bool value = (1 = sizeof(test < T > (0, 0))); \
  typedef typename
    ::boost::intrusive::detail::eval_if_c
      < value
      , ::boost::intrusive::detail::identity<T>
      , ::boost::intrusive::detail::identity<DefaultWrap> \
      >::type::TNAME type;
 };
```

```
//
```

```
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL) \setminus
  typename INSTANTIATION_NS_PREFIX
                                                                         \
    boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type
                                                                               \
//
#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX,
TYPEDEF_TO_FIND) \
template <class T>\setminus
struct TRAITS_PREFIX##_bool\
{\
 template<bool Add>\
 struct two_or_three {yes_type _[2 + Add];};\
 template <class U> static yes_type test(...);\
 template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\
 static const std::size_t value = sizeof(test<T>(0));\
};\
\
template <class T>
struct TRAITS PREFIX## bool is true
{\
static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\
};\
//
#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME,
FUNC_NAME) \
template <typename U, typename Signature> \
class TRAITS NAME \
{ \
private: \
template<Signature> struct helper;\
template<typename T> \
static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*); \
template<typename T> static ::boost::intrusive::detail::no_type test(...); \
public: \
static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); \
}; \
//
#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
template <typename Type> \
struct TRAITS_NAME \
```

```
{ \
struct BaseMixin \
{ \
void FUNC_NAME(); \
```

```
};\
struct Base : public Type, public BaseMixin { Base(); }; \
template <typename T, T t> class Helper{}; \
template <typename U> \
static ::boost::intrusive::detail::no_type test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); \
static ::boost::intrusive::detail::yes_type test(...); \
static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); \
};\
//
```

```
#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME,
FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)
\
template <typename Type, class> \
struct TRAITS_NAME \
: public TRAITS_NAME##_ignore_signature<Type> \
{};\
//
} //namespace detail
} //namespace intrusive
```

} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">

<title>MPL Interoperability</title>

k rel="stylesheet" href="../../../doc/src/boostbook.css" type="text/css">

<meta name="generator" content="DocBook XSL Stylesheets V1.79.1">

k rel="home" href="../index.html" title="Chapter 1. Boost.TypeTraits">

k rel="up" href="../index.html" title="Chapter 1. Boost.TypeTraits">

k rel="prev" href="intrinsics.html" title="Support for Compiler Intrinsics">

k rel="next" href="examples.html" title="Examples">

</head>

<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">

Home

```
<a href="../../../libs/libraries.htm">Libraries</a>
```

People

FAQ

More

<hr>

<div class="spirit-nav">

<div class="section">

```
<div class="titlepage"><div><h2 class="title" style="clear: both">
```

MPL Interoperability">MPL Interoperability

</h2></div></div>

All the value based traits in this library conform to MPL's requirements for an Integral

Constant type.

Please note that these types no longer inherit from <code class="computeroutput"><span

 $class="identifier">mpl:::true_</code> or a span class="identifier">true_</span class="identifier"true_</span class="identifier"true_</span class="identifier"true_</span class="identifier"true_</span class="identifier"</span class="identifier"true_</span class="identifier"</span class="identifier"</span class="identifier"</span class="identifier"</span class="identifier"</span class="identifier"</span class="identifier"</span class="identifier"</span class="identifier"</span class="identifier$

<code class="computeroutput">mpl:::<span

class="identifier">false_</code> etc, and the library will no longer

implicitly include any MPL header. However there is an implicit conversion

 $from <\!code \ class="computeroutput"\!>\!<\!span \ class="identifier"\!>integral_constant<\!/span><\!/code> to \ the$

corresponding MPL types, therefore tag-dispatching that uses MPL types in function

overloads will still work as before.

</div>

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</div>

<hr>

<div class="spirit-nav">

