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This package was debianized by Nathan Scott nathans@debian.org on Tue, 26 Feb 2002 13:25:26 +1100

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1.4 audit 2.8.4 :4.el7

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1.5 beaker 1.4.2

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1.6 BeautifulSoup 4.3.2 :20131002

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1.7 Boost 1.60.0

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```
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* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
*/
#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\!\!>\!\!\backslash 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>\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>>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 \parallel (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 != 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>\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>\n";
 }
 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/>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><a name=\"bsl-converted\"></a>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 <tr>\n <td><pre>"
        << i->second.first << "</pre>\n "
        << i->second.second << "</pre></td>\n </tr>\n</table>\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/>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"
  "<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) << " ";
      ++fi;
    os << "\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()) \parallel (0 == compare_paths(dep->second, last_dep->second)))
      break;
    }
 os \ll "\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);
 }
[article Copyright Test
[quickbook 1.5]
[copyright 1963-1965 Jane Doe, 2018 Joe Blow, John Coe]
[copyright 1977,1985 Someone else]
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
<?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>1964der>1965</p
 </copyright>
 <copyright>
  <year>2018</year> <holder>Joe Blow, John Coe</holder>
 </copyright>
 <copyright>
  <year>1977</year> <year>1985holder>Someone else/holder>
 </copyright>
</articleinfo>
</article>
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]
Maybe this should pass?
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on
Wed, 17 July 2002, 19:27:00 +0400.
Copyright:
 /+\
 +\ Copyright 1993-2002 Christopher Seiwald and Perforce Software, Inc.
 \+/
```

This is Release 2.4 of Jam/MR, a make-like program.

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Distributed under the Boost Software License, Version 1.0. (See accompanying file LICENSE_1_0.txt or http://www.boost.org/LICENSE_1_0.txt) 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.)

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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) \
   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>\
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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// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/container for documentation.
//
#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
\verb|#define BOOST_CONTAINER_CONTAINER_DETAIL\_MPL\_HPP|
#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif
#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif
#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <boost/intrusive/detail/mpl.hpp>
#include <cstddef>
namespace boost {
namespace container {
namespace container_detail {
using boost::move_detail::integral_constant;
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::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
```

```
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
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::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;
template <class Pair>
struct select1st
 typedef Pair
                          argument_type;
 typedef typename Pair::first_type result_type;
 template<class OtherPair>
 const typename Pair::first_type& operator()(const OtherPair& x) const
 { return x.first; }
 const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
 { return x; }
};
} //namespace container_detail {
} //namespace container {
} //namespace boost {
#include <boost/container/detail/config_end.hpp>
#endif //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
//
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//
```

```
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// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)
// See http://www.boost.org/libs/interprocess for documentation.
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP
#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif
#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif
#include <cstddef>
namespace boost {
namespace interprocess {
namespace ipcdetail {
template <class T, T val>
struct integral_constant
 static const T value = val;
 typedef integral_constant<T,val> type;
};
template< bool C_>
struct bool_: integral_constant<bool, C_>
 static const bool value = C_;
};
typedef bool_<true>
                      true_;
typedef bool_<false>
                      false_;
typedef true_ true_type;
typedef false_false_type;
typedef char yes_type;
struct no_type
 char padding[8];
```

```
};
template <bool B, class T = void>
struct enable_if_c {
typedef T type;
template <class T>
struct enable_if_c<false, T> { };
template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> { };
template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> { };
template <class T, class U>
class is_convertible
 typedef char true_t;
 class false_t { char dummy[2]; };
 static true_t dispatch(U);
 static false_t dispatch(...);
 static T trigger();
 public:
 static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
template<
   bool C
 , typename T1
 , typename T2
struct if_c
 typedef T1 type;
};
template<
   typename T1
 , typename T2
struct if_c<false,T1,T2>
 typedef T2 type;
};
template<
```

```
typename T1
  , typename T2
  , typename T3
struct if_
 typedef typename if_c<0 != T1::value, T2, T3>::type type;
};
template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
 template<class OtherPair>
 const typename Pair::first_type& operator()(const OtherPair& x) const
 { return x.first; }
 const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
 { return x; }
};
// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
 typedef T type;
 const T& operator()(const T& x) const
 { return x; }
};
template<std::size_t S>
struct ls_zeros
 static const std::size_t value = (S \& std::size_t(1)) ? 0 : (1u + 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;
```

};

} //namespace ipcdetail {

} //namespace interprocess {

} //namespace boost {

#endif //#ifndef BOOST INTERPROCESS DETAIL MPL HPP

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Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)
--- end ---
<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 V1.77.1">
k rel="home" href="../index.html" title="Chapter 1. Boost.TypeTraits">
k rel="up" href="../index.html" title="Chapter 1. Boost.TypeTraits">
k rel="next" href="examples.html" title="Examples">
</head>
<br/>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
<img alt="Boost C++ Libraries" width="277" height="86" src="../../../boost.png">
<a href="../../../index.html">Home</a>
<a href="../../../libs/libraries.htm">Libraries</a>
<a href="http://www.boost.org/users/people.html">People</a>
<a href="http://www.boost.org/users/faq.html">FAQ</a>
<a href="../../../more/index.htm">More</a>
<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/home.png" alt="Home"></a><a accesskey="n"
href="examples.html"><img src="../../../doc/src/images/next.png" alt="Next"></a>
</div>
<div class="section">
<div class="titlepage"><div><div><h2 class="title" style="clear: both">
<a name="boost_typetraits.mpl"></a><a class="link" href="mpl.html" title="MPL Interoperability">MPL
```

```
Interoperability</a>
</h2></div></div>
>
  All the value based traits in this library conform to MPL's requirements for
  an <a href="../../../libs/mpl/doc/refmanual/integral-constant.html" target="_top">Integral
  Constant type</a>.
 Please note that these types no longer inherit from <code class="computeroutput"><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">true </span></code> or
  <code class="computeroutput"><span class="identifier">mpl</span><span class="special">:::</span><span
class="identifier">false_</span></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>
<div class="copyright-footer">Copyright &#169; 2000, 2011 Adobe Systems Inc, David
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target="_top">http://www.boost.org/LICENSE_1_0.txt</a>)
  </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/home.png" alt="Home"></a><a accesskey="n"
href="examples.html"><img src="../../../doc/src/images/next.png" alt="Next"></a>
</div>
</body>
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]
```

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.

```
[endsect]
#!/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' \land (?P < prefix > \W^*)(\(c \land))? \land s^*? copyright \land s^*(\(c \land))? \land s + \d\{4\}(\s^* - \s^* \land d\{4\})? \land s + (?P < name > .+?) \land s^* \land s^*
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)
<?xml version="1.0" encoding="utf-8"?>
<!-- Copyright (c) 2001-2006 CrystalClear Software, Inc.
        Subject to the Boost Software License, Version 1.0.
        (See accompanying file LICENSE_1_0.txt or http://www.boost.org/LICENSE_1_0.txt)
-->
<section id="date_time.license">
  <title>Boost Date-Time Library License</title>
  <bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
  <!--
  <ulink url="../../index.htm">
      <imagedata align="left"
```

```
format="GIF"
    fileref="../../boost.png"
    alt="C++ Boost" />
  </ulink>-->
<!--hr /-->
<para>
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</para>
<!--hr / -->
&#169: 2000-2002
</section>
[/
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1.8 boost 1.53.0 :27.el7

1.8.1 Available under license:

Index: boost/mpl/print.hpp

```
--- boost/mpl/print.hpp (revision 83411)
+++ boost/mpl/print.hpp (working copy)
@@ -45,22 +45,21 @@
  : mpl::identity<T>
#if defined(__MWERKS__)
  , aux::print_base
-#endif
+#endif
#if defined(BOOST MSVC)
  enum { n = sizeof(T) + -1 };
#elif defined(__MWERKS__)
  void f(int);
-#else
  enum {
-# if defined(__EDG_VERSION__)
       aux::dependent_unsigned<T>::value > -1
-# else
       sizeof(T) > -1
-# endif
     }:
-#endif
+#elif defined(__EDG_VERSION__)
+ enum { n = aux::dependent_unsigned<T>::value > -1 };
```

```
+#elif defined(BOOST GCC)
+ enum { n1 };
+ enum { n2 };
+ enum { n = n1 != n2 };
+#else
+ enum { n = sizeof(T) > -1 };
+#endif
};
#if defined(BOOST MSVC)
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Beman Dawes (bdawes@acm.org)
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--- end ---

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

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

[&]quot;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>1964der>1965</p
  </copyright>
 <copyright>
  <year>2018</year> <holder>Joe Blow, John Coe</holder>
  </copyright>
 <copyright>
  <year>1977</year> <year>1985</year> <holder>Someone else</holder>
</articleinfo>
</article>
[article Copyright Test
[quickbook 1.5]
[copyright 1963-1965 Jane Doe, 2018 Joe Blow, John Coe]
[copyright 1977,1985 Someone else]
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]
Maybe this should pass?
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
1
/*
* Copyright (c) 2003 Dr John Maddock
* Use, modification and distribution is subject to the
* Boost Software License, Version 1.0. (See accompanying file
* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
*/
#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>\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 != 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>\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/>br>\n";
  ++i2;
 }
 os << "</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><a name=\"bsl-converted\"></a>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></td>\n </tr>\n</table>\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"
   "<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";
  }
  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) << " ";
      ++fi;
    os << "\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);
 }
 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()) \parallel (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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```

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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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```
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This is Release 2.4 of Jam/MR, a make-like program.

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Distributed under the Boost Software License, Version 1.0. (See accompanying file LICENSE_1_0.txt or http://www.boost.org/LICENSE_1_0.txt) 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.

```
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.)
Boost.Geometry (aka GGL, Generic Geometry Library)
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Copyright (c) 2009-2012 Mateusz Loskot, London, UK.
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```

Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

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<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--
<ulink url="../../index.htm">
  <imagedata align="left"
        format="GIF"
    fileref="../../boost.png"
    alt="C++ Boost" />
  </ulink>-->
<!--hr /-->
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1
[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]: that includes a number of
rather intrusive
workarounds for broken compilers.
Purely as an implementation detail, this
means that `__true_type` inherits from [@../../../libs/mpl/doc/refmanual/bool.html `boost::mpl::true_`],
` false type` inherits
from [@../../../libs/mpl/doc/refmanual/bool.html `boost::mpl::false_`], and `__integral_constant<T, v>` inherits
[@../../../libs/mpl/doc/refmanual/integral-c.html `boost::mpl::integral_c<T,v>`] (provided `T` is not `bool`)
[endsect]
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k rel="stylesheet" href="../../../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.77.1">
<link rel="home" href="../index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">
k rel="up" href="../index.html" title="Chapter 1. Boost.TypeTraits">
k rel="next" href="examples.html" title="Examples">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
<img alt="Boost C++ Libraries" width="277" height="86" src="../../../boost.png">
<a href="../../../index.html">Home</a>
<a href="../../../libs/libraries.htm">Libraries</a>
```

```
<a href="http://www.boost.org/users/people.html">People</a>
<a href="http://www.boost.org/users/faq.html">FAQ</a>
<a href="../../../more/index.htm">More</a>
<hr>
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<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/home.png" alt="Home"></a><a accesskey="n"
href="examples.html"><img src="../../../doc/src/images/next.png" alt="Next"></a>
</div>
<div class="section boost_typetraits_mpl">
<div class="titlepage"><div><div><h2 class="title" style="clear: both">
<a name="boost_typetraits.mpl"></a><a class="link" href="mpl.html" title="MPL Interoperability">MPL
Interoperability</a>
</h2></div></div>
>
  All the value based traits in this library conform to MPL's requirements for
  an <a href="../../../libs/mpl/doc/refmanual/integral-constant.html" target="_top">Integral
  Constant type</a>: that includes a number of rather intrusive workarounds
  for broken compilers.
 Purely as an implementation detail, this means that <code class="computeroutput"><a class="link"
href="reference/integral_constant.html" title="integral_constant">true_type</a></code>
  inherits from <a href="../../../libs/mpl/doc/refmanual/bool.html" target=" top"><code
class="computeroutput"><span class="identifier">boost</span><span class="special">::</span><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">true_</span></code></a>,
  <code class="computeroutput"><a class="link" href="reference/integral constant.html"</pre>
title="integral constant">false type</a></code>
  inherits from <a href="../../../libs/mpl/doc/refmanual/bool.html" target="_top"><code
class="computeroutput"><span class="identifier">boost</span><span class="special">:::</span><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">false_</span></code></a>,
  and <code class="computeroutput"><a class="link" href="reference/integral constant.html"
title="integral_constant">integral_constant</a><span class="special"><</span><span
class="identifier">T</span><span class="special">,</span>
  <span class="identifier">v</span><span class="special">></span></code>
  inherits from <a href="../../../libs/mpl/doc/refmanual/integral-c.html" target="_top"><code
class="computeroutput"><span class="identifier">boost</span><span class="special">:::</span><span
class="identifier">mpl</span><span class="special">:::</span><span class="identifier">integral_c</span><span
class="special"><</span><span class="identifier">T</span><span class="special">,</span><span
class="identifier">v</span><span class="special">>></span></code></a>
  (provided <code class="computeroutput"><span class="identifier">T</span></code> is not <code
class="computeroutput"><span class="keyword">bool</span></code>)
 </div>
```

```
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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/home.png" alt="Home"></a><a accesskey="n"
href="examples.html"><img src="../../../doc/src/images/next.png" alt="Next"></a>
</div>
</body>
</html>
[/
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1
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// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/container for documentation.
//
#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#if (defined _MSC_VER) && (_MSC_VER >= 1200)
# pragma once
#endif
#include <cstddef>
```

```
namespace boost {
namespace container {
namespace container_detail {
template <class T, T val>
struct integral_constant
 static const T value = val;
 typedef integral_constant<T,val> type;
};
template< bool C_>
struct bool_: integral_constant<bool, C_>
 static const bool value = C_;
 operator bool() const { return bool_::value; }
};
typedef bool_<true>
                         true_;
typedef bool_<false>
                         false_;
typedef true_ true_type;
typedef false_false_type;
typedef char yes_type;
struct no_type
 char padding[8];
};
template <bool B, class T = void>
struct enable_if_c {
typedef T type;
};
template <class T>
struct enable_if_c<false, T> { };
template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};
template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};
template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};
template <class T, class U>
```

```
class is_convertible
 typedef char true_t;
 class false_t { char dummy[2]; };
 static true_t dispatch(U);
 static false_t dispatch(...);
 static T trigger();
 public:
 enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
};
template<
   bool C
  , typename T1
  , typename T2
struct if_c
  typedef T1 type;
};
template<
   typename T1
  , typename T2
struct if_c<false,T1,T2>
  typedef T2 type;
};
template<
   typename T1
  , typename T2
  , typename T3
struct if_
 typedef typename if_c<0 != T1::value, T2, T3>::type type;
};
template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
 template<class OtherPair>
 const typename Pair::first_type& operator()(const OtherPair& x) const
 { return x.first; }
```

