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# **Contents**

1.1 acl 2.2.51 :14.el7 1.1.1 Available under license 1.2 atomic\_ops 7.4.6 1.2.1 Available under license 1.3 attr 2.4.46 :13.el7 1.3.1 Available under license 1.4 audit 2.8.4 :4.el7 1.4.1 Available under license 1.5 beaker 1.4.2 1.5.1 Available under license 1.6 BeautifulSoup 4.3.2 :20131002 1.6.1 Available under license 1.7 Boost 1.60.0 1.7.1 Available under license 1.8 boost 1.53.0 :27.el7 1.8.1 Available under license 1.9 boost 1.67.0 1.9.1 Available under license 1.10 bzip2 1.0.6 :13.el7 1.10.1 Available under license 1.11 chartist-js 0.11.0 1.11.1 Available under license 1.12 chartist-plugin-axistitle 0.0.3

1.12.1 Available under license1.13 chartist-plugin-legend 0.6.11.13.1 Available under license

# 1.14 chartist-plugin-tooltip 0.0.12

1.14.1 Available under license

# 1.15 chartist-plugin-zoom 0.4.0

1.15.1 Available under license

# 1.16 CherryPy 3.1.2

1.16.1 Available under license

# 1.17 cpp-elasticsearch 1.0

1.17.1 Available under license

#### 1.18 curl 7.29.0 :51.el7

1.18.1 Available under license

# 1.19 cycler 0.9.0

1.19.1 Available under license

# 1.20 cyrus-sasl 2.1.26 :23.el7

1.20.1 Available under license

# 1.21 decorator 3.0.0

1.21.1 Available under license

# 1.22 Didier FEC N/A

1.22.1 Available under license

# 1.23 e2fsprogs 1.42.9 :13.el7

1.23.1 Available under license

#### 1.24 elfutils 0.172 :2.el7

1.24.1 Available under license

# 1.25 expat 2.1.0 :10.el7 3

1.25.1 Available under license

# 1.26 formencode 1.3.0a1

1.26.1 Available under license

# 1.27 freetype 2.8 :12.el7

1.27.1 Available under license

# 1.28 gcc 4.8.5 :36.el7

1.28.1 Available under license

# 1.29 glib2 2.56.1 :2.el7

1.29.1 Available under license

# 1.30 glibc 2.17 :260.el7

1.30.1 Available under license

# 1.31 GraphicsMagick 1.3.29 :1.el7

1.31.1 Available under license

# 1.32 gst-plugins-bad 1.6.4

1.32.1 Available under license

# 1.33 gst-plugins-base 1.6.4

- 1.33.1 Available under license
- 1.34 gst-plugins-good 1.6.4
  - 1.34.1 Available under license
- 1.35 gst-plugins-ugly 1.6.4
  - 1.35.1 Available under license
- 1.36 gst-template 0.0 :10.0
  - 1.36.1 Available under license
- 1.37 gst-template\_LGPLv2 0.0 :10.0
  - 1.37.1 Available under license
- 1.38 gstreamer1 1.6.4
  - 1.38.1 Available under license
- 1.39 herisson 0.0.1
  - 1.39.1 Available under license
- 1.40 ipaddr-py 2.1.10
  - 1.40.1 Available under license
- 1.41 jemalloc 3.6.0 :1.el7
  - 1.41.1 Available under license
- 1.42 JSON for Modern C++ 2,1,1
  - 1.42.1 Available under license
- 1.43 keyutils 1.5.8 :3.el7
  - 1.43.1 Available under license
- 1.44 keyutils\_tools-GPLv2 1.5.8 :3.el7
  - 1.44.1 Available under license
- 1.45 krb5 1.15.1 :34.el7
  - 1.45.1 Available under license
- 1.46 lcms2 2.6 :3.el7
  - 1.46.1 Available under license
- 1.47 libcap 2.22 :9.el7
  - 1.47.1 Available under license
- 1.48 libcap-ng 0.7.5 :4.el7
  - 1.48.1 Available under license
- 1.49 libdb 5.3.21 :24.el7
  - 1.49.1 Available under license
- 1.50 libffi 3.0.13 :18.el7
  - 1.50.1 Available under license
- 1.51 libICE 1.0.9 :9.el7
  - 1.51.1 Available under license
- 1.52 libidn 1.28 :4.el7
  - 1.52.1 Available under license