```
<a accesskey="p" href="intrinsics.html"><img src="../../../../doc/src/images/prev.png" alt="Prev"></a><a
accesskey="u" href="../index.html"><img src="../../../../doc/src/images/up.png" alt="Up"></a><a accesskey="h"
href="../index.html"><img src="../../../../doc/src/images/up.png" alt="Up"></a><a accesskey="n"
href="../index.html"><img src="../../../../doc/src/images/up.png" alt="Up"></a><a accesskey="n"
href="../index.html"><img src="../../../../doc/src/images/up.png" alt="Up"></a><a accesskey="n"
href="../index.html"><img src="../../../../doc/src/images/up.png" alt="Next"></a></a>
```

</div>

</body>

</html>

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This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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- *

*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>

#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

```
//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
 const fs::path& root;
 const fs::path& file;
 split_path(const fs::path& r, const fs::path& f)
   : root(r), file(f){}
private:
 split_path& operator=(const split_path&);
};
std::ostream& operator << (std::ostream& os, const split_path& p)
{
 os << "<a href=\"" << (p.root / p.file).string() << "\">" << p.file.string() << "</a>";
 return os;
}
std::string make_link_target(const std::string& s)
{
 // convert an arbitrary string into something suitable
 // for an <a> name:
 std::string result;
 for(unsigned i = 0; i < s.size(); ++i)
 {
   result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
 }
 return result;
}
void bcp_implementation::output_license_info()
{
 std::pair<const license_info*, int> licenses = get_licenses();
 std::map<int, license_data>::const_iterator i, j;
 i = m_license_data.begin();
 j = m_license_data.end();
 std::ofstream os(m_dest_path.string().c_str());
 if(!os)
 {
```

```
std::string msg("Error opening ");
 msg += m_dest_path.string();
 msg += " for output.";
 std::runtime_error e(msg);
 boost::throw_exception(e);
}
os <<
 "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\">\n"
 "<html>\n"
 "<head>\n"
 "<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
 os << " for " << *(m_module_list.begin());
}
os <<
 "</title>\n"
 "</head>\n"
 "<body>\n"
 "<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
 os << " for " << *(m_module_list.begin());
}
os <<
 "</H1>\n"
 "<H2>Contents</h2>\n"
 "<a href=\"#input\">Input Information</a>\n";
if(!m_bsl_summary_mode)
 os << "<a href=\"#summary\">Licence Summary</a>\n";
os << "<a href=\"#details\">Licence Details</a>\n";
while(i != j)
{
 // title:
 os << " <A href=\"#" << make_link_target(licenses.first[i->first].license_name)
   << "\">" << licenses.first[i->first].license_name << "</a>\n";
 ++i;
}
os << "<a href=\"#files\">Files with no recognised license</a>\n"
 "<a href=\"#authors\">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
 os <<
 "Moving to the Boost Software License...\n"
 " <a href=\"#bsl-converted\">Files that can be automatically converted to the Boost Software License</a>\n"
 " <a href=\"#to-bsl\">Files that can be manually converted to the Boost Software License</a>\n"
```

```
" <a href=\"#not-to-bsl\">Files that can <b>NOT</b> be moved to the Boost Software License</a>\n"
  " <a href=\"#need-bsl-authors\">Authors we need to move to the Boost Software License</a>\n"
  "<a href=\"#copyright\">Copyright Holder Information</a>\n";
 }
os <<
  "<a href=\"#depend\">File Dependency Information</a>\n"
  "";
//
// input Information:
//
os << "<a name=\"input\"></a><h2>Input Information</h2>\n";
if(m_scan_mode)
  os << "<P>The following files were scanned for boost dependencies:<BR>";
else
  os << "<P>The following Boost modules were checked:<BR>";
std::list<std::string>::const iterator si = m module list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
 {
  os << *si << "<BR>";
  ++si;
 }
os << "</p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
  "^[[:blank:]]*#[[:blank:]]*define[[:blank:]]+BOOST_VERSION[[:blank:]]+(\\d+)");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
  int version = boost::lexical_cast<int>(what.str(1));
  os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100</p>
<< "</P>\n";
}
//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
```