```
const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
 { return x; }
};
// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
 typedef T type;
 const T& operator()(const T& x) const
 { return x; }
};
template<std::size_t S>
struct ls_zeros
 static const std::size_t value = (S \& std::size_t(1)) ? 0 : (1u + 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;
};
template <typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };
} //namespace container_detail {
} //namespace container {
} //namespace boost {
#endif //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
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```

```
// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/interprocess for documentation.
#ifndef BOOST INTERPROCESS DETAIL MPL HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP
#if (defined _MSC_VER) && (_MSC_VER >= 1200)
# pragma once
#endif
#include <cstddef>
namespace boost {
namespace interprocess {
namespace ipcdetail {
template <class T, T val>
struct integral_constant
 static const T value = val;
 typedef integral_constant<T,val> type;
};
template< bool C_>
struct bool_: integral_constant<bool, C_>
 static const bool value = C_;
};
typedef bool_<true>
                      true_;
typedef bool_<false>
                      false_;
typedef true_ true_type;
typedef false_false_type;
typedef char yes_type;
struct no_type
 char padding[8];
};
template <bool B, class T = void>
struct enable_if_c {
typedef T type;
};
```

```
template <class T>
struct enable_if_c<false, T> { };
template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> { };
template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> { };
template <class T, class U>
class is_convertible
 typedef char true_t;
 class false_t { char dummy[2]; };
 static true_t dispatch(U);
 static false_t dispatch(...);
 static T trigger();
 public:
 static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
template<
   bool C
 , typename T1
 , typename T2
struct if_c
 typedef T1 type;
};
template<
   typename T1
 , typename T2
struct if_c<false,T1,T2>
 typedef T2 type;
};
template<
   typename T1
 , typename T2
 , typename T3
 >
struct if_
{
```

```
typedef typename if_c<0 != T1::value, T2, T3>::type type;
};
template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
 template<class OtherPair>
 const typename Pair::first_type& operator()(const OtherPair& x) const
 { return x.first; }
 const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
 { return x; }
};
// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
 typedef T type;
 const T& operator()(const T& x) const
 { return x; }
};
template<std::size_t S>
struct ls_zeros
 static\ const\ std::size\_t\ value = (S\ \&\ std::size\_t(1))\ ?\ 0: (1u+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;
};
} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {
```

```
#endif //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
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//
      http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/intrusive for documentation.
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP
#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {
typedef char one;
struct two {one _[2];};
template< bool C_>
struct bool_
 static const bool value = C_;
};
typedef bool_<true>
                     true_;
typedef bool_<false>
                     false_;
typedef true_ true_type;
typedef false_false_type;
typedef char yes_type;
struct no_type
 char padding[8];
};
template <bool B, class T = void>
struct enable_if_c {
typedef T type;
};
```

```
template <class T>
struct enable_if_c<false, T> { };
template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T>{ };
template<class F, class Param>
struct apply
 typedef typename F::template apply<Param>::type type;
template <class T, class U>
class is_convertible
 typedef char true_t;
 class false_t { char dummy[2]; };
 static true_t dispatch(U);
 static false_t dispatch(...);
 static const T &trigger();
 public:
 static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
template<
  bool C
 , typename T1
 , typename T2
struct if_c
 typedef T1 type;
};
template<
   typename T1
 , typename T2
struct if_c<false,T1,T2>
 typedef T2 type;
};
template<
   typename C
 , typename T1
  , typename T2
```

```
struct if_
 typedef typename if_c<0 != C::value, T1, T2>::type type;
};
template<
  bool C
 , typename F1
 , typename F2
struct eval_if_c
 : if_c<C,F1,F2>::type
{};
template<
  typename C
 , typename T1
 , typename T2
struct eval_if
 : if_<C,T1,T2>::type
{};
// identity is an extension: it is not part of the standard.
template <class T>
struct identity
 typedef T type;
};
#if defined(BOOST_MSVC) || defined(__BORLANDC_)
{\tt\#define\ BOOST\_INTRUSIVE\_TT\_DECL\ \_\_cdecl}
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(_BORLAND__) && !defined(_WIN64) &&
!defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif
template <typename T>
struct is_unary_or_binary_function_impl
{ static const bool value = false; };
// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
```

#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS template <typename R> struct is_unary_or_binary_function_impl<R (*)()> { static const bool value = true; }; template <typename R> struct is_unary_or_binary_function_impl<R (*)(...)> { static const bool value = true; }; #else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS template <typename R> struct is_unary_or_binary_function_impl<R (__stdcall*)()> { static const bool value = true; }; #ifndef _MANAGED template <typename R> struct is_unary_or_binary_function_impl<R (__fastcall*)()> { static const bool value = true; }; #endif template <typename R> struct is_unary_or_binary_function_impl<R (__cdecl*)()> { static const bool value = true; }; template <typename R> struct is_unary_or_binary_function_impl<R (__cdecl*)(...)> { static const bool value = true; }; #endif // see boost ticket #4094 // avoid duplicate definitions of is_unary_or_binary_function_impl #ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS template <typename R, class T0> struct is_unary_or_binary_function_impl<R (*)(T0)> { static const bool value = true; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

struct is_unary_or_binary_function_impl<R (*)(T0...)>

template <typename R, class T0>

{ static const bool value = true; };

```
template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>
{ static const bool value = true; };
#ifndef _MANAGED
template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{ static const bool value = true; };
#endif
template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>
{ static const bool value = true; };
template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{ static const bool value = true; };
#endif
// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{ static const bool value = true; };
template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{ static const bool value = true; };
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{ static const bool value = true; };
#ifndef _MANAGED
template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{ static const bool value = true; };
#endif
```

```
template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{ static const bool value = true; };
template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{ static const bool value = true; };
#endif
template <typename T>
struct is_unary_or_binary_function_impl<T&>
{ static const bool value = false; };
template<typename T>
struct is_unary_or_binary_function
{ static const bool value = is_unary_or_binary_function_impl<T>::value; };
//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;
template <typename T>
struct alignment_of_hack
 char c;
 Tt;
 alignment_of_hack();
};
template <unsigned A, unsigned S>
struct alignment_logic
 static const std::size_t value = A < S ? A : S;
};
template< typename T >
struct alignment_of
 static const std::size_t value = alignment_logic
      < sizeof(alignment_of_hack<T>) - sizeof(T)
      , sizeof(T)
      >::value;
};
template <typename T, typename U>
struct is_same
 typedef char yes_type;
```

```
struct no_type
   char padding[8];
 };
 template <typename V>
 static yes_type is_same_tester(V*, V*);
 static no_type is_same_tester(...);
 static T *t;
 static U *u;
 static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};
template<typename T>
struct add_const
{ typedef const T type; };
template<typename T>
struct remove_const
{ typedef T type; };
template<typename T>
struct remove_const<const T>
{ typedef T type; };
template<typename T>
struct remove_cv
{ typedef T type; };
template<typename T>
struct remove_cv<const T>
{ typedef T type; };
template<typename T>
struct remove_cv<const volatile T>
{ typedef T type; };
template<typename T>
struct remove_cv<volatile T>
{ typedef T type; };
template<class T>
struct remove_reference
 typedef T type;
};
```

```
template<class T>
struct remove_reference<T&>
 typedef T type;
template<class Class>
class is_empty_class
 template <typename T>
 struct empty_helper_t1 : public T
   empty_helper_t1();
  int i[256];
 };
 struct empty_helper_t2
 { int i[256]; };
 public:
 static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};
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;
};
} //namespace detail
} //namespace intrusive
} //namespace boost
#include <boost/intrusive/detail/config_end.hpp>
```

1.9 boost 1.67.0

1.9.1 Available under license:

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1.10 bzip2 1.0.6 :13.el7

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Julian Seward, jseward@bzip.org bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.11 chartist-js 0.11.0

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1.12 chartist-plugin-axistitle 0.0.3

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1.13 chartist-plugin-legend 0.6.1

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1.14 chartist-plugin-tooltip 0.0.12

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1.15 chartist-plugin-zoom 0.4.0

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1.16 CherryPy 3.1.2

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1.17 cpp-elasticsearch 1.0

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1.18 curl 7.29.0 :51.el7

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1.19 cycler 0.9.0

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1.20 cyrus-sasl 2.1.26 :23.el7

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1.21 decorator 3.0.0

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1.22 Didier FEC N/A

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Reed-Solomon encoding/erasure decoding

Implementation of the algorithms described in Efficient erasure decoding of Reed-Solomon codes http://arxiv.org/abs/0901.1886v1

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1.23 e2fsprogs 1.42.9 :13.el7

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Ty Coon, President of Vice
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Index: tdbsa/tdb.c

```
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
```

- Unix SMB/CIFS implementation.
- + trivial database library standalone version
- trivial database library private includes

-

```
- Copyright (C) Andrew Tridgell
                                      2005
+ Copyright (C) Andrew Tridgell
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+ Copyright (C) Jeremy Allison
                                      2000-2006
+ Copyright (C) Paul `Rusty' Russell
                                       2000
  ** NOTE! The following LGPL license applies to the tdb
  ** library. This does NOT imply that all of Samba is released
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
# In order to use this stub, the following makefile variables must be defined.
#BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
all:: image
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
image: $(BSD_LIB)
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB).
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
 `echo $(my_dir) | sed -e 's;lib/;; `\$(BSD_LIB) $(BSD_LIB))
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
 $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
install-strip: install
install-shlibs-strip: install-shlibs
uninstall-shlibs uninstall::
```

\$(RM) -f \$(DESTDIR)\$(BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

clean::

\$(RM) -rf pic

\$(RM) -f \$(BSD_LIB)

\$(RM) -f ../\$(BSD_LIB)

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Gadi Oxman, August 1995

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1.24 elfutils 0.172 :2.el7

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src/bdf/bdflib.c

src/bdf/module.mk

src/bdf/README

src/bdf/rules.mk

src/pcf/module.mk

src/pcf/pcf.c

src/pcf/pcf.h

src/pcf/pcfdrivr.c

src/pcf/pcfdrivr.h

src/pcf/pcferror.h

src/pcf/pcfread.c

src/pcf/pcfread.h

src/pcf/pcfutil.c

src/pcf/pcfutil.h

src/pcf/README

src/pcf/rules.mk

src/gzip/adler32.c

src/gzip/infblock.c

src/gzip/infblock.h

src/gzip/infcodes.c

src/gzip/infcodes.h

src/gzip/inffixed.h

src/gzip/inflate.c

src/gzip/inftrees.c

src/gzip/inftrees.h

src/gzip/infutil.c

src/gzip/infutil.h

src/gzip/zconf.h

src/gzip/zlib.h

```
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF
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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.)

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Version 3, 29 June 2007

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

```
/* Assembler pseudos to introduce constants of various size. */
#define ASM_BYTE "\t.byte\t"
#define ASM SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */
/* This was suggested, but it shouldn't be right for DBX output. -- RMS
 #define ASM OUTPUT SOURCE FILENAME(FILE, NAME) */
/* Define the syntax of labels and symbol definitions/declarations. */
/* This is how to output an assembler line
 that says to advance the location counter by SIZE bytes. */
#define ASM OUTPUT SKIP(FILE,SIZE) \
fprintf (FILE, "\t.space "HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))
/* Define the syntax of labels and symbol definitions/declarations. */
/* This says how to output an assembler line
 to define a global common symbol. */
#define ASM OUTPUT COMMON(FILE, NAME, SIZE, ROUNDED) \
(fputs (".comm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))
/* This says how to output an assembler line
 to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
(fputs (".lcomm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))
#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
(fputs (".lcomm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif
/* This is how to output an assembler line
 that says to advance the location counter
 to a multiple of 2**LOG bytes. */
```