# 1.53 libnl 1.1.4 :3.el7

1.53.1 Available under license

# 1.54 libpcap 1.5.3 :11.el7

1.54.1 Available under license

# 1.55 libpng 1.5.13 :7.el7\_2

1.55.1 Available under license

#### 1.56 libselinux 2.5 :14.1.el7

1.56.1 Available under license

#### 1.57 libSM 1.2.2 :2.el7

1.57.1 Available under license

# 1.58 libssh2 1.4.3 :12.el7

1.58.1 Available under license

# 1.59 libtool 2.4.2 :22.el7 3

1.59.1 Available under license

# 1.60 libX11 1.6.5 :2.el7

1.60.1 Available under license

# 1.61 libXau 1.0.8 :2.1.el7

1.61.1 Available under license

#### 1.62 libxcb 1.13 :1.el7

1.62.1 Available under license

#### 1.63 libXext 1.3.3 :3.el7

1.63.1 Available under license

# 1.64 lm\_sensors 3.4.0 :6.20160601gitf9185e5.el7

1.64.1 Available under license

#### 1.65 lua 5.1.4 :15.el7

1.65.1 Available under license

# 1.66 Luigi FEC N/A

# 1.67 makeself 2.2.0

1.67.1 Available under license

# 1.68 mako 0.2.5

1.68.1 Available under license

# 1.69 matplotlib 1.5.0

1.69.1 Available under license

# 1.70 merge-sort 1.0

1.70.1 Available under license

# 1.71 net-snmp 5.7.2 :37.el7

1.71.1 Available under license

# 1.72 nspr 4.19.0 :1.el7\_5

1.72.1 Available under license

## 1.73 nss 3.36.0 :7.el7 5

1.73.1 Available under license

#### 1.74 nss-softokn 3.36.0 :5.el7 5

1.74.1 Available under license

# 1.75 nss-util 3.36.0 :1.el7\_5

1.75.1 Available under license

# 1.76 numactl 2.0.9 :7.el7

# 1.77 numpy 1.10.2

1.77.1 Available under license

#### 1.78 omniORB 4.2.0 :3.el7

1.78.1 Available under license

# 1.79 omniORBpy 4.2.0 :5.el7

1.79.1 Available under license

# 1.80 openIdap 2.4.44 :20.el7

1.80.1 Available under license

# 1.81 OpenSSL 1.0.2h :1

1.81.1 Notifications

1.81.2 Available under license

# 1.82 openssl 1.0.2k :16.el7

1.82.1 Available under license

# 1.83 OpenSSL 1.0.2h

1.83.1 Available under license

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

1.84.1 Notifications

1.84.2 Available under license

# 1.85 pam 1.1.8 :22.el7

1.85.1 Available under license

#### 1.86 paste 1.7.2

1.86.1 Available under license

# 1.87 pastedeploy 1.3.3

1.87.1 Available under license

# 1.88 pastescript 1.7.3

1.88.1 Available under license

# 1.89 pcre 8.32 :17.el7

1.89.1 Available under license

# 1.90 perl 5.16.3 :293.el7

1.90.1 Available under license

# 1.91 pistache 1.0:0.0

1.91.1 Available under license

# 1.92 poco 1.6.1 :3.el7

1.92.1 Available under license

# 1.93 popt 1.13 :16.el7

1.93.1 Available under license

# 1.94 pyjwt 1.4.2

1.94.1 Available under license

# 1.95 pylons 0.9.7

1.95.1 Available under license

# 1.96 pyOpenSSL 0.10

1.96.1 Available under license

# 1.97 pyparsing 2.0.7

1.97.1 Available under license

# 1.98 pyrad 2.0 :May 15, 2011

1.98.1 Available under license

# 1.99 pySQLite 2.5.6

1.99.1 Available under license

# 1.100 python 2.7.5 :76.el7

1.100.1 Available under license

#### 1.101 python-dateutil 1.5

1.101.1 Available under license

# 1.102 python-pam 1.8.2

1.102.1 Available under license

# 1.103 pytz 2015.7

1.103.1 Available under license

#### 1.104 repoze.tm2 1.0a5

1.104.1 Available under license

# 1.105 repoze.what 1.0.8

1.105.1 Available under license

# 1.106 repoze.what-pylons 1.0

1.106.1 Available under license

# 1.107 repoze.what-quickstart 1.0.6

1.107.1 Available under license

# 1.108 repoze.what.pluggins.sql 1.0

1.108.1 Available under license

# 1.109 repoze.who 1.0.18

1.109.1 Available under license

# 1.110 repoze.who-friendlyform 1.0.1

1.110.1 Available under license

1.111 repoze.who-testutil 1.0

1.111.1 Available under license