```
//
   // start with the summary:
   //
   os << "<a name=\"summary\"></a><h2>Licence Summary</h2>\n";
   while(i != j)
   {
    // title:
    os <<
      "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    // Copyright holders:
    os << "<P>This license is used by " << i->second.authors.size()
      << " authors and " << i->second.files.size()
      << "files <a href=\"#" << make_link_target(licenses.first[i->first].license_name) << "\">(see details)</a>";
    os << "</P></BLOCKQUOTE>\n";
    ++i;
   }
 }
 //
 // and now the details:
 //
 i = m_license_data.begin();
 j = m_license_data.end();
 int license_index = 0;
 os << "<a name=\"details\"></a><h2>Licence Details</h2>\n";
 while(i != j)
 {
  // title:
  os <<
    "<H3><A name=\"" << make_link_target(licenses.first[i->first].license_name)
    << "\"></a>" << licenses.first[i->first].license_name << "</H3>\n";
   // license text:
   os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
   if(!m_bsl_summary_mode || (license_index >= 3))
   {
    // Copyright holders:
    os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:</P>\n<BLOCKQUOTE><P>";
    std::set<std::string>::const_iterator x, y;
    x = i->second.authors.begin();
    y = i->second.authors.end();
    while(x \neq y)
     {
      os << *x << "<BR>\n";
      ++x;
     }
    os << "</P></BLOCKQUOTE>\n";
```

```
// Files using this license:
    os << "<P>This license applies to the following " << i->second.files.size() << "
files:</P>\n<BLOCKQUOTE><P>";
    std::set<fs::path, path_less>::const_iterator m, n;
    m = i->second.files.begin();
    n = i->second.files.end();
    while (m != n)
    {
      os << split_path(m_boost_path, *m) << "<br/>br>\n";
      ++m:
    }
    os << "</P></BLOCKQUOTE>\n";
  }
  else
  {
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
    os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
  }
  ++license_index;
  ++i;
 }
 //
 // Output list of files not found to be under license control:
 //
 os << "<h2><a name=\"files\"></a>Files With No Recognisable Licence</h2>\n"
  "<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P><BLOCKQUOTE><P>\n";
 std::set<fs::path, path_less>::const_iterator i2, j2;
 i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
 while(i2 != j2)
 {
  os << split_path(m_boost_path, *i2) << "<br/>br>\n";
  ++i2;
 }
 os << "</p></BLOCKQUOTE>";
 //
 // Output list of files with no found copyright holder:
 //
 os << "<h2><a name=\"authors\"></a>Files With No Recognisable Copyright Holder</h2>\n"
  "<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P>\n<BLOCKQUOTE><P>";
 i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
 while(i2 != j2)
 {
  os << split_path(m_boost_path, *i2) << "<br>\n";
  ++i2;
```

```
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    //
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
```

//

os << "<h2>Files that can be automatically converted to the Boost Software License</h2>/n"

 $<<"<P>The following "<< m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:</P>\n";$

```
if (!m_converted_to_bsl.empty())
```

```
{
 typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
   ::const_iterator conv_iterator;
 conv iterator i = m converted to bsl.begin(),
         ie = m_converted_to_bsl.end();
 int file_num = 1;
 while (i != ie)
 {
   os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
    << "</tt><br>\n\n \n """
    << i->second.first << "</pre>\n "
    << i->second.second << "</pre>\n \n\n";
   ++i;
   ++file_num;
 }
}
//
// Output list of files that could be moved over to the Boost Software License
//
```

```
os << "<h2><a name=\"to-bsl\"></a>Files that could be converted to the Boost Software License</h2>\n"
"<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost
Software License, but have not yet been:</P>\n<BLOCKQUOTE><P>";
```

```
i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name=\"not-to-bsl\"></a>Files that can NOT be converted to the Boost Software
```

License</h2>\n"

 $\label{eq:post_state} $$ "<P>The following" << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:</P>\n<BLOCKQUOTE><P>";$