```
#define ASM_OUTPUT_ALIGN(FILE,LOG) \
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))
/* This is how to store into the string BUF
 the symbol_ref name of an internal numbered label where
 PREFIX is the class of label and NUM is the number within the class.
 This is suitable for output with `assemble_name'. */
#define ASM GENERATE INTERNAL LABEL(BUF, PREFIX, NUMBER) \
  sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))
/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"
/* Sequent has some changes in the format of DBX symbols. */
#define DBX NO XREFS 1
/* Don't split DBX symbols into continuations. */
#define DBX CONTIN LENGTH 0
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc.
Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007
@c This file is intended to be included in another file.
@display
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}
Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@end display
```

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summary="Navigation header">LicensePrevth width="60%"

align="center">Chapter1.Status<a accesskey="n"

href="bugs.html">Next<hr/></div><div class="section"><div

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```
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  <div class="literallayout"><br/>
GCCRUNTIMELIBRARYEXCEPTION<br />
Version3.1.31March2009<br/>
<br/>>
Copyright(C)2009<a class="link" href="http://www.fsf.org" target=" top">FreeSoftwareFoundation,Inc.</a><br/>br />
<br />
Everyoneispermittedtocopyanddistributeverbatimcopiesofthis<br/>br/>
licensedocument,butchangingitisnotallowed.<br/>
<br/>>
ThisGCCRuntimeLibraryException("Exception")isanadditional<br/>
permissionundersection7oftheGNUGeneralPublicLicense,version<br/>br/>
3("GPLv3").Itappliestoagivenfile(the"RuntimeLibrary")that<br/>
bearsanoticeplacedbythecopyrightholderofthefilestatingthat<br/>br/>
thefileisgovernedbyGPLv3alongwiththisException.<br/>
<br />
WhenyouuseGCCtocompileaprogram,GCCmaycombineportionsof<br/><br/>>
certainGCCheaderfilesandruntimelibrarieswiththecompiled<br/><br/>br />
program. The purpose of this Exception is to allow compilation of <br/> />
non-GPL(includingproprietary)programstouse,inthisway,the<br/>br/>
headerfilesandruntimelibrariescoveredbythisException.<br/>
<br/>
/>
<br />
0.Definitions.<br/>
<br/>>
Afileisan"IndependentModule"ifiteitherrequirestheRuntime<br/>br/>
LibraryforexecutionafteraCompilationProcess,ormakesuseofan<br/>br/>
interfaceprovidedbytheRuntimeLibrary,butisnototherwisebased<br/>br/>
ontheRuntimeLibrary.<br/>
<br />
"GCC"meansaversionoftheGNUCompilerCollection,withorwithout<br/>br/>
modifications,governedbyversion3(oraspecifiedlaterversion)of<br/>br/>
theGNUGeneralPublicLicense(GPL)withtheoptionofusingany<br/><br/>>
subsequentversionspublishedbytheFSF.<br/>
<br/>>
"GPL-compatibleSoftware"issoftwarewhoseconditionsofpropagation,<br/>
modificationandusewouldpermitcombinationwithGCCinaccordwith<br/>
thelicenseofGCC.<br/>
<br />
"TargetCode"referstooutputfromanycompilerforarealorvirtual<br/>
targetprocessorarchitecture,inexecutableformorsuitablefor<br/>br/>
inputtoanassembler,loader,linkerand/orexecution<br/><br/>>
phase.Notwithstandingthat,TargetCodedoesnotincludedatainany<br/>>br/>
formatthatisusedasacompilerintermediaterepresentation,orused<br/>br/>
forproducingacompilerintermediaterepresentation.<br/>
<br/>
<br/>
/>
<br />
The "Compilation Process" transforms code entirely represented in <br/> />
non-intermediatelanguagesdesignedforhuman-writtencode,and/orin<br/>br/>
```

```
JavaVirtualMachinebytecode,intoTargetCode.Thus,forexample,<br/>
useofsourcecodegeneratorsandpreprocessorsneednotbeconsidered<br/>br/>
partoftheCompilationProcess,sincetheCompilationProcesscanbe<br/>br/>
understoodasstartingwiththeoutputofthegeneratorsor<br/>>br/>
preprocessors.<br/>
<br />
ACompilationProcessis"Eligible"ifitisdoneusingGCC,aloneor<br/>
withotherGPL-compatiblesoftware, orifitisd one without using any <br/> <br/> />
workbasedonGCC.Forexample,usingnon-GPL-compatibleSoftwareto<br/>br/>
optimizeanyGCCintermediaterepresentationswouldnotqualifyasan<br/>br/>
EligibleCompilationProcess.<br/>
<br />
1.GrantofAdditionalPermission.<br/>
<br />
YouhavepermissiontopropagateaworkofTargetCodeformedby<br/><br/>
combiningtheRuntimeLibrarywithIndependentModules,evenifsuch<br/>br/>
propagationwouldotherwiseviolatethetermsofGPLv3,providedthat<br/>br/>
allTargetCodewasgeneratedbyEligibleCompilationProcesses.You<br/>
maythenconveysuchacombinationundertermsofyourchoice, <br/> <br/>
consistentwiththelicensingoftheIndependentModules.<br/>
<br/>br />
<br />
2.NoWeakeningofGCCCopyleft.<br/>
<br />
TheavailabilityofthisExceptiondoesnotimplyanygeneral<br/><br/>>
presumptionthatthird-partysoftwareisunaffectedbythecopyleft<br/>br/>
requirementsofthelicenseofGCC.<br/>
</div>
  Hopefully that text is self-explanatory. If it isn't, you need to speak
  to your lawyer, or the Free Software Foundation.
  </div><div class="section"><div class="titlepage"><div><div><h3 class="title"><a
id="manual.intro.status.license.fdl"></a>The Documentation: GPL, FDL</h3></div></div></div>
  The documentation shipped with the library and made available over
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  If you plan on making copies of the documentation, please let us know.
  We can probably offer suggestions.
  </div></div><div class="navfooter"><hr />+
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align="center"><a accesskey="u" href="status.html">Up</a><a
accesskey="n" href="bugs.html">Next</a><td width="40%" align="left"
valign="top">Chapter1.Status<a accesskey="h"
href="../index.html">Home</a><td width="40%" align="right"
valign="top">Bugs</div></body></html>
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</title></info>
<?dbhtml filename="appendix_gpl.html"?>
<para>
 Version 3, 29 June 2007
</para>
<para>
 Copyright 2007 Free Software Foundation, Inc.
 k xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://www.fsf.org/">http://www.fsf.org/</link>
</para>
<para>
 Everyone is permitted to copy and distribute verbatim copies of this license
 document, but changing it is not allowed.
<bridgehead xml:id="gpl-3-preamble" renderas="sect1">
 Preamble
</bridgehead>
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<para>
 The licenses for most software and other practical works are designed to
 take away your freedom to share and change the works. By contrast, the
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 freedom to share and change all versions of a programto make sure it
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 use the <acronym>GNU</acronym> General Public License for most of our
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 authors. You can apply it to your programs, too.
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<para>
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 to distribute copies of free software (and charge for them if you wish),
 that you receive source code or can get it if you want it, that you can
 change the software or use pieces of it in new free programs, and that you
 know you can do these things.
</para>
```

<para>

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

</para>

<para>

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

</para>

<para>

Developers that use the <acronym>GNU</acronym> <acronym>GPL</acronym> protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

</para>

<para>

For the developers and authors protection, the <acronym>GPL</acronym> clearly explains that there is no warranty for this free software. For both users and authors sake, the

<acronym>GPL</acronym> requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

</para>

<para>

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the <acronym>GPL</acronym> to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the <acronym>GPL</acronym>, as needed to protect the freedom of users.

</para>

<para>

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the <acronym>GPL</acronym>assures that patents cannot be used to render the program non-free.

</para>

<para>

The precise terms and conditions for copying, distribution and modification

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follow.
</para>
<br/>
<br/>
dgehead>
 TERMS AND CONDITIONS
</bridgehead>
<bri>dgehead xml:id="gpl-3-definitions" renderas="sect1">
 0. Definitions.
</bridgehead>
<para>
 This License refers to version 3 of the <acronym>GNU</acronym>
 General Public License.
</para>
<para>
 Copyright also means copyright-like laws that apply to other
 kinds of works, such as semiconductor masks.
</para>
<para>
 The Program refers to any copyrightable work licensed under
 this License. Each licensee is addressed as you.
 Licensees and recipients may be individuals or
 organizations.
</para>
<para>
 To modify a work means to copy from or adapt all or part of
 the work in a fashion requiring copyright permission, other than the making
 of an exact copy. The resulting work is called a modified
 version of the earlier work or a work based on the
 earlier work.
</para>
<para>
 A covered work means either the unmodified Program or a work
 based on the Program.
</para>
<para>
 To propagate a work means to do anything with it that, without
 permission, would make you directly or secondarily liable for infringement
 under applicable copyright law, except executing it on a computer or
 modifying a private copy. Propagation includes copying, distribution (with
 or without modification), making available to the public, and in some
 countries other activities as well.
</para>
<para>
 To convey a work means any kind of propagation that enables
 other parties to make or receive copies. Mere interaction with a user
 through a computer network, with no transfer of a copy, is not conveying.
</para>
<para>
```

An interactive user interface displays Appropriate Legal

Notices to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

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</para>
<br/>
<br/>
<br/>
<br/>
1. Source Code.
</br/>
<br/>
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The source code for a work means the preferred form of the work for making modifications to it. Object code means any non-source form of a work.

</para> <para>

A Standard Interface means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

</para> <para>

The System Libraries of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A Major Component, in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

</para>

The Corresponding Source for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the works System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

</para>

<para>

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

</para>

<para>

The Corresponding Source for a work in source code form is that same work.

</para>

<bridgehead xml:id="BasicPermissions" renderas="sect1">

2. Basic Permissions.

</bridgehead>

<para>

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

</para>

<para>

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

</para>

<para>

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

</para>

<bridgehead xml:id="Protecting" renderas="sect1">

3. Protecting Users Legal Rights From Anti-Circumvention Law.

</bridgehead>

<para>

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

</para>

<para>

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is

effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the works users, your or third parties legal rights to forbid circumvention of technological

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measures.
</para>
<bridgehead xml:id="ConveyingVerbatim" renderas="sect1">
 4. Conveying Verbatim Copies.
</bridgehead>
<para>
 You may convey verbatim copies of the Programs source code as you
 receive it, in any medium, provided that you conspicuously and appropriately
 publish on each copy an appropriate copyright notice; keep intact all
 notices stating that this License and any non-permissive terms added in
 accord with section 7 apply to the code; keep intact all notices of the
 absence of any warranty; and give all recipients a copy of this License
 along with the Program.
</para>
<para>
 You may charge any price or no price for each copy that you convey, and you
 may offer support or warranty protection for a fee.
</para>
<bridgehead xml:id="ConveyingModified" renderas="sect1">
 5. Conveying Modified Source Versions.
</bridgehead>
<para>
 You may convey a work based on the Program, or the modifications to produce
 it from the Program, in the form of source code under the terms of section
 4, provided that you also meet all of these conditions:
</para>
<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">
 listitem>
  <para>
   The work must carry prominent notices stating that you modified it, and
   giving a relevant date.
  </para>
 </listitem>
 listitem>
  <para>
   The work must carry prominent notices stating that it is released under
   this License and any conditions added under section 7. This requirement
```

modifies the requirement in section 4 to keep intact all notices.

</para>

</listitem>

listitem>

<para>

You must license the entire work, as a whole, under this License to

anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it. </para> </listitem> stitem> <para> If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so. </para> </listitem> </orderedlist> <para> A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an aggregate if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilations users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate. </para> <bridgehead xml:id="ConveyingNonSource" renderas="sect1"> 6. Conveying Non-Source Forms. </bridgehead> <para> You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways: <orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts"> stitem> <para> Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange. </para>

a physical distribution medium), accompanied by a written offer, valid

Convey the object code in, or embodied in, a physical product (including

</listitem>
stitem>
<para>

for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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</para>
</listitem>
</listitem>
<para>
```

Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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</para>
</listitem>
stitem>
<para>
```

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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</para>
</listitem>
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<para>
```

Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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</para>
</listitem>
</orderedlist>
<para>
```

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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</para>
```

<para>

A User Product is either (1) a consumer product, which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, normally used refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

</para>

<para>

Installation Information for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

</para>

<para>

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in

<acronym>ROM</acronym>).

</para>

<para>

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

</para>

<para>

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form),

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and must require no special password or key for unpacking, reading or
copying.
</para>
<bridgehead xml:id="AdditionalTerms" renderas="sect1">
 7. Additional Terms.
</bridgehead>
<para>
 Additional permissions are terms that supplement the terms of
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 Additional permissions that are applicable to the entire Program shall be
 treated as though they were included in this License, to the extent that
 they are valid under applicable law. If additional permissions apply only
 to part of the Program, that part may be used separately under those
 permissions, but the entire Program remains governed by this License
 without regard to the additional permissions.
</para>
<para>
 When you convey a copy of a covered work, you may at your option remove any
 additional permissions from that copy, or from any part of it. (Additional
 permissions may be written to require their own removal in certain cases
 when you modify the work.) You may place additional permissions on
 material, added by you to a covered work, for which you have or can give
 appropriate copyright permission.
</para>
<para>
 Notwithstanding any other provision of this License, for material you add
 to a covered work, you may (if authorized by the copyright holders of that
 material) supplement the terms of this License with terms:
<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">
 stitem>
  <para>
    Disclaiming warranty or limiting liability differently from the terms
    of sections 15 and 16 of this License; or
  </para>
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  <para>
    Requiring preservation of specified reasonable legal notices or author
    attributions in that material or in the Appropriate Legal Notices
    displayed by works containing it; or
  </para>
 </listitem>
 listitem>
  <para>
    Prohibiting misrepresentation of the origin of that material, or
    requiring that modified versions of such material be marked in
```

reasonable ways as different from the original version; or

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 </listitem>
 listitem>
  <para>
   Limiting the use for publicity purposes of names of licensors or
   authors of the material; or
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  <para>
   Declining to grant rights under trademark law for use of some trade
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 </listitem>
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  <para>
   Requiring indemnification of licensors and authors of that material by
   anyone who conveys the material (or modified versions of it) with
   contractual assumptions of liability to the recipient, for any
   liability that these contractual assumptions directly impose on those
   licensors and authors.
  </para>
 </listitem>
</orderedlist>
<para>
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restriction but permits relicensing or conveying under this License, you
 may add to a covered work material governed by the terms of that license
 document, provided that the further restriction does not survive such
 relicensing or conveying.
</para>
<para>
 If you add terms to a covered work in accord with this section, you must
place, in the relevant source files, a statement of the additional terms
 that apply to those files, or a notice indicating where to find the
 applicable terms.
</para>
<para>
 Additional terms, permissive or non-permissive, may be stated in the form
of a separately written license, or stated as exceptions; the above
 requirements apply either way.
</para>
<bri>dgehead xml:id="gpl-3-termination" renderas="sect1">
```

8. Termination.

```
</bridgehead>
<para>
  You may not propagate or modify a covered work except as expressly provided
 under this License. Any attempt otherwise to propagate or modify it is
  void, and will automatically terminate your rights under this License
  (including any patent licenses granted under the third paragraph of section
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</para>
<para>
 However, if you cease all violation of this License, then your license from
 a particular copyright holder is reinstated (a) provisionally, unless and
  until the copyright holder explicitly and finally terminates your license,
  and (b) permanently, if the copyright holder fails to notify you of the
  violation by some reasonable means prior to 60 days after the cessation.
</para>
<para>
  Moreover, your license from a particular copyright holder is reinstated
  permanently if the copyright holder notifies you of the violation by some
 reasonable means, this is the first time you have received notice of
  violation of this License (for any work) from that copyright holder, and
  you cure the violation prior to 30 days after your receipt of the notice.
</para>
<para>
  Termination of your rights under this section does not terminate the
 licenses of parties who have received copies or rights from you under this
 License. If your rights have been terminated and not permanently
  reinstated, you do not qualify to receive new licenses for the same
  material under section 10.
</para>
<bri>defined <a href="mailto:sect1" | Sect1" | Sect1
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</bridgehead>
<para>
  You are not required to accept this License in order to receive or run a
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  solely as a consequence of using peer-to-peer transmission to receive a
  copy likewise does not require acceptance. However, nothing other than
  this License grants you permission to propagate or modify any covered work.
  These actions infringe copyright if you do not accept this License.
  Therefore, by modifying or propagating a covered work, you indicate your
  acceptance of this License to do so.
</para>
<bri>dgehead xml:id="AutomaticDownstream" renderas="sect1">
  10. Automatic Licensing of Downstream Recipients.
</bridgehead>
```

Each time you convey a covered work, the recipient automatically receives a

license from the original licensors, to run, modify and propagate that

<para>

work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

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</para>
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<para>

An entity transaction is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the partys predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

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</appendix>

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@node Library Copying

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@appendixsubsec Preamble

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We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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@appendixsubsec How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the library's name and an idea of what it does.}
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@end smallexample

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@smallexample

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

@var{signature of Ty Coon}, 1 April 1990Ty Coon, President of Vice@end smallexample

That's all there is to it!

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#

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#

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it under the terms of the GNU General Public License as published by

the Free Software Foundation; either version 3, or (at your option)

any later version.

This script adjusts the copyright notices at the top of source files

so that they have the form:

#

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#

It doesn't change code that is known to be maintained elsewhere or

that carries a non-FSF copyright.

#

The script also doesn't change testsuite files, except those in

libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,

while most tests in other directories are just things that failed at some

point in the past.

#

Pass --this-year to the script if you want it to add the current year

to all applicable notices. Pass --quilt if you are using quilt and

```
# want files to be added to the quilt before being changed.
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
  update-copyright.pl --this-year
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
  update-copyright.pl --this-year libjava
# would run the script on just libjava/.
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.
import os
import re
import sys
import time
import subprocess
class Errors:
 def __init__ (self):
    self.num\_errors = 0
 def report (self, filename, string):
    if filename:
       string = filename + ': ' + string
    sys.stderr.write (string + '\n')
    self.num_errors += 1
 def ok (self):
    return self.num\_errors == 0
class GenericFilter:
 def __init__ (self):
    self.skip_files = set()
    self.skip_dirs = set()
    self.skip_extensions = set()
    self.fossilised_files = set()
    self.own_files = set()
    self.skip_files |= set ([
         # Skip licence files.
```