# 1.112 repoze.who.plugins.sa 1.0rc2

1.112.1 Available under license

1.113 routes 1.10.3

1.113.1 Available under license

1.114 rpm 4.11.3 :35.el7

1.114.1 Available under license

1.115 Sacco-Vanzetti 2009-04-28

1.115.1 Available under license

1.116 shaka-packager v2.1.0

1.116.1 Available under license

1.117 simplejson 2.0.9

1.117.1 Available under license

1.118 six 1.8.0

1.118.1 Available under license

1.119 soxr 0.1.2 :1.el7

1.119.1 Available under license

1.120 SQLAIchemy 0.5.6

1.120.1 Available under license

1.121 tcp wrappers 7.6 :77.el7

1.121.1 Available under license

1.122 Tempita 0.4

1.122.1 Available under license

1.123 tgext.admin 0.3.6

1.123.1 Available under license

1.124 tgext.crud 0.3.4

1.124.1 Available under license

1.125 thrift 0.9.1 :15.el7

1.125.1 Available under license

1.126 transaction 1.0.0

1.126.1 Available under license

**1.127 TurboGears 2.1b2** 

1.127.1 Available under license

1.128 util-linux 2.23.2 :59.el7

1.128.1 Available under license

1.129 WebError 0.10.1

1.129.1 Available under license

1.130 webflash 0.1a9

1.130.1 Available under license

# 1.131 WebHelpers 0.6.4

1.131.1 Available under license

#### 1.132 webob 0.9.8

1.132.1 Available under license

#### 1.133 WebTest 1.2

1.133.1 Available under license

# 1.134 wsgiref 0.1.2

1.134.1 Available under license

# 1.135 xerces-c 3.1.1 :9.el7

1.135.1 Available under license

# 1.136 xorg-x11 6.8.2 :15.0.7.0704666

1.136.1 Available under license

#### 1.137 xz 5.2.2 :1.el7

1.137.1 Available under license

# 1.138 YADIF 2.7

1.138.1 Available under license

#### 1.139 zlib 1.2.7 :18.el7

1.139.1 Available under license

#### **1.140 zope.interface 3.5.2**

1.140.1 Available under license

# 1.141 zope.sqlalchemy 0.4

1.141.1 Available under license

# 1.1 acl 2.2.51 :14.el7

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# 1.2 atomic\_ops 7.4.6

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## 1.5 beaker 1.4.2

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Beautiful Soup incorporates code from the html5lib library, which is also made available under the MIT license.

## 1.7 Boost 1.60.0

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```
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*/
#include "licence info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
 const fs::path& root;
 const fs::path& file;
 split_path(const fs::path& r, const fs::path& f)
   : root(r), file(f){}
private:
```

```
split_path& operator=(const split_path&);
};
std::ostream& operator << (std::ostream& os, const split_path& p)
os << "<a href=\"" << (p.root / p.file).string() << "\">" << p.file.string() << "</a>";
return os;
}
std::string make_link_target(const std::string& s)
// convert an arbitrary string into something suitable
// for an <a> name:
 std::string result;
 for(unsigned i = 0; i < s.size(); ++i)
   result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
return result;
}
void bcp_implementation::output_license_info()
 std::pair<const license_info*, int> licenses = get_licenses();
 std::map<int, license_data>::const_iterator i, j;
i = m_license_data.begin();
j = m_license_data.end();
 std::ofstream os(m_dest_path.string().c_str());
 if(!os)
   std::string msg("Error opening ");
   msg += m_dest_path.string();
   msg += " for output.";
   std::runtime_error e(msg);
   boost::throw_exception(e);
 }
 os <<
   "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\">\n"
   "<html>\n"
   "<head>\n"
   "<title>Boost Licence Dependency Information";
 if(m_module_list.size() == 1)
 {
  os << " for " << *(m_module_list.begin());
 }
```