```
i2 = m_cannot_migrate_to_bsl.begin();
  j2 = m_cannot_migrate_to_bsl.end();
   while(i2 != j2)
   {
    os << split_path(m_boost_path, *i2) << "<br/>br>\n";
    ++i2;
   }
   os << "</p></BLOCKQUOTE>";
   //
   // Output list of authors that we need permission for to move to the BSL
   //
   os << "<h2><a name=\"need-bsl-authors\"></a>Authors we need for the BSL</h2>\n"
    "<P>Permission of the following authors is needed before we can convert to the Boost Software License. The
list of authors that have given their permission is contained in <code>more/blanket-
permission.txt</code>.</P>\n<BLOCKQUOTE><P>";
   std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
        std::ostream_iterator<std::string>(os, "<br>\n"));
   os << "</p></BLOCKQUOTE>";
   //
   // output a table of copyright information:
   //
   os << "<H2><a name=\"copyright"></a>Copyright Holder Information</H2>\n";
   std::map<std::string, std::set<fs::path, path_less>>::const_iterator ad, ead;
   ad = m_author_data.begin();
   ead = m_author_data.end();
   while(ad != ead)
   {
    os << "<tr>""<< ad->first << "</td>";
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
      os << split_path(m_boost_path, *fi) << " ";</pre>
      ++fi;
    }
    os << "</td>\n";
    ++ad;
   }
   os << "</table>\n";
 }
 //
 // output file dependency information:
```

//

```
os << "<H2><a name=\"depend\"></a>File Dependency Information</H2><BLOCKQUOTE>\n";
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
 bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
 bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
 bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
 bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
 typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
   ::const_iterator conv_iterator;
 conv_iterator i = m_converted_to_bsl.begin(),
          ie = m_converted_to_bsl.end();
 while(i = ie)
 {
   bad_paths.insert(i->first);
   ++i;
 }
 fi = bad_paths.begin();
 efi = bad_paths.end();
 os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
 os << split_path(m_boost_path, *fi);
 dep = m_dependencies.find(*fi);
 last_dep = m_dependencies.end();
 std::set<fs::path, path_less> seen_deps;
 if (dep != last_dep)
  while(true)
    {
     os << " -> ";
     if(fs::exists(m_boost_path / dep->second))
      os << split_path(m_boost_path, dep->second);
     else if(fs::exists(dep->second))
      os << split_path(fs::path(), dep->second);
     else
      os << dep->second.string();
     if(seen_deps.find(dep->second) != seen_deps.end())
      {
       os << " <I>(Circular dependency!)</I>";
       break; // circular dependency!!!
      }
     seen_deps.insert(dep->second);
```

```
last_dep = dep;
      dep = m_dependencies.find(dep->second);
      if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
       break;
     }
   os << "\n";
   ++fi;
 }
 os << "</pre></BLOCKQUOTE>\n";
 os << "</body></html>\n";
 if(!os)
 {
   std::string msg("Error writing to ");
   msg += m_dest_path.string();
   msg += ".";
   std::runtime error e(msg);
  boost::throw_exception(e);
 }
}
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HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

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<!-- HTML header for doxygen 1.8.9.1-->

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"

"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta http-equiv="Content-Type" content="text/xhtml;charset=UTF-8"/>