```
'COPYING',
        'COPYING.LIB',
        'COPYING3',
       'COPYING3.LIB',
       'LICENSE',
       'fdl.texi',
        'gpl_v3.texi',
       'fdl-1.3.xml',
        'gpl-3.0.xml',
       # Skip auto- and libtool-related files
       'aclocal.m4',
        'compile',
        'config.guess',
        'config.sub',
        'depcomp',
       'install-sh',
        'libtool.m4',
       'Itmain.sh',
       'ltoptions.m4',
        'ltsugar.m4',
       'ltversion.m4',
       'lt~obsolete.m4',
        'missing',
       'mkdep',
       'mkinstalldirs',
        'move-if-change',
        'shlibpath.m4',
        'symlink-tree',
        'ylwrap',
       # Skip FSF mission statement, etc.
        'gnu.texi',
       'funding.texi',
        'appendix_free.xml',
       # Skip imported texinfo files.
       'texinfo.tex',
       ])
def get_line_filter (self, dir, filename):
  if filename.startswith ('ChangeLog'):
     # Ignore references to copyright in changelog entries.
     return re.compile ('\t')
  return None
```

```
def skip_file (self, dir, filename):
    if filename in self.skip_files:
       return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
       return True
    if extension == '.in':
      # Skip .in files produced by automake.
      if os.path.exists (base + '.am'):
         return True
      # Skip files produced by autogen
       if (os.path.exists (base + '.def')
         and os.path.exists (base + '.tpl')):
         return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
       if os.path.exists (base + '.ac'):
         return True
      if os.path.exists (base + '.in'):
         return True
    return False
 def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs
 def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
       return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
       return True
    return False
 def by_package_author (self, dir, filename):
    return filename in self.own_files
class Copyright:
 def __init__ (self, errors):
    self.errors = errors
    # Characters in a range of years. Include '.' for typos.
    ranges = [0-9](?:[-0-9.,\s]|\s+and\s+)*[0-9]'
```

```
# Non-whitespace characters in a copyright holder's name.
name = '[\w.,-]'
# Matches one year.
self.year\_re = re.compile ('[0-9]+')
# Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|' + name)
# Matches a full copyright notice:
self.copyright_re = re.compile (
  #1: 'Copyright (C)', etc.
  '([Cc]opyright'
  |[Cc]opyright\s+\([Cc]\)|
  '|[Cc]opyright\s+%s'
  '|[Cc]opyright\s+©'
  '|[Cc]opyright\s+@copyright{}'
  '|@set\s+copyright[\w-]+)'
  # 2: the years. Include the whitespace in the year, so that
  # we can remove any excess.
  (s*(?:' + ranges + ',?')
  '|@value\{[^{}]*\})\s*)'
  # 3: 'by ', if used
  '(by\s+)?'
  # 4: the copyright holder. Don't allow multiple consecutive
  # spaces, so that right-margin gloss doesn't get caught
  # (e.g. gnat_ugn.texi).
  '(' + name + '(?:\s?' + name + ')*)?')
# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
                        re.IGNORECASE)
self.comment\_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()
# True to 'quilt add' files before changing them.
self.use\_quilt = False
# If set, force all notices to include this year.
self.max\_year = None
# Goes after the year(s). Could be ', '.
```

```
self.separator = ' '
def add_package_author (self, holder, canon_form = None):
  if not canon_form:
     canon\_form = holder
  self.holders[holder] = canon_form
  index = holder.find (' ')
  while index >= 0:
     self.holder_prefixes.add (holder[:index])
     index = holder.find ('', index + 1)
def add_external_author (self, holder):
  self.holders[holder] = None
class BadYear():
  def __init__ (self, year):
     self.year = year
  def __str__ (self):
     return 'unrecognised year: ' + self.year
def parse_year (self, string):
  year = int (string)
  if len (string) == 2:
     if year > 70:
       return year + 1900
  elif len (string) == 4:
     return year
  raise self.BadYear (string)
def year_range (self, years):
  year_list = [self.parse_year (year)
           for year in self.year_re.findall (years)]
  assert len (year_list) > 0
  return (min (year_list), max (year_list))
def set_use_quilt (self, use_quilt):
  self.use_quilt = use_quilt
def include_year (self, year):
  assert not self.max_year
  self.max\_year = year
def canonicalise_years (self, dir, filename, filter, years):
  # Leave texinfo variables alone.
  if years.startswith ('@value'):
     return years
```

```
(min_year, max_year) = self.year_range (years)
  # Update the upper bound, if enabled.
  if self.max_year and not filter.is_fossilised_file (dir, filename):
     max_year = max (max_year, self.max_year)
  # Use a range.
  if min_year == max_year:
     return '%d' % min_year
  else:
     return '%d-%d' % (min_year, max_year)
def strip_continuation (self, line):
  line = line.lstrip()
  match = self.comment_re.match (line)
  if match:
     line = line[match.end():].lstrip()
  return line
def is_complete (self, match):
  holder = match.group (4)
  return (holder
       and (holder not in self.holder_prefixes
          or holder in self.holders))
def update_copyright (self, dir, filename, filter, file, line, match):
  orig_line = line
  next_line = None
  pathname = os.path.join (dir, filename)
  intro = match.group(1)
  if intro.startswith ('@set'):
     # Texinfo year variables should always be on one line
     after_years = line[match.end (2):].strip()
     if after_years != ":
       self.errors.report (pathname,
                    'trailing characters in @set: '
                    + after_years)
       return (False, orig_line, next_line)
  else:
     # If it looks like the copyright is incomplete, add the next line.
     while not self.is_complete (match):
       try:
          next_line = file.next()
       except StopIteration:
          break
       # If the next line doesn't look like a proper continuation,
```

```
# assume that what we've got is complete.
     continuation = self.strip_continuation (next_line)
     if not self.continuation_re.match (continuation):
       break
     # Merge the lines for matching purposes.
     orig line += next line
     line = line.rstrip() + ' ' + continuation
     next_line = None
     # Rematch with the longer line, at the original position.
     match = self.copyright_re.match (line, match.start())
     assert match
  holder = match.group (4)
  # Use the filter to test cases where markup is getting in the way.
  if filter.by package author (dir, filename):
     assert holder not in self.holders
  elif not holder:
     self.errors.report (pathname, 'missing copyright holder')
     return (False, orig_line, next_line)
  elif holder not in self.holders:
     self.errors.report (pathname,
                  'unrecognised copyright holder: ' + holder)
     return (False, orig_line, next_line)
  else:
     # See whether the copyright is associated with the package
     # author.
     canon_form = self.holders[holder]
    if not canon_form:
       return (False, orig_line, next_line)
    # Make sure the author is given in a consistent way.
     line = (line[:match.start (4)]
          + canon form
          + line[match.end (4):])
     # Remove any 'by'
     line = line[:match.start (3)] + line[match.end (3):]
# Update the copyright years.
years = match.group (2).strip()
try:
  canon_form = self.canonicalise_years (dir, filename, filter, years)
```

```
except self.BadYear as e:
     self.errors.report (pathname, str (e))
     return (False, orig_line, next_line)
  line = (line[:match.start (2)]
       + ' ' + canon_form + self.separator
        + line[match.end (2):])
  # Use the standard (C) form.
  if intro.endswith ('right'):
     intro += '(C)'
  elif intro.endswith ('(c)'):
     intro = intro[:-3] + '(C)'
  line = line[:match.start (1)] + intro + line[match.end (1):]
  # Strip trailing whitespace
  line = line.rstrip() + '\n'
  return (line != orig_line, line, next_line)
def process_file (self, dir, filename, filter):
  pathname = os.path.join (dir, filename)
  if filename.endswith ('.tmp'):
     # Looks like something we tried to create before.
     try:
       os.remove (pathname)
     except OSError:
       pass
     return
  lines = []
  changed = False
  line_filter = filter.get_line_filter (dir, filename)
  with open (pathname, 'r') as file:
     prev = None
     for line in file:
        while line:
          next_line = None
          # Leave filtered-out lines alone.
          if not (line_filter and line_filter.match (line)):
             match = self.copyright_re.search (line)
             if match:
               res = self.update_copyright (dir, filename, filter,
                                  file, line, match)
               (this_changed, line, next_line) = res
               changed = changed or this_changed
            # Check for copyright lines that might have slipped by.
```

```
elif self.other_copyright_re.search (line):
                 self.errors.report (pathname,
                              'unrecognised copyright: %s'
                              % line.strip())
            lines.append (line)
            line = next_line
    # If something changed, write the new file out.
    if changed and self.errors.ok():
       tmp_pathname = pathname + '.tmp'
       with open (tmp_pathname, 'w') as file:
         for line in lines:
            file.write (line)
       if self.use_quilt:
         subprocess.call (['quilt', 'add', pathname])
       os.rename (tmp_pathname, pathname)
 def process tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
       # Don't recurse through directories that should be skipped.
       for i in xrange (len (subdirs) - 1, -1, -1):
         if filter.skip_dir (dir, subdirs[i]):
            del subdirs[i]
       # Handle the files in this directory.
       for filename in filenames:
         if filter.skip file (dir, filename):
            sys.stdout.write ('Skipping %s\n'
                        % os.path.join (dir, filename))
         else:
            self.process_file (dir, filename, filter)
class CmdLine:
 def __init__ (self, copyright = Copyright):
    self.errors = Errors()
    self.copyright = copyright (self.errors)
    self.dirs = []
    self.default_dirs = []
    self.chosen_dirs = []
    self.option_handlers = dict()
    self.option_help = []
    self.add_option ('--help', 'Print this help', self.o_help)
    self.add_option ('--quilt', "'quilt add" files before changing them',
               self.o_quilt)
    self.add_option ('--this-year', 'Add the current year to every notice',
               self.o_this_year)
```

```
def add_option (self, name, help, handler):
  self.option_help.append ((name, help))
  self.option_handlers[name] = handler
def add_dir (self, dir, filter = GenericFilter()):
  self.dirs.append ((dir, filter))
def o_help (self, option = None):
  sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n'
              'Options:\n' % sys.argv[0])
  format = '\%-15s \% s \ n'
  for (what, help) in self.option_help:
     sys.stdout.write (format % (what, help))
  sys.stdout.write ('\nDirectories:\n')
  format = '\%-25s'
  i = 0
  for (dir, filter) in self.dirs:
     i += 1
     if i % 3 == 0 or i == len (self.dirs):
        sys.stdout.write (dir + '\n')
     else:
        sys.stdout.write (format % dir)
  sys.exit (0)
def o_quilt (self, option):
  self.copyright.set_use_quilt (True)
def o_this_year (self, option):
  self.copyright.include_year (time.localtime().tm_year)
def main (self):
  for arg in sys.argv[1:]:
     if arg[:1] != '-':
        self.chosen_dirs.append (arg)
     elif arg in self.option_handlers:
        self.option_handlers[arg] (arg)
     else:
        self.errors.report (None, 'unrecognised option: ' + arg)
  if self.errors.ok():
     if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
     if len (self.chosen_dirs) == 0:
        self.o_help()
     else:
        for chosen_dir in self.chosen_dirs:
          canon_dir = os.path.join (chosen_dir, ")
          count = 0
```

```
for (dir, filter) in self.dirs:
               if (dir + os.sep).startswith (canon_dir):
                 count += 1
                 self.copyright.process_tree (dir, filter)
            if count == 0:
               self.errors.report (None, 'unrecognised directory: '
                            + chosen dir)
    sys.exit (0 if self.errors.ok() else 1)
class TopLevelFilter (GenericFilter):
 def skip_dir (self, dir, subdir):
    return True
class ConfigFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
 def skip_file (self, dir, filename):
    if filename.endswith ('.m4'):
       pathname = os.path.join (dir, filename)
       with open (pathname) as file:
         # Skip files imported from gettext.
         if file.readline().find ('gettext-') >= 0:
            return True
    return GenericFilter.skip_file (self, dir, filename)
class GCCFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_files |= set ([
         # Not part of GCC
         'math-68881.h',
         ])
    self.skip_dirs |= set ([
         # Better not create a merge nightmare for the GNAT folks.
          'ada',
         # Handled separately.
          'testsuite',
         ])
    self.skip_extensions |= set ([
         # Maintained by the translation project.
          '.po',
```

```
# Automatically-generated.
         '.pot',
         ])
    self.fossilised_files |= set ([
         # Old news won't be updated.
         'ONEWS',
         ])
class TestsuiteFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_extensions |= set ([
         # Don't change the tests, which could be woend by anyone.
         '.c',
         '.C',
         '.cc',
         '.h',
         '.hs',
         '.f',
         '.f90',
         '.go',
         '.inc',
         '.java',
         ])
 def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
    return GenericFilter.skip_file (self, dir, filename)
class LibCppFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_extensions |= set ([
         # Maintained by the translation project.
         '.po',
         # Automatically-generated.
         '.pot',
         ])
class LibGCCFilter (GenericFilter):
```

```
def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_dirs |= set ([
         # Imported from GLIBC.
         'soft-fp',
         ])
class LibJavaFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_dirs |= set ([
         # Handled separately.
         'testsuite',
         # Not really part of the library
         'contrib',
         # Imported from upstream
         'classpath',
         'libltdl',
         ])
 def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
       return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
       return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)
class LibMudflapFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_dirs |= set ([
         # Handled separately.
         'testsuite',
         ])
class LibStdCxxFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_files |= set ([
         # Contains no copyright of its own, but quotes the GPL.
         'intro.xml',
         ])
```

```
self.skip_dirs |= set ([
         # Contains automatically-generated sources.
         'html',
         # The testsuite data files shouldn't be changed.
         'data',
         # Contains imported images
         'images',
         ])
    self.own files |= set ([
         # Contains markup around the copyright owner.
         'spine.xml',
         1)
 def get line filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
      return re.compile ('//\(C\) Copyright Jeremy Siek')
    return GenericFilter.get line filter (self, dir, filename)
class GCCCopyright (Copyright):
 def init (self, errors):
    Copyright.__init__ (self, errors)
    canon fsf = 'Free Software Foundation, Inc.'
    self.add_package_author ('Free Software Foundation', canon_fsf)
    self.add package author ('Free Software Foundation.', canon fsf)
    self.add package author ('Free Software Foundation Inc.', canon fsf)
    self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
    self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author ('The Free Software Foundation', canon_fsf)
    self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author ('Software Foundation, Inc.', canon_fsf)
    self.add_external_author ('ARM')
    self.add_external_author ('AdaCore')
    self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
    self.add_external_author ('Cavium Networks.')
    self.add_external_author ('Faraday Technology Corp.')
    self.add_external_author ('Florida State University')
    self.add_external_author ('Greg Colvin and Beman Dawes.')
    self.add_external_author ('Hewlett-Packard Company')
    self.add_external_author ('Information Technology Industry Council.')
    self.add_external_author ('James Theiler, Brian Gough')
    self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
    self.add_external_author ('National Research Council of Canada.')
```