```
os <<
 "</title>\n"
 "</head>\n"
 "<body>\n"
 "<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
 os << " for " << *(m_module_list.begin());
os <<
 "</H1>\n"
 "<H2>Contents</h2>\n"
 "<a href=\"#input\">Input Information</a>\n";
if(!m_bsl_summary_mode)
 os << "<a href=\"#summary\">Licence Summary</a>\n";
os << "<a href=\"#details\">Licence Details</a>\n";
while(i != j)
{
 // title:
 os << " <A href=\"#" << make link target(licenses.first[i->first].license name)
   << "\">" << licenses.first[i->first].license_name << "</a>\n";
 ++i;
}
os << "<a href=\"#files\">Files with no recognised license</a>\n"
 "<a href=\"#authors\">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
 os <<
 "Moving to the Boost Software License...\n"
 " <a href=\"#bsl-converted\">Files that can be automatically converted to the Boost Software License</a>\n"
 " <a href=\"#to-bsl\">Files that can be manually converted to the Boost Software License</a>\n"
 " <a href=\"#not-to-bsl\">Files that can <b>NOT</b> be moved to the Boost Software License</a>\n"
 " <a href=\"#need-bsl-authors\">Authors we need to move to the Boost Software License</a>\n"
 "<a href=\"#copyright\">Copyright Holder Information</a>\n";
}
 "<a href=\"#depend\">File Dependency Information</a>\n"
 "";
// input Information:
os << "<a name=\inv (n)"></a><h2>Input Information</h2>\inv (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>>Licence Summary</h2>\n";
  while(i != j)
    // title:
      "<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>\n";
 }
 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 \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>\n";
    ++i2;
  }
  os << "</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 << "\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"</p>
"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>
 </copyright>
</articleinfo>
</article>
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
1
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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```
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP
#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif
#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif
#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type traits.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {
using boost::move_detail::is_same;
using boost::move detail::add const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move detail::remove reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move detail::add pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
```

```
using boost::move_detail::no_type;
using boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;
template<std::size_t S>
struct ls_zeros
 static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
template<>
struct ls_zeros<0>
 static const std::size_t value = 0;
};
template<>
struct ls zeros<1>
 static const std::size_t value = 0;
// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME) \
 template <typename T, typename DefaultType>
 struct boost_intrusive_default_type_ ## TNAME
  template <typename X>
  static char test(int, typename X::TNAME*);
  template <typename X>
  static int test(...);
  struct DefaultWrap { typedef DefaultType TNAME; };
  static const bool value = (1 == sizeof(test < T > (0, 0)));
  typedef typename
    ::boost::intrusive::detail::if_c
      <value, T, DefaultWrap>::type::TNAME type;
 };
 //
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL) \
```

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

```
\{ \setminus
 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> \setminus
 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
// (C) Copyright Ion Gaztanaga 2005-2013.
//
// Distributed under 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)
// See http://www.boost.org/libs/container for documentation.
//
#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#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
// (C) Copyright Ion Gaztanaga 2005-2012.
```

```
//
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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
#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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Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)
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10:09:19+0200)

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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">
<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="prev" href="intrinsics.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
</head>
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<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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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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  Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant,
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target=" top">http://www.boost.org/LICENSE 1 0.txt</a>)
  </div>
<hr>
<div class="spirit-nav">
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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
```

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]):
   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.
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  (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>
 The following is the overall license for the boost date_time
 library. This notice is found in all source files related to the
 library.
</para>
<para>
 Copyright © 2002 CrystalClear Software, Inc.
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<para>
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</para>
<!--hr / -->
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
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[/
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\_\_\_\_\_\_

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Boost.Geometry (aka GGL, Generic Geometry Library)

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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 {
     n =
-# 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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--- end ---

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<?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 $"</pre>
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
 <copyright>
  <year>1963</year> <year>1964der>Jane Doe
 </copyright>
 <copyright>
  <year>2018</year> <holder>Joe Blow, John Coe</holder>
 </copyright>
 <copyright>
  <year>1977</year> <year>1985</year> <holder>Someone else</holder>
 </copyright>
</articleinfo>
</article>
[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\!\!>\!\!\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 || (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/>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 << "</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>\n";
    ++i2;
  }
  os << "</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 << "</td>\n";
    ++ad;
  }
  os << "</table>\n";
 }
 // output file dependency information:
 //
 os << "<H2><a name=\"depend\"></a>File Dependency Information</H2><BLOCKQUOTE>\n";
 std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
```

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

```
if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
    break;
}
os << "\n";
++fi;
}
os << "</pre></BLOCKQUOTE>\n";
os << "</body></html>\n";
if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ".";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}
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This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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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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<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>-->
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]
[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]
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<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>
<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 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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// 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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```

```
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// 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_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_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_)
#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; };
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
```

```
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

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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

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# 1.11 chartist-js 0.11.0

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# 1.13 chartist-plugin-legend 0.6.1

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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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zlib http://www.gzip.org/zlib/zlib\_license.html

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krb4

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

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<signature of Ty Coon>, 1 April 1990
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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
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+ Copyright (C) Paul `Rusty' Russell
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  ** 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
```

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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```
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```

# All lines in this file are patterns, including the comment lines; this

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# the file name (including the path relative to the current directory,

# always starting with `./').

#

# Don't put empty lines into this file!