<meta http-equiv="X-UA-Compatible" content="IE=9"/>

```
<meta name="generator" content="Doxygen 1.8.11"/>
```

```
<title>Boost.Hana: Boost.MPL adapters</title>
k href="tabs.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="jquery.js"></script>
<script type="text/javascript" src="dynsections.js"></script>
k href="navtree.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="resize.js"></script>
<script type="text/javascript" src="navtreedata.js"></script>
<script type="text/javascript" src="navtree.js"></script>
<script type="text/javascript">
$(document).ready(initResizable);
$(window).load(resizeHeight);
</script>
k href="search/search.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="search/searchdata.js"></script>
<script type="text/javascript" src="search/search.js"></script>
<script type="text/javascript">
$(document).ready(function() { init_search(); });
</script>
<script type="text/x-mathjax-config">
MathJax.Hub.Config({
 extensions: ["tex2jax.js"],
 jax: ["input/TeX","output/HTML-CSS"],
});
// Copyright Louis Dionne 2013-2017
// Distributed under the Boost Software License, Version 1.0.
// (See accompanying file LICENSE.md or copy at http://boost.org/LICENSE_1_0.txt)
MathJax.Hub.Config({
  "HTML-CSS": {
    linebreaks: {
      automatic: true,
      width: "75% container"
    }
  }
});
</script><script type="text/javascript" src="https://cdn.mathjax.org/mathjax/latest/MathJax.js"></script>
k href="doxygen.css" rel="stylesheet" type="text/css" />
<!-- Additional javascript for drawing charts. -->
<script type="text/javascript" src="highcharts.js"></script>
<script type="text/javascript" src="highcharts-data.js"></script>
<script type="text/javascript" src="highcharts-exporting.js"></script>
<script type="text/javascript" src="chart.js"></script>
<script type="text/javascript" src="hana.js"></script>
</head>
<body>
<div id="top"><!-- do not remove this div, it is closed by doxygen! -->
<div id="titlearea">
```

```
<img alt="Logo" src="Boost.png"/>
<div id="projectname">Boost.Hana
  <span id="projectnumber">1.2.0</span>
 </div>
 <div id="projectbrief">Your standard library for metaprogramming</div>
<div id="MSearchBox" class="MSearchBoxInactive">
   <span class="left">
     <img id="MSearchSelect" src="search/mag_sel.png"
       onmouseover="return searchBox.OnSearchSelectShow()"
       onmouseout="return searchBox.OnSearchSelectHide()"
       alt=""/>
     <input type="text" id="MSearchField" value="Search" accesskey="S"
       onfocus="searchBox.OnSearchFieldFocus(true)"
       onblur="searchBox.OnSearchFieldFocus(false)"
       onkeyup="searchBox.OnSearchFieldChange(event)"/>
     </span><span class="right">
      <a id="MSearchClose" href="javascript:searchBox.CloseResultsWindow()"><img id="MSearchCloseImg"
border="0" src="search/close.png" alt=""/></a>
     </span>
   </div>
</div>
<!-- end header part -->
<!-- Generated by Doxygen 1.8.11 -->
<script type="text/javascript">
var searchBox = new SearchBox("searchBox", "search", false, 'Search');
</script>
</div><!-- top -->
<div id="side-nav" class="ui-resizable side-nav-resizable">
<div id="nav-tree">
 <div id="nav-tree-contents">
  <div id="nav-sync" class="sync"></div>
 </div>
</div>
<div id="splitbar" style="-moz-user-select:none;"
   class="ui-resizable-handle">
</div>
</div>
<script type="text/javascript">
$(document).ready(function(){initNavTree('group_group-ext-mpl.html',");});
</script>
<div id="doc-content">
```

```
<!-- window showing the filter options -->
<div id="MSearchSelectWindow"
 onmouseover="return searchBox.OnSearchSelectShow()"
 onmouseout="return searchBox.OnSearchSelectHide()"
 onkeydown="return searchBox.OnSearchSelectKey(event)">
</div>
<!-- iframe showing the search results (closed by default) -->
<div id="MSearchResultsWindow">
<iframe src="javascript:void(0)" frameborder="0"
  name="MSearchResults" id="MSearchResults">
</iframe>
</div>
<div class="header">
<div class="summary">
<a href="#nested-classes">Classes</a> </div>
<div class="headertitle">
<div class="title">Boost.MPL adapters<div class="ingroups"><a class="el" href="group_group-
ext.html">External adapters</a></div></div>
</div><!--header-->
<div class="contents">
<a name="details" id="details"></a><h2 class="groupheader">Description</h2>
Adapters for Boost.MPL containers. 
<h2 class="groupheader"><a name="nested-classes"></a>
Classes</h2>
struct  
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1integral_c.html">boost::mpl::integral_c< T, v ></a>
 Adapter for IntegralConstants
from the Boost.MPL. <a href="structboost_1_1mpl_1_lintegral__c.html#details">More...</a><br />
 
struct  
class="memItemRight" valign="bottom"><a class="el" href="structboost_1_1mpl_1_1list.html">boost::mpl::list<T
></a>
 Adapter for Boost.MPL lists.
<a href="structboost_1_1mpl_1_1list.html#details">More...</a><br />
 
struct  
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1vector.html">boost::mpl::vector<T></a>
 Adapter for Boost.MPL
vectors. <a href="structboost_1_1mpl_1_1vector.html#details">More...</a><br/>br />
 
</div><!-- contents -->
</div><!-- doc-content -->
```