```
self.add_external_author ('Peter Dimov and Multi Media Ltd.')
    self.add_external_author ('Peter Dimov')
    self.add_external_author ('Pipeline Associates, Inc.')
    self.add_external_author ('Regents of the University of California.')
    self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
    self.add_external_author ('Silicon Graphics')
    self.add external author ('Stephen L. Moshier')
    self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
    self.add_external_author ('The Go Authors. All rights reserved.')
    self.add external author ('The Go Authors. All rights reserved.')
    self.add_external_author ('The Go Authors.')
    self.add_external_author ('The Regents of the University of California.')
    self.add external author ('Unicode, Inc.')
    self.add_external_author ('University of Toronto.')
class GCCCmdLine (CmdLine):
 def __init__ (self):
    CmdLine. init (self, GCCCopyright)
    self.add_dir ('.', TopLevelFilter())
    # boehm-gc is imported from upstream.
    self.add_dir ('config', ConfigFilter())
    # contrib isn't really part of GCC.
    self.add dir ('fixincludes')
    self.add_dir ('gcc', GCCFilter())
    self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
    self.add dir ('gnattools')
    self.add_dir ('include')
    self.add_dir ('libada')
    self.add dir ('libatomic')
    self.add_dir ('libbacktrace')
    self.add_dir ('libcpp', LibCppFilter())
    self.add_dir ('libdecnumber')
    # libffi is imported from upstream.
    self.add_dir ('libgcc', LibGCCFilter())
    self.add_dir ('libgfortran')
    self.add_dir ('libgomp')
    self.add_dir ('libiberty')
    self.add_dir ('libitm')
    self.add_dir ('libjava', LibJavaFilter())
    self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
    self.add_dir ('libmudflap', LibMudflapFilter())
    self.add_dir (os.path.join ('libmudflap', 'testsuite'),
             TestsuiteFilter())
    self.add_dir ('libobjc')
    self.add_dir ('libquadmath')
    # libsanitiser is imported from upstream.
    self.add_dir ('libssp')
```

```
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
    self.add_dir ('lto-plugin')
    # zlib is imported from upstream.
    self.default_dirs = [
       'gcc',
       'libada',
       'libatomic',
       'libbacktrace',
       'libcpp',
       'libdecnumber',
       'libgcc',
       'libgfortran',
       'libgomp',
       'libitm',
       'libmudflap',
       'libobjc',
       'libstdc++-v3',
       1
GCCCmdLine().main()
libffi - Copyright (c) 1996-2012 Anthony Green, Red Hat, Inc and others.
```

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Version 2, June 1991

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```
package gnu.classpath.tools.taglets;
import java.util.Map;
import com.sun.tools.doclets.Taglet;
import com.sun.javadoc.Tag;
/**
* A simple Taglet which handles Copyright information.
public class CopyrightTaglet implements Taglet {
 private static final String NAME = "copyright";
 private static final String HEADER = "Copyright:";
 public String getName() {
   return NAME;
 public boolean inField() {
   return true;
 }
 public boolean inConstructor() {
   return true;
 }
 public boolean inMethod() {
   return true;
```

```
public boolean inOverview() {
 return true;
}
public boolean inPackage() {
 return true;
}
public boolean inType() {
 return true;
}
public boolean isInlineTag() {
 return false;
}
public static void register(Map tagletMap) {
 CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
 tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);\\
public String toString(Tag tag) {
 return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
 if (tags.length == 0) {
   return null;
 }
 else {
   boolean haveValidTag = false;
   for (int i = 0; i < tags.length && !haveValidTag; ++i) {
     if (tags[i].text().length() > 0) {
       haveValidTag = true;
     }
   }
   if (haveValidTag) {
     StringBuffer result = new StringBuffer();
     result.append("<dl>");
     for (int i = 0; i < tags.length; i++) {
       if (tags[i].text().length() > 0) {
         result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
       }
     }
     result.append("</dl>");
     return result.toString();
```

```
}
else {
    return null;
}
}
/* Permission.java -- The superclass for all permission objects
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```

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package java.security;

import gnu.java.lang.CPStringBuilder;

```
/**
* This class is the abstract superclass of all classes that implement
* the concept of a permission. A permission consists of a permission name
* and optionally a list of actions that relate to the permission. The
* actual meaning of the name of the permission is defined only in the
* context of a subclass. It may name a resource to which access permissions
* are granted (for example, the name of a file) or it might represent
* something else entirely. Similarly, the action list only has meaning
* within the context of a subclass. Some permission names may have no
* actions associated with them. That is, you either have the permission
* or you don't.
* The most important method in this class is <code>implies</code>. This
* checks whether if one has this permission, then the specified
* permission is also implied. As a conceptual example, consider the
* permissions "Read All Files" and "Read File foo". The permission
* "Read All Files" implies that the caller has permission to read the
* file foo.
* <code>Permission</code>'s must be immutable - do not change their
* state after creation.
* @author Aaron M. Renn (arenn@urbanophile.com)
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
public abstract class Permission implements Guard, Serializable
{
/**
 * Compatible with JDK 1.1+.
private static final long serialVersionUID = -5636570222231596674L;
 * This is the name assigned to this permission object.
 * @serial the name of the permission
private String name;
 * Create an instance with the specified name.
 * @param name the permission name
```

```
public Permission(String name)
 this.name = name;
/**
* This method implements the <code>Guard</code> interface for this class.
* It calls the <code>checkPermission</code> method in
* <code>SecurityManager</code> with this <code>Permission</code> as its
* argument. This method returns silently if the security check succeeds
* or throws an exception if it fails.
* @param obj the <code>Object</code> being guarded - ignored by this class
* @throws SecurityException if the security check fails
* @see GuardedObject
* @see SecurityManager#checkPermission(Permission)
public void checkGuard(Object obj)
 SecurityManager sm = System.getSecurityManager();
 if (sm != null)
  sm.checkPermission(this);
* This method tests whether this <code>Permission</code> implies that the
* specified <code>Permission</code> is also granted.
* @param perm the <code>Permission</code> to test against
* @return true if perm is implied by this
public abstract boolean implies(Permission perm);
* Check to see if this object equals obj. Use <code>implies</code>, rather
* than <code>equals</code>, when making access control decisions.
* @param obj the object to compare to
public abstract boolean equals(Object obj);
/**
* This method returns a hash code for this <code>Permission</code>. It
* must satisfy the contract of <code>Object.hashCode</code>: it must be
* the same for all objects that equals considers to be the same.
* @return a hash value
```

```
public abstract int hashCode();
* Get the name of this <code>Permission</code>.
* @return the name
public final String getName()
 return name;
/**
* This method returns the list of actions for this <code>Permission</code>
* as a <code>String</code>. The string should be in canonical order, for
* example, both <code>new FilePermission(f, "write,read")</code> and
* <code>new FilePermission(f, "read,write")</code> have the action list
* "read.write".
* @return the action list for this <code>Permission</code>
public abstract String getActions();
/**
* This method returns an empty <code>PermissionCollection</code> object
* that can store permissions of this type, or <code>null</code> if no
* such collection is defined. Subclasses must override this to provide
* an appropriate collection when one is needed to accurately calculate
* <code>implies</code>.
* @return a new <code>PermissionCollection</code>
public PermissionCollection newPermissionCollection()
 return null;
}
* This method returns a <code>String</code> representation of this
* <code>Permission</code> object. This is in the format:
* <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
* + ')'</code>.
* @return this object as a <code>String</code>
*/
public String toString()
```

CPStringBuilder string = new CPStringBuilder();

```
string = string.append('(');
string = string.append(getClass().getName());
string = string.append(' ');
string = string.append(getName());

if (!(getActions().equals("")))
    {
    string = string.append(' ');
    string = string.append(getActions());
    }

string = string.append(')');
return string.toString();
}

// class Permission
/* Permission.java -- Information about an ACL permission
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```

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```
package java.security.acl;
/**
* This interface provides information about a permission that can be
* granted. Note that this is <em>not</em> the same as the class
* <code>java.security.Permission</code>.
* @version 0.0
* @author Aaron M. Renn (arenn@urbanophile.com)
public interface Permission
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 * @param perm The permission to check for equality
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
boolean equals (Object perm);
/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 * @return A <code>String</code> representing this permission.
String toString();
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```

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For more information see the README file in the examples directory.

Directory native/fdlibm

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* m4/ax_func_which_gethostbyname_r.m4

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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.)

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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. ^L

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"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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(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.

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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.

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

- 2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
 - a) The modified work must itself be a software library.
 - 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.

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.

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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. ^L

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.

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- 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:
 - a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
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END OF TERMS AND CONDITIONS

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How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library.

It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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<signature of Ty Coon>, 1 April 1990 Ty Coon, President of Vice

That's all there is to it!

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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.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users.

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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide

complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

- 2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
 - a) The modified work must itself be a software library.
 - 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.

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 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.

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) 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.
- d) 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 source code 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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<signature of Ty Coon>, 1 April 1990 Ty Coon, President of Vice

That's all there is to it!

 $commit\ ef7344f09c5ce00eb519ed14598b2a8e39c68387$

Author: Joseph Myers <joseph@codesourcery.com>

Date: Sun Dec 22 14:49:48 2013 +0000

Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in

https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html, it seems appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes are: update paths in sysdeps/mach/hurd/Implies and sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files, with the removal of syscalls that were in sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory by .c files there.

Tested x86_64. The installed shared libraries are identical before and after the patch except for libc.so where the move of wait3.c (included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but the disassembly is unchanged.

- * sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
- * sysdeps/unix/bsd/syscalls.list (chflags): Add entry from sysdeps/unix/bsd/bsd4.4/syscalls.list.

(fchflags): Likewise.

(revoke): Likewise.

(setlogin): Likewise.

(sigaltstack): Likewise.

(wait4): Likewise.

(sigblock): Remove.

(sigsetmask): Likewise.

(wait3): Likewise.

(waitpid): Likewise.

- $*\ sysdeps/unix/bsd/bsd4.4/syscalls.list:\ Remove\ file.$
- * sysdeps/unix/sysv/linux/wait3.c: Update directory of included

```
file.
```

- * sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
- * sysdeps/unix/bsd/Makefile: ... here.
- * sysdeps/unix/bsd/bsd4.4/Versions: Move to ...
- * sysdeps/unix/bsd/Versions: ... here.
- * sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h: Move to ...
- * sysdeps/unix/bsd/bits/sockaddr.h: ... here.
- * sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c: Move to ...
- * sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
- * sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
- * sysdeps/unix/bsd/sigblock.c: ... here.
- * sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
- * sysdeps/unix/bsd/sigsetmask.c: ... here.
- * sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
- * sysdeps/unix/bsd/sigvec.c: ... here.
- * sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
- * sysdeps/unix/bsd/tcdrain.c: ... here.
- * sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
- * sysdeps/unix/bsd/tcgetattr.c: ... here.
- * sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...
- * sysdeps/unix/bsd/tcsetattr.c: ... here.
- * sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
- * sysdeps/unix/bsd/wait.c: ... here.
- * sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
- * sysdeps/unix/bsd/wait3.c: ... here.
- * sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
- * sysdeps/unix/bsd/waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies

index b6063463ce34f3b7..d2d5234c1fdf1522 100644

- --- a/sysdeps/mach/hurd/Implies
- +++ b/sysdeps/mach/hurd/Implies
- @@ -2,4 +2,4 @@
- # Hurd-based GNU systems.

gni

- # The Hurd provides a rough superset of the functionality of 4.4 BSD.
- -unix/bsd/bsd4.4
- +unix/bsd

diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile

similarity index 100%

rename from sysdeps/unix/bsd/bsd4.4/Makefile

rename to sysdeps/unix/bsd/Makefile

diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions

similarity index 100%

rename from sysdeps/unix/bsd/bsd4.4/Versions

rename to sysdeps/unix/bsd/Versions

 $diff --git \ a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h \ b/sysdeps/unix/bsd/bits/sockaddr.h$

similarity index 100%

```
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/bsd4.4/syscalls.list
deleted file mode 100644
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File name Caller Syscall name # args Strong name Weak names
-chflags - chflags 2 chflags
-fchflags - fchflags 2 fchflags
-revoke - revoke 1 revoke
-setlogin - setlogin 2 setlogin
-sigaltstack - sigaltstack 2 __sigaltstack sigaltstack
-wait4 - wait4 4 wait4 wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmsg_nxthdr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
# File name Caller Syscall name # args Strong name Weak names
+chflags - chflags 2 chflags
+fchflags - fchflags 2 fchflags
flock - flock 2 __flock flock
getdents - getdirentries 4 __getdirentries getdirentries
getdtsz - getdtablesize 0 __getdtablesize getdtablesize
getpagesize - getpagesize 0 __getpagesize getpagesize
killpg - killpg 2 killpg
-sigblock - sigblock 1 __sigblock sigblock
+revoke - revoke 1 revoke
```

```
+setlogin - setlogin 2 setlogin
+sigaltstack - sigaltstack 2 __sigaltstack sigaltstack
sigpause - sigpause 1 __sigpause sigpause
-sigsetmask - sigsetmask 1 __sigsetmask sigsetmask
sigstack - sigstack 2 sigstack
sigvec - sigvec 3 __sigvec sigvec
-wait3 - wait3 3 wait3 wait3
-waitpid - waitpid 3 __waitpid waitpid
+wait4 - wait4 4 __wait4 wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
rename to sysdeps/unix/bsd/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcsetattr.c b/sysdeps/unix/bsd/tcsetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcsetattr.c
rename to sysdeps/unix/bsd/tcsetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
similarity index 100%
```

rename from sysdeps/unix/bsd/bsd4.4/wait.c

rename to sysdeps/unix/bsd/wait.c

diff --git a/sysdeps/unix/bsd/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c

similarity index 100%

rename from sysdeps/unix/bsd/bsd4.4/wait3.c

rename to sysdeps/unix/bsd/wait3.c

diff --git a/sysdeps/unix/bsd/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c

similarity index 100%

rename from sysdeps/unix/bsd/bsd4.4/waitpid.c

rename to sysdeps/unix/bsd/waitpid.c

diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c

index 0b3bdee771782b7b..2ff027f0e1d83eb2 100644

--- a/sysdeps/unix/sysv/linux/wait3.c

+++ b/sysdeps/unix/sysv/linux/wait3.c

@@ -1 +1 @@

-#include <sysdeps/unix/bsd/bsd4.4/wait3.c>

+#include <sysdeps/unix/bsd/wait3.c>

1.31 GraphicsMagick 1.3.31 :2.el7

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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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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Thus, it is not the intent of this section to claim rights or contest

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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.

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

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That's all there is to it!

1.33 gst-plugins-base 1.6.4

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1.34 gst-plugins-good 1.6.4

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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.

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"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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(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.)

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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.

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- 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.
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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 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.

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1.35 gst-plugins-ugly 1.6.4

1.35.1 Available under license:

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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.)

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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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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.

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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.

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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.

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That's all there is to it!

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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.)

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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.

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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.

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1.39 herisson 0.0.1

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1.41 jemalloc 3.6.0 :1.el7

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1.43 keyutils 1.5.8 :3.el7

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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.)