```
.gitignore
builds/unix/pkg.m4
docs/FTL.TXT
docs/GPLv2.TXT
include/freetype/internal/fthash.h
src/base/fthash.c
src/base/md5.c
src/base/md5.h
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
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
GNU GENERAL PUBLIC LICENSE
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```

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2006-Jan-27

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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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/\* 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 \setminus 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/}
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@enumerate 0

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You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

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

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

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

```
That's all there is to it!
```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>

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

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

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

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

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

id="manual.intro.status.license"></a>License</h2></div></div></div>

There are two licenses affecting GNU libstdc++: one for the code, and one for the documentation.

There is a license section in the FAQ regarding common <a class="link"

href="../faq.html#faq.license">questions</a>. If you have more

questions, ask the FSF or the <a class="link" href="http://gcc.gnu.org/lists.html" target="\_top">gcc mailing list</a>.

<div class="section"><div class="titlepage"><div><div><h3 class="title"><a

id="manual.intro.status.license.gpl"></a>The Code: GPL</h3></div></div>

The source code is distributed under the <a class="link" href="appendix\_gpl.html" title="AppendixD. GNU General Public License version 3">GNU General Public License version 3</a>,

```
with the addition under section 7 of an exception described in
   the <span class="quote"><span class="quote">GCC Runtime Library Exception, version 3.1</span></span>
   as follows (or see the file COPYING.RUNTIME):
  <div class="literallayout"><br/>
GCCRUNTIMELIBRARYEXCEPTION<br/>>br/>
<br/>>
Version3.1,31March2009<br/>>br/>
<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/>br/>
<br />
ThisGCCRuntimeLibraryException("Exception")isanadditional<br/>br/>
permissionundersection7oftheGNUGeneralPublicLicense,version<br/>br/>
3("GPLv3").Itappliestoagivenfile(the"RuntimeLibrary")that<br/>
bearsanoticeplacedbythecopyrightholderofthefilestatingthat<br/>br/>
thefileisgovernedbyGPLv3alongwiththisException.<br/>
<br/>>
WhenyouuseGCCtocompileaprogram,GCCmaycombineportionsof<br/><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 />
<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/>
modifications,governedbyversion3(oraspecifiedlaterversion)of<br/>br/>
theGNUGeneralPublicLicense(GPL)withtheoptionofusingany<br/><br/>>
subsequentversionspublishedbytheFSF.<br/>
<br/>
br />
<br/>hr />
"GPL-compatibleSoftware"issoftwarewhoseconditionsofpropagation,<br/>
modificationandusewouldpermitcombinationwithGCCinaccordwith<br/>br/>
thelicenseofGCC.<br/>
<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 />
```

```
The "Compilation Process" transforms code entirely represented in <br/> />
non-intermediatelanguagesdesignedforhuman-writtencode,and/orin<br/>br/>
JavaVirtualMachinebytecode,intoTargetCode.Thus,forexample,<br/>br/>
useofsourcecodegeneratorsandpreprocessorsneednotbeconsidered<br/>br/>
partoftheCompilationProcess,sincetheCompilationProcesscanbe<br/>br/>
understoodasstartingwiththeoutputofthegeneratorsor<br/>>br/>
preprocessors.<br/>
<br />
ACompilationProcessis"Eligible"ifitisdoneusingGCC,aloneor<br/>br/>
withotherGPL-compatiblesoftware, orifitisd one without using any <br/> tr />
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 />
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></r
   The documentation shipped with the library and made available over
   the web, excluding the pages generated from source comments, are
   copyrighted by the Free Software Foundation, and placed under the
   <a class="link" href="appendix_gfdl.html" title="AppendixE.GNU Free Documentation License"> GNU Free
Documentation
   License version 1.3</a>. There are no Front-Cover Texts, no
   Back-Cover Texts, and no Invariant Sections.
  For documentation generated by doxygen or other automated tools
   via processing source code comments and markup, the original source
   code license applies to the generated files. Thus, the doxygen
   documents are licensed <a class="link" href="appendix_gpl.html" title="AppendixD. GNU General Public
License version 3">GPL</a>.
  If you plan on making copies of the documentation, please let us know.
```

```
We can probably offer suggestions.
 width="40%" align="left"><a accesskey="p" href="status.html">Prev</a><td width="20%"
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>
<appendix xmlns="http://docbook.org/ns/docbook" version="5.0"
 xml:id="appendix.gpl-3.0"><info><title>
 <acronym>GNU</acronym> General Public License version 3
</title></info>
<?dbhtml filename="appendix gpl.html"?>
<para>
 Version 3, 29 June 2007
</para>
<para>
 Copyright 2007 Free Software Foundation, Inc.
 <link 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.
</para>
<bridgehead xml:id="gpl-3-preamble" renderas="sect1">
 Preamble
</bridgehead>
<para>
 The <acronym>GNU</acronym> General Public License is a free, copyleft
 license for software and other kinds of works.
</para>
<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
 <acronym>GNU</acronym> General Public License is intended to guarantee your
 freedom to share and change all versions of a programto make sure it
 remains free software for all its users. We, the Free Software Foundation,
 use the <acronym>GNU</acronym> General Public License for most of our
 software; it applies also to any other work released this way by its
 authors. You can apply it to your programs, too.
</para>
<para>
 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 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
</para>
<br/>
<br/>
digehead>
TERMS AND CONDITIONS
</bridgehead>
<bridgehead 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.