<!--Copyright Louis Dionne 2013-2017 Distributed under the Boost Software License, Version 1.0. (See accompanying file LICENSE.md or copy at http://boost.org/LICENSE_1_0.txt) --> <!-- boost-no-inspect --> <!-- HTML footer for doxygen 1.8.9.1--> <!-- start footer part --> <div id="nav-path" class="navpath"><!-- id is needed for treeview function! --> </div> </div> </div> </div> </html> Boost Software License - Version 1.0 - August 17th, 2003

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Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200) Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

```
--- end ---
var group_group_ext_mpl =
 ["integral_c", "structboost_1_1mpl_1_1integral__c.html", null ],
 ["list", "structboost_1_1mpl_1_1list.html", null ],
 [ "vector", "structboost_1_1mpl_1_1vector.html", null ]
1:
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
 <copyright>
  <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
 </copyright>
 <copyright>
  <year>2018</year> <holder>Joe Blow, John Coe</holder>
 </copyright>
 <copyright>
  <year>1977</year> <year>1985</year> <holder>Someone else</holder>
 </copyright>
</articleinfo>
</article>
Copyright (c) 2007-2011 Barend Gehrels, Amsterdam, the Netherlands.
```

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```
and comments are changed accordingly.
```

```
<?xml version="1.0" encoding="UTF-8"?>
```

<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"

"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">

<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 \$"

xmlns:xi="http://www.w3.org/2001/XInclude">

```
<title>Copyright Test</title>
```

<articleinfo>

<copyright>

```
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
```

</copyright>

```
<copyright>
```

<year>2018</year> <holder>Joe Blow, John Coe</holder>

- </copyright>
- <copyright>

<year>1977</year> <year>1985</year> <holder>Someone else</holder>

</copyright>

</articleinfo>

</article>

1.11 protobuf 3.5.2

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Original Protocol Buffers design and implementation: Sanjay Ghemawat <sanjay@google.com> Jeff Dean <jeff@google.com> Daniel Dulitz <daniel@google.com> Craig Silverstein Paul Haahr <haahr@google.com> Corey Anderson <corin@google.com> (and many others)

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Documentation: Lisa Carey <lcarey@google.com>

Maven packaging: Gregory Kick <gak@google.com>

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Kevin Ko <kevin.s.ko@gmail.com>

* Small patch to handle trailing slashes in --proto_path flag.

Johan Euphrosine <proppy@aminche.com>

* Small patch to fix Python CallMethod().

Ulrich Kunitz <kune@deine-taler.de>

* Small optimizations to Python serialization.

Leandro Lucarella <llucax@gmail.com>

* VI syntax highlighting tweaks.

* Fix compiler to not make output executable.

Dilip Joseph <dilip.antony.joseph@gmail.com>

* Heuristic detection of sub-messages when printing unknown fields in text format.

Brian Atkinson <nairb774@gmail.com>

* Added @Override annotation to generated Java code where appropriate.

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>

* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>

* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>

* MS Visual Studio error format option.

* Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>

* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>

* Fixed warnings about generated constructors not explicitly initializing

all fields (only present with certain compiler settings).

* Added generation of field number constants.

Wink Saville <wink@google.com>

* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

* Detect whether zlib is new enough in configure script.

* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

- * Optimize Java serialization code when writing a small message to a stream.
- * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- * Clean up some Java warnings.
- * Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>

- * Fixed detection of sched_yield on Solaris.
- * Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

* Fixed minor IBM xIC compiler build issues

* Added atomicops for AIX (POWER)

1.12 curl 7.64.0

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1.13 cyrus-sasl 2.1.0

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1.14 stackwalker 34912.0

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*

* An almost complete rewrite of MySpell for use by

* the Mozilla project has been developed by David Einstein

* (Deinst@world.std.com). David and I are now

* working on parallel development tracks to help

* our respective projects (Mozilla and OpenOffice.org

* and we will maintain full affix file and dictionary

* file compatibility and work on merging our versions

* of MySpell back into a single tree. David has been

* a significant help in improving MySpell.

*

* Special thanks also go to La'szlo' Ne'meth

* <nemethl@gyorsposta.hu> who is the author of the

* Hungarian dictionary and who developed and contributed

* the code to support compound words in MySpell

* and fixed numerous problems with the encoding

* case conversion tables.

* */

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1.25 webrtc 72

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//*
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*/
/*
* SpanDSP - a series of DSP components for telephony
* g722_decode.c - The ITU G.722 codec, decode part.
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AutobahnAndroid

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* SpanDSP - a series of DSP components for telephony

*

* g711.h - In line A-law and u-law conversion routines

*

* Written by Steve Underwood <steveu@coppice.org>

*

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*

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* ones who might try to proprietize my work and use it to my

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* detriment.
```