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1.44 keyutils_tools-GPLv2 1.5.8 :3.el7

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1.45 krb5 1.15.1 :37.el7_6

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import os
import sys
import re
def warn(fname, ln, msg):
  print '%s: %d: %s' % (fname, ln + 1, msg)
def indicates_license(line):
 return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line
# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
 text seen = False
 is license = False
 for line in comment:
    if not is_license and indicates_license(line):
      is_license = True
      if text seen:
         warn(fname, ln, 'License begins after first line of comment')
      elif code_seen:
         warn(fname, ln, 'License after code')
      elif nonlicense_seen:
         warn(fname, ln, 'License after non-license comments')
      break
```

```
# DB2 licenses start with '/*-' and we don't want to change them.
    if line != " and line != '-':
      text\_seen = True
 return is_license
def check_file(lines, fname):
 # Skip emacs mode line if present.
 ln = 0
 if '-*- mode: c;' in lines[ln]:
    ln += 1
 # Check filename comment if present.
 m = re.match(r'/* ([^{\land}]*)( - .*)? /*/', lines[ln])
 if m:
    if m.group(1) != fname:
       warn(fname, ln, 'Wrong filename in comment')
    ln += 1
 # Scan for license statements.
 in\_comment = False
 code seen = False
 nonlicense_seen = False
 for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
      line = re.sub(r'\wedge*.*?\wedge*/', ", line)
    line = line.strip()
    if not in_comment and '/*' in line:
       (line, sep, comment_part) = line.partition('/*')
      comment = [comment_part.strip()]
      comment\_starts\_at = ln
      in_comment = True
    elif in_comment and '*/' not in line:
      comment.append(line.lstrip('*').lstrip())
    elif in_comment:
      (comment_part, sep, line) = line.partition('*/')
      comment.append(comment_part.strip())
      is_license = check_comment(comment, fname, comment_starts_at,
                       code_seen, nonlicense_seen)
      nonlicense_seen = nonlicense_seen or not is_license
      in\_comment = False
    elif line.strip() != ":
      code\_seen = True
    ln += 1
for fname in sys.argv[1:]:
```

```
if fname.startswith('./'):
    fname = fname[2:]
f = open(fname)
lines = f.readlines()
f.close()
check_file(lines, fname)
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
```

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*/
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/*
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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h

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lib/krb5/kdb/kdb_log.h

lib/libgss/g_accept_sec_context.c

lib/libgss/g_acquire_cred.c

lib/libgss/g_canon_name.c

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lib/libgss/g_rel_name.c

lib/libgss/g_rel_oid_set.c

lib/libgss/g_seal.c

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lib/libgss/g_store_cred.c

lib/libgss/g_unseal.c

lib/libgss/g_userok.c

lib/libgss/g_utils.c

lib/libgss/g_verify.c

lib/libgss/gssd_pname_to_uid.c

uts/common/gssapi/include/gssapi_err_generic.h

uts/common/gssapi/include/mechglueP.h

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<tt class="docutils literal"><span class="pre">src/lib/gssapi</span></tt>, including the following files:
<div class="highlight-python"><div class="highlight"><span class="n">lib</span><span
class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span
class="n">generic</span><span class="o">/</span><span class="n">gssapi_err_generic</span><span
class="o">.</span><span class="n">et</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span</pre>
class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span
class="n">g_accept_sec_context</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span</pre>
class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span
class="n">g_acquire_cred</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span</pre>
class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span
class="n">g_canon_name</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span</pre>
class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span
class="n">g_compare_name</span><span class="0">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span</pre>
class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span
class="n">g_context_time</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span</pre>
```

class="o">/mechglue/g delete sec context.c lib/gssapi<span</pre> class="o">/mechglue/g dsp name.c lib/gssapi<span</pre> class="o">/mechglue/g_dsp_status.c lib/gssapi<span</pre> class="o">/mechglue/g_dup_name.c lib/gssapi<span</pre> class="o">/mechglue/g_exp_sec_context.c lib/gssapi<span</pre> class="o">/mechglue/g_export_name.c lib/gssapi/mechglue/g_glue.c lib/gssapi/mechglue/g_imp_name.c lib/gssapi/mechglue/g imp sec context.c lib/gssapi/mechglue/g init sec context.c lib/gssapi/mechglue/g initialize.c lib/gssapi/mechglue/g inquire context.c lib/gssapi/mechglue/g_inquire_cred.c lib/gssapi<span</pre> class="o">/mechglue/g_inquire_names.c lib/gssapi<span</pre> class="o">/mechglue/g_process_context.c lib/gssapi<span</pre> class="o">/mechglue/g_rel_buffer.c lib/gssapi<span</pre>

class="o">/mechglue/g rel cred.c lib/gssapi<span</pre> class="o">/mechglue/g_rel_name.c lib/gssapi<span</pre> class="o">/mechglue/g rel oid set.c lib/gssapi<span</pre> class="o">/mechglue/g_seal.c lib/gssapi<span</pre> class="o">/mechglue/g_sign.c lib/gssapi<span</pre> class="o">/mechglue/g_store_cred.c lib/gssapi/mechglue/g_unseal.c lib/gssapi/mechglue/g_userok.c lib/gssapi/mechglue/g utils.c lib/gssapi/mechglue/g verify.c lib/gssapi/mechglue/gssd pname to uid.c lib/gssapi/mechglue/mglueP.h lib/gssapi<span</pre> class="o">/mechglue/oid_ops.c lib/gssapi<span</pre> class="o">/spnego/gssapiP_spnego.h lib/gssapi<span</pre> class="o">/spnego/spnego_mech.c </div> </div> and the initial implementation of incremental propagation, including the following new or changed files:

```
<div class="highlight-python"><div class="highlight"><span class="n">include</span><span</pre>
class="0">/</span><span class="n">iprop_hdr</span><span class="0">.</span><span class="n">h</span>
<span class="n">kadmin</span><span class="o">/</span><span class="n">server</span><span</pre>
class="o">/</span><span class="n">ipropd_svc</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">kdb</span><span class="o">/</span><span
class="n">iprop</span><span class="o">.</span><span class="n">x</span>
<span class="n">lib</span><span class="o">/</span><span class="n">kdb</span><span class="o">/</span><span</pre>
class="n">kdb_convert</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">kdb</span><span class="o">/</span><span
class="n">kdb log</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">kdb</span><span class="o">/</span><span
class="n">kdb_log</span><span class="o">.</span><span class="n">h</span>
<span class="n">lib</span><span class="o">/</span><span class="n">krb5</span><span</pre>
class="o">/</span><span class="n">error_tables</span><span class="o">/</span><span
class="n">kdb5_err</span><span class="o">.</span><span class="n">et</span>
<span class="n">slave</span><span class="o">/</span><span class="n">kpropd rpc</span><span</pre>
class="o">.</span><span class="n">c</span>
<span class="n">slave</span><span class="o">/</span><span class="n">kproplog</span><span</pre>
class="o">.</span><span class="n">c</span>
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lib/gssapi/mechglue/g_accept_sec_context.c

lib/gssapi/mechglue/g_acquire_cred.c

lib/gssapi/mechglue/g_canon_name.c

lib/gssapi/mechglue/g_compare_name.c

lib/gssapi/mechglue/g_context_time.c

lib/gssapi/mechglue/g_delete_sec_context.c

lib/gssapi/mechglue/g_dsp_name.c

lib/gssapi/mechglue/g_dsp_status.c

lib/gssapi/mechglue/g_dup_name.c

lib/gssapi/mechglue/g_exp_sec_context.c

lib/gssapi/mechglue/g_export_name.c

lib/gssapi/mechglue/g_glue.c

lib/gssapi/mechglue/g imp name.c

lib/gssapi/mechglue/g_imp_sec_context.c

lib/gssapi/mechglue/g_init_sec_context.c

lib/gssapi/mechglue/g_initialize.c

lib/gssapi/mechglue/g_inquire_context.c

 $lib/gssapi/mechglue/g_inquire_cred.c$

lib/gssapi/mechglue/g_inquire_names.c

lib/gssapi/mechglue/g_process_context.c

lib/gssapi/mechglue/g_rel_buffer.c

lib/gssapi/mechglue/g_rel_cred.c

lib/gssapi/mechglue/g_rel_name.c

lib/gssapi/mechglue/g_rel_oid_set.c

lib/gssapi/mechglue/g_seal.c

lib/gssapi/mechglue/g_sign.c

lib/gssapi/mechglue/g_store_cred.c

lib/gssapi/mechglue/g_unseal.c

lib/gssapi/mechglue/g_userok.c

 $lib/gssapi/mechglue/g_utils.c$

lib/gssapi/mechglue/g_verify.c

 $lib/gssapi/mechglue/gssd_pname_to_uid.c$

lib/gssapi/mechglue/mglueP.h

lib/gssapi/mechglue/oid_ops.c

lib/gssapi/spnego/gssapiP_spnego.h

lib/gssapi/spnego/spnego_mech.c

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.. parsed-literal::

include/iprop_hdr.h kadmin/server/ipropd_svc.c lib/kdb/iprop.x lib/kdb/kdb_convert.c lib/kdb/kdb_log.c lib/kdb/kdb_log.h lib/krb5/error_tables/kdb5_err.et slave/kpropd_rpc.c slave/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in

"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et

lib/gssapi/mechglue/g_accept_sec_context.c

lib/gssapi/mechglue/g_acquire_cred.c

lib/gssapi/mechglue/g_canon_name.c

lib/gssapi/mechglue/g_compare_name.c

lib/gssapi/mechglue/g_context_time.c

lib/gssapi/mechglue/g_delete_sec_context.c

lib/gssapi/mechglue/g_dsp_name.c

lib/gssapi/mechglue/g_dsp_status.c

lib/gssapi/mechglue/g_dup_name.c

lib/gssapi/mechglue/g_exp_sec_context.c

lib/gssapi/mechglue/g_export_name.c

lib/gssapi/mechglue/g_glue.c

lib/gssapi/mechglue/g_imp_name.c

lib/gssapi/mechglue/g_imp_sec_context.c

lib/gssapi/mechglue/g_init_sec_context.c

lib/gssapi/mechglue/g_initialize.c

lib/gssapi/mechglue/g_inquire_context.c

lib/gssapi/mechglue/g_inquire_cred.c

lib/gssapi/mechglue/g_inquire_names.c

lib/gssapi/mechglue/g_process_context.c

lib/gssapi/mechglue/g_rel_buffer.c

lib/gssapi/mechglue/g_rel_cred.c

lib/gssapi/mechglue/g_rel_name.c

lib/gssapi/mechglue/g_rel_oid_set.c

lib/gssapi/mechglue/g_seal.c

lib/gssapi/mechglue/g_sign.c

lib/gssapi/mechglue/g_store_cred.c

lib/gssapi/mechglue/g_unseal.c

lib/gssapi/mechglue/g_userok.c

lib/gssapi/mechglue/g_utils.c

lib/gssapi/mechglue/g_verify.c

 $lib/gssapi/mechglue/gssd_pname_to_uid.c$

lib/gssapi/mechglue/mglueP.h

lib/gssapi/mechglue/oid_ops.c

lib/gssapi/spnego/gssapiP_spnego.h

lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files: include/iprop_hdr.h kadmin/server/ipropd_svc.c lib/kdb/iprop.x lib/kdb/kdb_convert.c lib/kdb/kdb_log.c lib/kdb/kdb_log.h lib/krb5/error_tables/kdb5_err.et slave/kpropd_rpc.c slave/kproplog.c

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1.46 lcms2 2.6 :3.el7

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1.48 libcap-ng 0.7.5 :4.el7

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@@ -16,16 +16,27 @@
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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*/

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1.61 libXau 1.0.8 :2.1.el7

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1.63 libXext 1.3.3 :3.el7

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1.64 lm_sensors 3.4.0

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* Frodo Looijaard

Original author of libsensors, sensors-detect, sensors and isadump.

* Merlin Hughes

Original author of sensord.

* Bob Schlaermann

Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.

* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

1.65 lua 5.1.4 :15.el7

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1.68 mako 0.2.5

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1.69 matplotlib 1.5.0

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Comment found in jQuery source code:

```
/*!

* jQuery JavaScript Library v1.11.3

* http://jquery.com/

*

* Includes Sizzle.js

* http://sizzlejs.com/

*
```

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*

* Date: 2015-04-28T16:19Z

*/

Comment found in ¡Query UI source code:

```
/*! jQuery UI - v1.11.4 - 2015-03-11
```

- * http://jqueryui.com
- * Includes: core.js, widget.js, mouse.js, position.js, accordion.js, autocomplete.js, button.js, datepicker.js, dialog.js, draggable.js, droppable.js, effect.js, effect-blind.js, effect-bounce.js, effect-clip.js, effect-drop.js, effect-explode.js, effect-fade.js, effect-fold.js, effect-highlight.js, effect-pulf.js, effect-pulsate.js, effect-scale.js, effect-shake.js, effect-size.js, effect-slide.js, selectmenu.js, slider.js, sortable.js, spinner.js, tabs.js, tooltip.js
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Module creating PyQt4 form dialogs/layouts to edit various type of parameters

formlayout l	License A	Agreement	(MIT	License)

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AUTHOR

David H. Munro wrote Yorick and Gist. Berkeley Yacc (byacc) generated

the Yorick parser. The routines in Math are from LAPACK and FFTPACK; MathC contains C translations by David H. Munro. The algorithms for Yorick's random number generator and several special functions in Yorick/include were taken from Numerical Recipes by Press, et. al., although the Yorick implementations are unrelated to those in Numerical Recipes. A small amount of code in Gist was adapted from the X11R4 release, copyright M.I.T. -- the complete copyright notice may be found in the (unused) file Gist/host.c.

Font Metrics for the 14 PDF Core Fonts

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Copyright FAQ

1. I don't understand the resale restriction... What gives?

Bitstream is giving away these fonts, but wishes to ensure its competitors can't just drop the fonts as is into a font sale system and sell them as is. It seems fair that if Bitstream can't make money from the Bitstream Vera fonts, their competitors should not be able to do so either. You can sell the fonts as part of any software package, however.

2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves. See 1. above.

3. Are derivative works allowed?

Yes!

4. Can I change or add to the font(s)?Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for

"sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

Contained herin is the Bitstream Vera font family.

The Copyright information is found in the COPYRIGHT.TXT file (along with being incoporated into the fonts themselves).

The releases notes are found in the file "RELEASENOTES.TXT".

We hope you enjoy Vera!

Bitstream, Inc.
The Gnome Project
Bitstream Vera Fonts - April 16, 2003

The version number of these fonts is 1.10 to distinguish them from the beta test fonts.

Note that the Vera copyright is incorporated in the fonts themselves. The License field in the fonts contains the copyright license as it appears below. The TrueType copyright field is not large enough to contain the full license, so the license is incorporated (as you might think if you thought about it) into the license field, which unfortunately can be obscure to find. (In pfaedit, see: Element->Font Info->TTFNames->License).

Our apologies for it taking longer to complete the fonts than planned. Beta testers requested a tighter line spacing (less leading) and Jim Lyles redesigned Vera's accents to bring its line spacing to more typical of other fonts. This took additional time and effort. Our thanks to Jim for this effort above and beyond the call of duty.

There are four monospace and sans faces (normal, oblique, bold, bold oblique) and two serif faces (normal and bold). Fontconfig/Xft2 (see www.fontconfig.org) can artificially oblique the serif faces for you: this loses hinting and distorts the faces slightly, but is visibly different than normal and bold, and reasonably pleasing.

On systems with fontconfig 2.0 or 2.1 installed, making your sans, serif and monospace fonts default to these fonts is very easy. Just drop the file local.conf into your /etc/fonts directory. This will make the Bitstream fonts your default fonts for all applications using fontconfig (if sans, serif, or monospace names are used, as they often are as default values in many desktops). The XML in local.conf may need modification to enable subpixel decimation, if appropriate, however, the commented out phrase does so for XFree86 4.3, in the case that the server does not have sufficient information to identify the

use of a flat panel. Fontconfig 2.2 adds Vera to the list of font families and will, by default use it as the default sans, serif and monospace fonts.

During the testing of the final Vera fonts, we learned that screen fonts in general are only typically hinted to work correctly at integer pixel sizes. Vera is coded internally for integer sizes only. We need to investigate further to see if there are commonly used fonts that are hinted to be rounded but are not rounded to integer sizes due to oversights in their coding.

Most fonts work best at 8 pixels and below if anti-aliased only, as the amount of work required to hint well at smaller and smaller sizes becomes astronomical. GASP tables are typically used to control whether hinting is used or not, but Freetype/Xft does not currently support GASP tables (which are present in Vera).

To mitigate this problem, both for Vera and other fonts, there will be (very shortly) a new fontconfig 2.2 release that will, by default not apply hints if the size is below 8 pixels. if you should have a font that in fact has been hinted more agressively, you can use fontconfig to note this exception. We believe this should improve many hinted fonts in addition to Vera, though implemeting GASP support is likely the right long term solution.

Font rendering in Gnome or KDE is the combination of algorithms in Xft2 and Freetype, along with hinting in the fonts themselves. It is vital to have sufficient information to disentangle problems that you may observe.

Note that having your font rendering system set up correctly is vital to proper judgement of problems of the fonts:

- * Freetype may or may not be configured to in ways that may implement execution of possibly patented (in some parts of the world)

 TrueType hinting algorithms, particularly at small sizes. Best results are obtained while using these algorithms.
- * The freetype autohinter (used when the possibly patented algorithms are not used) continues to improve with each release. If you are using the autohinter, please ensure you are using an up to date version of freetype before reporting problems.
- * Please identify what version of freetype you are using in any bug reports, and how your freetype is configured.
- * Make sure you are not using the freetype version included in XFree86 4.3, as it has bugs that significantly degrade most fonts,

including Vera. if you build XFree86 4.3 from source yourself, you may have installed this broken version without intending it (as I did). Vera was verified with the recently released Freetype 2.1.4. On many systems, 'ldd" can be used to see which freetype shared library is actually being used.

- * Xft/X Render does not (yet) implement gamma correction. This causes significant problems rendering white text on a black background (causing partial pixels to be insufficiently shaded) if the gamma of your monitor has not been compensated for, and minor problems with black text on a while background. The program "xgamma" can be used to set a gamma correction value in the X server's color pallette. Most monitors have a gamma near 2.
- * Note that the Vera family uses minimal delta hinting. Your results on other systems when not used anti-aliased may not be entirely satisfying. We are primarily interested in reports of problems on open source systems implementing Xft2/fontconfig/freetype (which implements antialiasing and hinting adjustements, and sophisticated subpixel decimation on flatpanels). Also, the algorithms used by Xft2 adjust the hints to integer widths and the results are crisper on open source systems than on Windows or MacIntosh.
- * Your fontconfig may (probably does) predate the release of fontconfig 2.2, and you may see artifacts not present when the font is used at very small sizes with hinting enabled. "vc-list -V" can be used to see what version you have installed.

We believe and hope that these fonts will resolve the problems reported during beta test. The largest change is the reduction of leading (interline spacing), which had annoyed a number of people, and reduced Vera's utility for some applications. The Vera monospace font should also now make '0' and '0' and '1' and '1' more clearly distinguishable.

The version of these fonts is version 1.10. Fontconfig should be choosing the new version of the fonts if both the released fonts and beta test fonts are installed (though please discard them: they have names of form tt20[1-12]gn.ttf). Note that older versions of fontconfig sometimes did not rebuild their cache correctly when new fonts are installed: please upgrade to fontconfig 2.2. "fc-cache -f" can be used to force rebuilding fontconfig's cache files.

If you note problems, please send them to fonts at gnome dot org, with exactly which face and size and unicode point you observe the problem at. The xfd utility from XFree86 CVS may be useful for this (e.g., "xfd -fa sans"). A possibly more useful program to examine fonts at a

variety of sizes is the "waterfall" program found in Keith Packard's CVS.

\$ cvs -d :pserver:anoncvs@keithp.com:/local/src/CVS login

Logging in to :pserver:anoncvs@keithp.com:2401/local/src/CVS

CVS password: <hit return>

\$ cvs -d :pserver:anoncvs@keithp.com:/local/src/CVS co waterfall

\$ cd waterfall

\$ xmkmf -a

\$ make

make install

make install.man

Again, please make sure you are running an up-to-date freetype, and that you are only examining integer sizes.

Reporting Problems

Please send problem reports to fonts at gnome org, with the following information:

- 1. Version of Freetype, Xft2 and fontconfig
- 2. Whether TT hinting is being used, or the autohinter
- 3. Application being used
- 4. Character/Unicode code point that has problems (if applicable)
- 5. Version of which operating system
- 6. Please include a screenshot, when possible.

Please check the fonts list archives before reporting problems to cut down on duplication.

The Anti-Grain Geometry Project
A high quality rendering engine for C++

http://antigrain.com

Anti-Grain Geometry - Version 2.4

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*/
```

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AUTHOR

David H. Munro wrote Yorick and Gist. Berkeley Yacc (byacc) generated the Yorick parser. The routines in Math are from LAPACK and FFTPACK; MathC contains C translations by David H. Munro. The algorithms for Yorick's random number generator and several special functions in Yorick/include were taken from Numerical Recipes by Press, et. al., although the Yorick implementations are unrelated to those in Numerical Recipes. A small amount of code in Gist was adapted from the X11R4 release, copyright M.I.T. -- the complete copyright notice may be found in the (unused) file Gist/host.c.

Font Metrics for the 14 PDF Core Fonts

This directory contains font metrics for the 14 PDF Core Fonts, downloaded from Adobe. The title and this paragraph were added by Matplotlib developers. The download URL was http://partners.adobe.com/public/developer/font/index.html>.

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The STIX fonts distributed with matplotlib have been modified from their canonical form. They have been converted from OTF to TTF format using Fontforge and this script:

```
#!/usr/bin/env fontforge
i=1
while ( i<$argc )
   Open($argv[i])
   Generate($argv[i]:r + ".ttf")
   i = i+1</pre>
```

The original STIX Font License begins below.
STIX Font License
24 May 2010

endloop

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Copyright FAQ

1. I don't understand the resale restriction... What gives?

Bitstream is giving away these fonts, but wishes to ensure its competitors can't just drop the fonts as is into a font sale system and sell them as is. It seems fair that if Bitstream can't make money from the Bitstream Vera fonts, their competitors should not be able to do so either. You can sell the fonts as part of any software package, however.

2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves. See 1. above.

3. Are derivative works allowed?

- 4. Can I change or add to the font(s)?Yes, but you must change the name(s) of the font(s).
- 5. Under what terms are derivative works allowed?

You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

Contained herin is the Bitstream Vera font family.

The Copyright information is found in the COPYRIGHT.TXT file (along

with being incoporated into the fonts themselves).

The releases notes are found in the file "RELEASENOTES.TXT".

We hope you enjoy Vera!

Bitstream, Inc.
The Gnome Project

Bitstream Vera Fonts - April 16, 2003

The version number of these fonts is 1.10 to distinguish them from the beta test fonts.

Note that the Vera copyright is incorporated in the fonts themselves. The License field in the fonts contains the copyright license as it appears below. The TrueType copyright field is not large enough to contain the full license, so the license is incorporated (as you might think if you thought about it) into the license field, which unfortunately can be obscure to find. (In pfaedit, see: Element->Font Info->TTFNames->License).

Our apologies for it taking longer to complete the fonts than planned. Beta testers requested a tighter line spacing (less leading) and Jim Lyles redesigned Vera's accents to bring its line spacing to more typical of other fonts. This took additional time and effort. Our thanks to Jim for this effort above and beyond the call of duty.

There are four monospace and sans faces (normal, oblique, bold, bold oblique) and two serif faces (normal and bold). Fontconfig/Xft2 (see www.fontconfig.org) can artificially oblique the serif faces for you: this loses hinting and distorts the faces slightly, but is visibly different than normal and bold, and reasonably pleasing.

On systems with fontconfig 2.0 or 2.1 installed, making your sans, serif and monospace fonts default to these fonts is very easy. Just drop the file local.conf into your /etc/fonts directory. This will make the Bitstream fonts your default fonts for all applications using fontconfig (if sans, serif, or monospace names are used, as they often are as default values in many desktops). The XML in local.conf may need modification to enable subpixel decimation, if appropriate, however, the commented out phrase does so for XFree86 4.3, in the case that the server does not have sufficient information to identify the use of a flat panel. Fontconfig 2.2 adds Vera to the list of font families and will, by default use it as the default sans, serif and monospace fonts.

During the testing of the final Vera fonts, we learned that screen

fonts in general are only typically hinted to work correctly at integer pixel sizes. Vera is coded internally for integer sizes only. We need to investigate further to see if there are commonly used fonts that are hinted to be rounded but are not rounded to integer sizes due to oversights in their coding.

Most fonts work best at 8 pixels and below if anti-aliased only, as the amount of work required to hint well at smaller and smaller sizes becomes astronomical. GASP tables are typically used to control whether hinting is used or not, but Freetype/Xft does not currently support GASP tables (which are present in Vera).

To mitigate this problem, both for Vera and other fonts, there will be (very shortly) a new fontconfig 2.2 release that will, by default not apply hints if the size is below 8 pixels. if you should have a font that in fact has been hinted more agressively, you can use fontconfig to note this exception. We believe this should improve many hinted fonts in addition to Vera, though implemeting GASP support is likely the right long term solution.

Font rendering in Gnome or KDE is the combination of algorithms in Xft2 and Freetype, along with hinting in the fonts themselves. It is vital to have sufficient information to disentangle problems that you may observe.

Note that having your font rendering system set up correctly is vital to proper judgement of problems of the fonts:

- * Freetype may or may not be configured to in ways that may implement execution of possibly patented (in some parts of the world)

 TrueType hinting algorithms, particularly at small sizes. Best results are obtained while using these algorithms.
- * The freetype autohinter (used when the possibly patented algorithms are not used) continues to improve with each release. If you are using the autohinter, please ensure you are using an up to date version of freetype before reporting problems.
- * Please identify what version of freetype you are using in any bug reports, and how your freetype is configured.
- * Make sure you are not using the freetype version included in XFree86 4.3, as it has bugs that significantly degrade most fonts, including Vera. if you build XFree86 4.3 from source yourself, you may have installed this broken version without intending it (as I did). Vera was verified with the recently released Freetype 2.1.4. On many systems, 'ldd" can be used to see which freetype shared library is actually being used.

- * Xft/X Render does not (yet) implement gamma correction. This causes significant problems rendering white text on a black background (causing partial pixels to be insufficiently shaded) if the gamma of your monitor has not been compensated for, and minor problems with black text on a while background. The program "xgamma" can be used to set a gamma correction value in the X server's color pallette. Most monitors have a gamma near 2.
- * Note that the Vera family uses minimal delta hinting. Your results on other systems when not used anti-aliased may not be entirely satisfying. We are primarily interested in reports of problems on open source systems implementing Xft2/fontconfig/freetype (which implements antialiasing and hinting adjustements, and sophisticated subpixel decimation on flatpanels). Also, the algorithms used by Xft2 adjust the hints to integer widths and the results are crisper on open source systems than on Windows or MacIntosh.
- * Your fontconfig may (probably does) predate the release of fontconfig 2.2, and you may see artifacts not present when the font is used at very small sizes with hinting enabled. "vc-list -V" can be used to see what version you have installed.

We believe and hope that these fonts will resolve the problems reported during beta test. The largest change is the reduction of leading (interline spacing), which had annoyed a number of people, and reduced Vera's utility for some applications. The Vera monospace font should also now make '0' and '0' and '1' and '1' more clearly distinguishable.

The version of these fonts is version 1.10. Fontconfig should be choosing the new version of the fonts if both the released fonts and beta test fonts are installed (though please discard them: they have names of form tt20[1-12]gn.ttf). Note that older versions of fontconfig sometimes did not rebuild their cache correctly when new fonts are installed: please upgrade to fontconfig 2.2. "fc-cache -f" can be used to force rebuilding fontconfig's cache files.

If you note problems, please send them to fonts at gnome dot org, with exactly which face and size and unicode point you observe the problem at. The xfd utility from XFree86 CVS may be useful for this (e.g., "xfd -fa sans"). A possibly more useful program to examine fonts at a variety of sizes is the "waterfall" program found in Keith Packard's CVS.

\$ cvs -d :pserver:anoncvs@keithp.com:/local/src/CVS login Logging in to :pserver:anoncvs@keithp.com:2401/local/src/CVS CVS password: <hit return>

\$ cvs -d :pserver:anoncvs@keithp.com:/local/src/CVS co waterfall

\$ cd waterfall

\$ xmkmf -a

\$ make

make install

make install.man

Again, please make sure you are running an up-to-date freetype, and that you are only examining integer sizes.

Reporting Problems

Please send problem reports to fonts at gnome org, with the following information:

- 1. Version of Freetype, Xft2 and fontconfig
- 2. Whether TT hinting is being used, or the autohinter
- 3. Application being used
- 4. Character/Unicode code point that has problems (if applicable)
- 5. Version of which operating system
- 6. Please include a screenshot, when possible.

Please check the fonts list archives before reporting problems to cut down on duplication.