```
</para>
<bri><bri>dgehead xml:id="SourceCode" renderas="sect1">
1. Source Code.
</bridgehead>
<para></para>
```

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></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>
<bri>dgehead 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

**Open Source Used In Virtual Digital Content Manager 13** 

</para> <para>

restricting circumvention of such measures.

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 measures.

```
</para>
<br/>
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defined a sml:id="Conveying Verbatim" renderas="sect1">
<br/>
4. Conveying Verbatim Copies.
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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>
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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.

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<br/>
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fidgehead xml:id="ConveyingModified" renderas="sect1">
<br/>
5. Conveying Modified Source Versions.<br/>
</bridgehead>
<para></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:

The work must carry prominent notices stating that you modified it, and giving a relevant date.

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</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

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notices.
</para>
</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>
<listitem>
<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.

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</para>
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<br/>
<br/>
dehead xml:id="ConveyingNonSource" renderas="sect1">
6. Conveying Non-Source Forms.
</br/>
</bridgehead>
<para>
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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:

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</para>
<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">
    stitem>
    <para></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>
</listitem>
<listitem>
<para>
```

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid 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.

```
</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.

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

</para>

<para>

A User Product is either (1) a consumer product, which means any tangible personal property which is normally used for

uses represent the only significant mode of use of the product.

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

</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), and must require no special password or key for unpacking, reading or copying.

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/bridgehead xml:id="AdditionalTerms" renderas="sect1">
<br/>
/bridgehead>
<br/>
<para>
```

Additional permissions are terms that supplement the terms of this License by making exceptions from one or more of its conditions. 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:

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

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
  </para>
 </listitem>
 stitem>
  <para>
   Limiting the use for publicity purposes of names of licensors or
   authors of the material; or
  </para>
 </listitem>
 stitem>
  <para>
   Declining to grant rights under trademark law for use of some trade
   names, trademarks, or service marks; or
  </para>
 </listitem>
 listitem>
  <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>
 All other non-permissive additional terms are considered further
restrictions within the meaning of section 10. If the Program as
 you received it, or any part of it, contains a notice stating that it is
 governed by this License along with a term that is a further restriction,
 you may remove that term. If a license document contains a further
 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
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@end enumerate

@iftex

@heading END OF TERMS AND CONDITIONS

@end iftex

@ifinfo

@center END OF TERMS AND CONDITIONS

@end ifinfo

@page

@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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.}
Copyright (C) @var{year} @var{name of author}

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

@end smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

```
@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!