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*/
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*/

/*

* \$Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche \$

* Portable Audio I/O Library

* Memory barrier utilities

*

* Author: Bjorn Roche, XO Audio, LLC

*

* This program uses the PortAudio Portable Audio Library.

* For more information see: http://www.portaudio.com

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/*

* \$Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche \$

* Portable Audio I/O Library

* Ring Buffer utility.

*

- * Author: Phil Burk, http://www.softsynth.com
- * modified for SMP safety on Mac OS X by Bjorn Roche
- * modified for SMP safety on Linux by Leland Lucius

* also, allowed for const where possible

- * modified for multiple-byte-sized data elements by Sven Fischer
- *
- * Note that this is safe only for a single-thread reader and a

* single-thread writer.

*

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/*

* Written by Wilco Dijkstra, 1996. The following email exchange establishes the

* license.

*

* From: Wilco Dijkstra < Wilco.Dijkstra@ntlworld.com>

- * Date: Fri, Jun 24, 2011 at 3:20 AM
- * Subject: Re: sqrt routine
- * To: Kevin Ma <kma@google.com>

* Hi Kevin,

- * Thanks for asking. Those routines are public domain (originally posted to
- * comp.sys.arm a long time ago), so you can use them freely for any purpose.
- * Cheers,
- * Wilco
- *
- * ----- Original Message -----
- * From: "Kevin Ma" <kma@google.com>
- * To: <Wilco.Dijkstra@ntlworld.com>
- * Sent: Thursday, June 23, 2011 11:44 PM
- * Subject: Fwd: sqrt routine
- * Hi Wilco,
- * I saw your sqrt routine from several web sites, including
- * http://www.finesse.demon.co.uk/steven/sqrt.html.
- * Just wonder if there's any copyright information with your Successive
- * approximation routines, or if I can freely use it for any purpose.
- * Thanks.
- * Kevin
- */
- /*
- * Copyright(c)1995,97 Mark Olesen <olesen@me.QueensU.CA>
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- * copyright).
- *
- * It is also implicitly understood that bug fixes and improvements
- * should make their way back to the general Internet community so
- * that everyone benefits.
- */

1.26 openh264 2.0.0

1.26.1 Available under license :

Contributors to the OpenH264 project

Patrick Ai Sijia Chen ZhaoZheng Chu Paley Du Martin Ettl Andreas Gal Xu Guang Licai Guo Yi Guo Horace Huang Steven Huang Ethan Hugg Cullen Jennings Zhaofeng Jia Derrick Jin Jesse Li Jifei Li Kai Li Karina Li Matt Li Xiang Li Bourne Ling Alex Liu Wayne Liu Varun Patil Eric Rescorla Adam Roach Sawyer Shan Siping Tao Martin Storsj Brion Vibber James Wang Juanny Wang Zhiliang Wang Herv Willems Gregory J Wolfe Katherine Wu Guang Xu Jeffery Xu Gang Yang Li Yao