The Anti-Grain Geometry Project
A high quality rendering engine for C++
http://antigrain.com

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Comment found in jQuery source code:

```
/*!

* jQuery JavaScript Library v1.11.3

* http://jquery.com/

* Includes Sizzle.js

* http://sizzlejs.com/

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* Date: 2015-04-28T16:19Z

*/
```

Comment found in jQuery UI source code:

```
/*! jQuery UI - v1.11.4 - 2015-03-11
```

^{*} http://jqueryui.com

^{*} Includes: core.js, widget.js, mouse.js, position.js, accordion.js, autocomplete.js, button.js, datepicker.js, dialog.js,

draggable.js, droppable.js, effect.js, effect-blind.js, effect-bounce.js, effect-clip.js, effect-drop.js, effect-explode.js, effect-fade.js, effect-fold.js, effect-highlight.js, effect-puff.js, effect-pulsate.js, effect-scale.js, effect-shake.js, effect-size.js, effect-slide.js, effect-transfer.js, menu.js, progressbar.js, resizable.js, selectable.js, selectmenu.js, slider.js, sortable.js, spinner.js, tabs.js, tooltip.js

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Module creating PyQt4 form dialogs/layouts to edit various type of parameters

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AUTHOR

David H. Munro wrote Yorick and Gist. Berkeley Yacc (byacc) generated the Yorick parser. The routines in Math are from LAPACK and FFTPACK; MathC contains C translations by David H. Munro. The algorithms for Yorick's random number generator and several special functions in Yorick/include were taken from Numerical Recipes by Press, et. al., although the Yorick implementations are unrelated to those in Numerical Recipes. A small amount of code in Gist was adapted from the X11R4 release, copyright M.I.T. -- the complete copyright notice may be found in the (unused) file Gist/host.c.

1.70 merge-sort 1.0

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1.79 omniORBpy 4.2.0 :5.el7

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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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.)

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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.

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- e) Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

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1.84 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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- /* crypto/aes/aes wrap.c */
- /* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
- * project.
- * Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
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1.85 pam 1.1.8 :22.el7

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1.86 paste 1.7.2

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1.87 pastedeploy 1.3.3

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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!
{{else}}
{{skip_template()}}
{{endif}}
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1.89.1 Available under license:

1.89 pcre 8.32 :17.el7

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel Email local part: ph10

Email domain: cam.ac.uk

University of Cambridge Computing Service, Cambridge, England.

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Written by: Zoltan Herczeg Email local part: hzmester Emain domain: freemail.hu

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1.90 perl 5.16.3 :294.el7_6

1.90.1 Available under license:

```
use strict:
use lib 't/lib';
use MBTest:
use DistGen:
plan 'no_plan';
# Ensure any Module::Build modules are loaded from correct directory
blib load('Module::Build');
# Create test distribution
my $dist = DistGen->new(
 name => 'Simple::Name',
 version \Rightarrow '0.01',
 license => 'perl'
);
$dist->regen;
$dist->chdir_in;
my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is($mb->license, 'perl',
 "license 'perl' is valid"
);
my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'perl', "META license will be 'perl'" );
```

```
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
 "META license URL is correct"
);
}
my $dist = DistGen->new(
 name => 'Simple::Name',
 version \Rightarrow '0.01',
 license => 'VaporWare'
$dist->regen;
$dist->chdir_in;
my $mb = $dist->new_from_context();
isa ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
 "license 'VaporWare' is valid"
);
my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources} { license}, "http://example.com/vaporware/",
 "META license URL is correct"
);
# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2
This module is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
From f5488561bdaab57380bf07e8e66778503a41aca3 Mon Sep 17 00:00:00 2001
From: Father Chrysostomos <sprout@cpan.org>
Date: Sun, 23 Sep 2012 12:42:15 -0700
Subject: [PATCH] = ?UTF-8?q?Don=E2=80=99t=20leak=20if=20hh=20copying=20dies?=
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
When %'H is copied on entering a new scope, if it happens to have been
tied it can die. This was resulting in leaks, because no protections
were added to handle that case.
```

The two things that were leaking were the new hash in hv_copy_hints_hv

and the new value (for an element) in newSVsv.

By fixing newSVsv itself, this also fixes any potential leaks when other pieces of code call newSVsv on explosive values.

```
Petr Pisar: Ported to 5.16.3
        | 6+++++
hv.c
sv.c
        | 7 ++++---
3 files changed, 31 insertions(+), 4 deletions(-)
diff --git a/hv.c b/hv.c
index 3c35341..29d6352 100644
--- a/hv.c
+++ b/hv.c
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
const I32 riter = HvRITER get(ohv);
HE * const eiter = HvEITER_get(ohv);
+ ENTER;
+ SAVEFREESV(hv);
while (hv_max && hv_max + 1 \ge hv_fill * 2)
  hv_max = hv_max / 2;
HvMAX(hv) = hv max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
HvRITER_set(ohv, riter);
HvEITER_set(ohv, eiter);
+ SvREFCNT_inc_simple_void_NN(hv);
+ LEAVE;
  }
 hv_magic(hv, NULL, PERL_MAGIC_hints);
  return hv;
diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644
--- a/sv.c
+++ b/sv.c
@ @ -8764,11 +8764,12 @ @ Perl_newSVsv(pTHX_ register SV *const old)
Perl_ck_warner_d(aTHX_ packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");
return NULL;
  }
+ /* Do this here, otherwise we leak the new SV if this croaks. */
+ SvGETMAGIC(old);
  new_SV(sv);
- /* SV_GMAGIC is the default for sv_setv()
```

```
SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
+ /* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
    with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */
- sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+ sv_setsv_flags(sv, old, SV_NOSTEAL);
  return sv;
}
diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
or skip_all("XS::APItest not available");
-plan tests \Rightarrow 23;
+plan tests => 24;
# run some code N times. If the number of SVs at the end of loop N is
# greater than (N-1)*delta at the end of loop 1, we've got a leak
@@ -176,3 +176,23 @@ leak(2, 0, sub {
  each %$h;
  undef $h;
}, 'tied hash iteration does not leak');
+# [perl #107000]
+package hhtie {
+ sub TIEHASH { bless [] }
+ sub STORE \{ [0][0][ [1]] = [2] \}
+ sub FETCH { die if $explosive; $_[0][0]{$_[1]} }
+ sub FIRSTKEY { keys % {$_[0][0]}; each % {$_[0][0]} }
+ sub NEXTKEY { each % {$_[0][0]} }
+}
+leak(2,!!$Config{mad}, sub {
+ eval q
+ BEGIN {
+ $hhtie::explosive = 0;
+ tie %^H, hhtie;
+ $^H{foo} = bar;
    $hhtie::explosive = 1;
   }
+ { 1; }
+}, 'hint-hash copying does not leak');
1.8.1.4
```

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abstract: 'Build and install Perl modules' author:

- 'Ken Williams < kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the \n Module-Build mailing list at \m wodule-build perl.org>."

build_requires: File::Temp: 0.15 Test::Harness: 3.16 Test::More: 0.49

generated_by: 'Module::Build version 0.3608'

license: gpl meta-spec:

url: http://module-build.sourceforge.net/META-spec-v1.4.html

version: 1.4

name: Module-Build

resources:

MailingList: mailto:module-build@perl.org

license: http://dev.perl.org/licenses/

repository: http://github.com/dagolden/module-build/

version: 3

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Julian Seward, jseward@bzip.org bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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 year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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2.6.3	2.6.2	2009	PSF	yes	
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Mersenne Twister

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Sockets

The :mod:'socket' module uses the functions, :func:'getaddrinfo', and :func:'getnameinfo', which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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MD5 message digest algorithm

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L. Peter Deutsch ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

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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.

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	from		con	npatible? (1)
	HOIH		COII	ipatible: (1)
0.9.0 thru	1.2	1991-	-1995 CW	T yes
1.3 thru 1.5.2 1.2		1995	5-1999 CI	NRI yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.	.com no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6	5.1 2001	PSF	no
2.0.1	2.0+1.6	6.1 2001	l PSF	yes
2.1.1	2.1+2.0	0.1 2001	l PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2	003 PSF	yes
2.3.1	2.3	2002-2	003 PSF	yes
2.3.2	2.3.1	2002-2	2003 PSF	yes
2.3.3	2.3.2	2002-2	2003 PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
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1.101 python-dateutil 1.5

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2.2.1	2.2	2002	PSF	yes	
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1.116 Sacco-Vanzetti 2009-04-28

1.116.1 Available under license:

SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007

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1.117 shaka-packager v2.1.0

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1.118 simplejson 2.0.9

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1.119 six 1.8.0

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1.120 soxr 0.1.2 :1.el7

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Version 2.1, February 1999

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compiler/cpp/src/main.cc

compiler/cpp/src/parse/t_field.h

compiler/cpp/src/parse/t program.h

compiler/cpp/src/platform.h

compiler/cpp/src/thriftl.ll

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lib/csharp/src/Protocol/TBinaryProtocol.cs

lib/csharp/src/Protocol/TField.cs

lib/csharp/src/Protocol/TList.cs

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lib/csharp/src/Transport/TTransportFactory.cs

lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs

lib/csharp/ThriftMSBuildTask/ThriftBuild.cs

lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj

lib/rb/lib/thrift.rb

lib/st/README

lib/st/thrift.st test/OptionalRequiredTest.cpp test/OptionalRequiredTest.thrift test/ThriftTest.thrift
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1.130 util-linux 2.23.2 :59.el7

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The complete text of the license is available at the Documentation/licenses/COPYING.LGPLv2.1 file. Initialize empty image f1c9645dbc14efddc7d8a322685f26eb bsd.img Create new DOS partition table 57e721e38d1266c2df055067c18f2cf9 bsd.img

```
---layout-----
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001
  Device Boot
                Start
                           End Blocks Id System
_____
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img
---layout-----
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001
```

Create 2st primary partition

Start

2048

End

4095

Blocks Id System

1024 83 Linux

Device Boot

__ts_dev__1

Set 2nd partition type	
2d8e8dff51a88a045db233418dd73fbe bsd.img	
layout	
_ts_dev: 10 MB, 10485760 bytes, 20480 sectors	
Units = sectors of $1 * 512 = 512$ bytes	
Sector size (logical/physical): 512 bytes / 512 bytes	
I/O size (minimum/optimal): 512 bytes / 512 bytes	
Disk label type: dos	
Disk identifier: 0x00000001	
Device Boot Start End Blocks Id System	
_ts_dev1 2048 4095 1024 83 Linux	
_ts_dev2 4096 20479 8192 a5 FreeBSD	
Create default BSD	
2e1cee529cb59c9341afef0443f196a1 bsd.img	
layout	
Changes will remain in memory only, until you decide to write them.	
Be careful before using the write command.	
Command (m for hala):	
Command (m for help):	
BSD disklabel command (m for help):	
4 partitions:	
# start end size fstype [fsize bsize cpg]	
c: 4096 20479 16384 unused 0 0	
d: 0 16064 16065 unused 0 0	
6. 0 10001 10000 unused 0 0	
BSD disklabel command (m for help):	
Command (m for help):	
b5c121c2091b2ff26b880551feac7112 bsd.img	
layout	
•	
Changes will remain in memory only, until you decide to write them.	
Be careful before using the write command.	
Command (m for help):	

 $1bebf87248e05d6e4e62b749da65d023\ bsd.img$

```
BSD disklabel command (m for help):
```

4 partitions:

```
start
          end
                size
                      fstype [fsize bsize cpg]
   4096
          6144
                 2049
                        4.2BSD
                                     0 0
a:
   4096
          20479 16384
                                   0
                                     0
c:
                        unused
d:
     0
         16064
                16065
                        unused
                                  0
                                     0
```

BSD disklabel command (m for help):

Command (m for help):

Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

```
0 unused 5 4.1BSD 9 4.4LFS d boot
1 swap 6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
```

4 System V

BSD disklabel command (m for help):

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

#1: 32 7648 0x83 #2: 7680 8704 0xa5 #5: 7936 4864 0x7 (freebsd) #6: 12544 3584 0x7 (freebsd)

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1.132 webflash 0.1a9

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version = "1.7"
version info = (1,7,0,"rc-2")
__revision__ = "$Rev: 72 $"
Python-Markdown
Converts Markdown to HTML. Basic usage as a module:
  import markdown
  md = Markdown()
  html = md.convert(your text string)
See http://www.freewisdom.org/projects/python-markdown/ for more
information and instructions on how to extend the functionality of the
script. (You might want to read that before you try modifying this
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__authors__ = ["Roberto A. F. De Almeida (roberto@dealmeida.net)",
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__version__ = "2.0.10"
__date__ = "2004/10/06"
__copyright__ = """
Copyright (c) 2004, Roberto A. F. De Almeida, http://dealmeida.net/
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1.134 webob 0.9.8

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1.135 WebTest 1.2

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1.137 xerces-c 3.1.1 :9.el7

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1.138 xorg-x11 6.8.2 :15.0.7.0704666

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January 2002

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CISCO INTERNAL NOTATIONS

<brarobin, 2009-07-08>

Here is SGI's press release from 2008 announcing the supersession of SGI Free Software License B version 1.1 with version 2.0. I think we can therefore disregard the text of version 1.1 in the above, and focus instead on 2.0.

SUNNYVALE, Calif. (Sept. 19, 2008)? As software developers the world over prepare to mark the 25th anniversary of the GNU System, Silicon Graphics, Inc. (NASDAQ: SGIC) today announced it is releasing a new version of the SGI Free Software License B. The license, which now mirrors the free X11 license used by X.Org, further opens previously released SGI? graphics software that has set the industry standard for visualization software and has proven essential to GNU/Linux? and a host of applications.

Today's announcement affects software created by SGI that forms the building blocks of many elements of today's gaming, visual computing, and immersive experiential technologies, including a wide range of proven visualization

solutions provided by SGI.

Previous SGI contributions to the free and open source community are now available under the new license. These contributions include the SGI? OpenGL? Sample Implementation, the GLX? API and other GLX extensions. GLX provides the glue connecting OpenGL and the X Window System? and is required by any OpenGL implementation using X. GLX is vital to a range of free and commercial software, including all major Linux distributions.

SGI first released the software under a licensing model in 1999. But now SGI is pleased to release an updated version of the license that meets the free and open source software community's widely accepted definition of "free."

"SGI has been one of the most ardent commercial supporters of free and open source software, so it was important to us that we continue to support the free software development community by releasing our earlier OpenGL-related contributions under this new license," said Steve Neuner, director of Linux, SGI. "This license ensures that all existing user communities will benefit, and their work can proceed unimpeded. Both Mesa and the X.org Project can continue to utilize this code in free software distributions of GNU/Linux. Now more than ever, software previously released by SGI under earlier GLX and SGI Free Software License B is free."

Support from Free and Open Source community:

- * "We couldn't be happier with this decision, and we're very grateful to SGI for all their assistance," said Peter Brown, executive director, Free Software Foundation (FSF). "The FSF is committed to ensuring that everyone's computing tasks can be done with free software and this SGI code plays an important role in scientific and design applications and in the latest desktop environments and games." (www.fsf.org)
- * "Khronos applauds this move by SGI to adopt a new licensing model that will benefit the entire OpenGL community," said Neil Trevett,president of The Khronos Group, a member-funded industry consortium creating and evolving open standard APIs? including OpenGL. "It takes truly open standards to enable the authoring and playback of rich media on a wide variety of platforms and devices, and today's announcement shows real support for developers who rely on OpenGL, the planet's most widely deployed 2D and 3D graphics API." (www.khronos.org)

Additional information:

* Details on Version 2.0 of the SGI Free Software License B are available at: http://oss.sgi.com/projects/FreeB/

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1.141 zlib 1.2.7 :18.el7

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1.142 zope.interface 3.5.2

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1.143 zope.sqlalchemy 0.4

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