#!/usr/bin/python

#

# Copyright (C) 2013 Free Software Foundation, Inc.

#

# This script is free software; you can redistribute it and/or modify

# 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:

#

# Copyright XXXX-YYYY Free Software Foundation, Inc.

44

# 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',
        'ltmain.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')
```

```
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 \geq 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.
        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',
```

```
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:
```

self.o\_this\_year)

```
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 True
    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',
         1)
    self.skip_dirs |= set ([
         # Contains automatically-generated sources.
         'html',
         # The testsuite data files shouldn't be changed.
         'data',
         # Contains imported images
         'images',
         1)
    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()

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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
Copyright (C) 1998, 2001, 2002, 2005 Free Software Foundation, Inc.
```

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package java.security;

```
import gnu.java.lang.CPStringBuilder;
import java.io.Serializable;
/**
* 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(getName());

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

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

/* 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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\* m4/ax\_func\_which\_gethostbyname\_r.m4

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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 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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When a "work that uses the Library" uses material from a header file

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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.

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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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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.

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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.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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(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.

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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## 1.30 glibc 2.17 :260.el7

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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.

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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

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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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<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

<a href="https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html">https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html</a>, 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
       * 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.
# The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
```

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

+unix/bsd

```
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

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

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>
@c The GNU Lesser General Public License.
@center Version 2.1, February 1999

@c This file is intended to be included within another document,@c hence no sectioning command or @node.

## @display

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## @enumerate 0

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#### @enumerate a

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@end enumerate

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<html xmlns="http://www.w3.org/TR/xhtml1/DTD/xhtml1" xml:lang="en" lang="en">

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<head>
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<meta name="generator" content="Docutils 0.13.1: http://docutils.sourceforge.net/" />
<title>GraphicsMagick Copyrights and Licenses</title>
k rel="stylesheet" href="docutils-articles.css" type="text/css" />
</head>
<body>
<div class="banner">
<img src="images/gm-107x76.png" alt="GraphicMagick logo" width="107" height="76" />
<span class="title">GraphicsMagick</span>
<form action="http://www.google.com/search">
<input type="hidden" name="domains" value="www.graphicsmagick.org" />
<input type="hidden" name="sitesearch" value="www.graphicsmagick.org" />
 <span class="nowrap"><input type="text" name="q" size="25" maxlength="255" />&nbsp;<input type="submit"</pre>
name="sa" value="Search" /></span>
</form>
</div>
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## 1.33 gst-plugins-base 1.6.4

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### 1.34 gst-plugins-good 1.6.4

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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.

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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.

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### 1.36 gst-template 0.0 :10.0

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/\*

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### 1.41 jemalloc 3.6.0 :1.el7

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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

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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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lib/libgss/g\_init\_sec\_context.c

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lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
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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
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uts/common/gssapi/include/mechglueP.h
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# checks for violations of the coding standards related to copyright
# and license statements in source code comments.
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'/^* ([^ ]^*)( - .^*)? /^*/, 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'/^*.^*?^*/^*, ", 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)
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.. toctree::
 :hidden:
 copyright.rst
.. include:: notice.rst
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   HAS SOURCE: true
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    <a href="mitK5features.html" title="MIT Kerberos features"
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   <a href="copyright.html" title="Copyright"
      accesskey="N">next</a> |
   <a href="genindex.html" title="General Index"
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   <a href="search.html" title="Enter search criteria"
      accesskey="S">Search</a> |
 <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License">License</a>
information">feedback</a>
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class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span

class="n">g glue</span><span class="o">.</span><span class="n">c</span> <span class="n">lib</span><span class="0">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_imp\_name</span><span class="o">.</span><span class="n">c</span> <span class="n">lib</span><span class="0">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g imp 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 init 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 initialize</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 inquire 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 inquire 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\_inquire\_names</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\_process\_context</span><span class="o">.</span><span class="n">c</span> <span class="n">lib</span><span class="0">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_rel\_buffer</span><span class="o">.</span><span class="n">c</span> <span class="n">lib</span><span class="0">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_rel\_cred</span><span class="o">.</span><span class="n">c</span> <span class="n">lib</span><span class="0">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g rel 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 rel oid set</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\_seal</span><span class="o">.</span><span class="n">c</span> <span class="n">lib</span><span class="0">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_sign</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\_store\_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

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class="n">g_unseal</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="0">/</span><span class="n">gssapi</span><span
class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span
class="n">g_userok</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="0">/</span><span class="n">gssapi</span><span
class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span
class="n">g utils</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 verify</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">gssd pname to uid</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">mglueP</span><span class="o">.</span><span class="n">h</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">oid_ops</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">spnego</span><span class="o">/</span><span
class="n">gssapiP_spnego</span><span class="o">.</span><span class="n">h</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span</pre>
class="o">/</span><span class="n">spnego</span><span class="o">/</span><span
class="n">spnego_mech</span><span class="o">.</span><span class="n">c</span>
</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="o">/</span><span class="n">iprop_hdr</span><span class="o">.</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</pre>
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
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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```