Jiessie Zhang Rory Zhang Volvet Zhang Ling Zhu James Zhu Dong Zhang Haibo Zhu Huade Shi include \$(SRC_PATH)build/arch.mk SHAREDLIBSUFFIX = soSHAREDLIBSUFFIXFULLVER=\$(SHAREDLIBSUFFIX).\$(FULL_VERSION) SHAREDLIBSUFFIXMAJORVER=\$(SHAREDLIBSUFFIX).\$(SHAREDLIB_MAJORVERSION) SHLDFLAGS = -WI,-soname,\$(LIBPREFIX)\$(PROJECT_NAME).\$(SHAREDLIBSUFFIXMAJORVER) CFLAGS += -fPIC -fstack-protector-all LDFLAGS += -lpthread STATIC LDFLAGS += -lpthread -lm ifeq (\$(ASM_ARCH), x86) ifeq (\$(ARCH), x86 64) ASMFLAGS += -f elf64 else ASMFLAGS += -f elf endif endif Copyright (c) 2013, Cisco Systems All rights reserved.

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1.27 open-Idap 2.4.53

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1.28 picojson 1.3.1

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1.29 tinythread 1.1

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1.30 libjpeg-turbo 1.4.90

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This file contains the following sections:

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User documentation:	
install.doc	How to configure and install the IJG software.
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rdjpgcom, and wrjpgcom.	
*.1	Unix-style man pages for programs (same info as usage.doc).
wizard.doc	Advanced usage instructions for JPEG wizards only.
change.log	Version-to-version change highlights.
Programmer and internal documentation:	
libjpeg.doc	How to use the JPEG library in your own programs.
example.c	Sample code for calling the JPEG library.
structure.do	c Overview of the JPEG library's internal structure.
filelist.doc	Road map of IJG files.
coderules.de	c Coding style rules please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,

plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES

We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from: Literature Department C-Cube Microsystems, Inc. 1778 McCarthy Blvd. Milpitas, CA 95035 phone (408) 944-6300, fax (408) 944-6314 A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1 send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.31 easywsclient 1.0

1.31.1 Available under license :

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1.32 websocketpp 0.8.2

1.32.1 Available under license :

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Bundled Libraries:

***** Base 64 Library (base64/base64.hpp) ***** base64.hpp is a repackaging of the base64.cpp and base64.h files into a single header suitable for use as a header only library. This conversion was done by Peter Thorson (webmaster@zaphoyd.com) in 2012. All modifications to the code are redistributed under the same license as the original, which is listed below.

base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

****** SHA1 Library (sha1/sha1.hpp) ******

shal.hpp is a repackaging of the shal.cpp and shal.h files from the shallshal library (http://code.google.com/p/smallshal/) into a single header suitable for use as a header only library. This conversion was done by Peter Thorson (webmaster@zaphoyd.com) in 2013. All modifications to the code are redistributed under the same license as the original, which is listed below.

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***** MD5 Library (common/md5.hpp) ******

md5.hpp is a reformulation of the md5.h and md5.c code from http://www.opensource.apple.com/source/cups/cups-59/cups/md5.c to allow it to function as a component of a header only library. This conversion was done by Peter Thorson (webmaster@zaphoyd.com) in 2012 for the WebSocket++ project. The changes are released under the same license as the original (listed below)

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L. Peter Deutsch ghost@aladdin.com

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1.33 qt 5.12.9

1.33.1 Available under license :

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Version 3, 29 June 2007

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1.34 rsamd5c++inplementation 1.02 1.34.1 Available under license :

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1.35 breakpad 0.1

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1.36 blowfishc++encryptionalgorithm 1.0

1.36.1 Available under license :

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The Blowfish Encryption Algorithm Block cipher: 64-bit block Variable key length: 32 bits to 448 bits Designed by Bruce Schneier Much faster than DES and IDEA Unpatented and royalty-free No license required

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Cryptography: scanning discontinued 2010-11-29 per Dan Gardner (dangardn)

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