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### .. parsed-literal::

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:

.. 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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Author: Ruben Rodriguez <ruben@trisquel.info>

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--- db-5.3.21/src/crypto/mersenne/mt19937db.c.licensefix
+++ db-5.3.21/src/crypto/mersenne/mt19937db.c
@@ -16,16 +16,27 @@
/* Coded by Takuji Nishimura, considering the suggestions by */
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-/* This library is free software under the Artistic license:
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-/* For the verification of the code, its output sequence file
-/* mt19937int.out is attached (2001/4/2)
                                                        */
/* Copyright (C) 1997, 1999 Makoto Matsumoto and Takuji Nishimura. */
/* Any feedback is very welcome. For any question, comments,
                                                                  */
/* see http://www.math.keio.ac.jp/matumoto/emt.html or email
                                                                  */
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/* REFERENCE
/* M. Matsumoto and T. Nishimura,
/* "Mersenne Twister: A 623-Dimensionally Equidistributed Uniform */
/*_
* $Id$
*/
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## 1.57 libSM 1.2.2 :2.el7

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### 1.61 libXau 1.0.8 :2.1.el7

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## 1.62 libxcb 1.13 :1.el7

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# 1.64 lm\_sensors 3.4.0 :6.20160601gitf9185e5.el7

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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.

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# 1.66 Luigi FEC N/A

### 1.67 makeself 2.2.0

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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.

Font Metrics for the 14 PDF Core Fonts

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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 <a href="http://partners.adobe.com/public/developer/font/index.html">http://partners.adobe.com/public/developer/font/index.html</a>>.

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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

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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

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

# Reporting Problems

# make install.man

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 Copyright (C) 2002-2005 Maxim Shemanarev (McSeem)

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C.B. Barber

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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/

*

* Copyright 2005, 2014 jQuery Foundation, Inc. and other contributors

* Released under the MIT license

* http://jquery.org/license
```

\* 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-pulf.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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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.

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#!/usr/bin/env fontforge
i=1
while ( i<\$argc )</pre>

```
Open($argv[i])
Generate($argv[i]:r + ".ttf")
i = i+1
endloop
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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?

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

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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.

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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

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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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and

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Computation and Visualization of Geometric Structures (The Geometry Center) University of Minnesota

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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/

* Copyright 2005, 2014 jQuery Foundation, Inc. and other contributors

* Released under the MIT license

* http://jquery.org/license

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

*/
```

Comment found in jQuery UI source code:

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

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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

# 1.70.1 Available under license:

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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.

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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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- 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.
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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.

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Version 2.1, February 1999

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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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- 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.
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```
/* crypto/aes/aes wrap.c */
```

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- \* Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
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### THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel Email local part: ph10 Email domain: cam.ac.uk

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## 1.90 perl 5.16.3 :293.el7

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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 \nModule-Build mailing list at <module-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
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
```

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.

Content-Transfer-Encoding: 8bit

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
hv.c
        | 6+++++
        | 7 ++++---
sv.c
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 => 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 {
   htie::explosive = 0;
+ tie %^H, hhtie;
+ \Phi\{foo\} = bar;
   htie::explosive = 1;
    }
+ { 1; }
+}, 'hint-hash copying does not leak');
1.8.1.4
```

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

## 1.91 pistache 1.0:0.0

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### 1.92 poco 1.6.1 :3.el7

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History of the software ====================================

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

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1.3 thru	1.5.2   1.2	199	95-1999	CNRI	
1.6	1.5.2	2000	CNR	I   no	
2.0	1.6	2000	BeOp	en.com   no	
1.6.1	1.6	2001	CNR	I   no	
2.1	2.0+1.6	.1   200	1   PS	F   no	 <del> </del>
2.0.1	2.0+1.6	5.1   200	)1   PS	SF   yes	
2.1.1	2.1+2.0	0.1   200	)1   PS	SF   yes	
2.2	2.1.1	2001	PSF	yes	
2.1.2	2.1.1	2002	PSF	yes	'   <del> </del>
2.1.3	2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes	   <del> </del>
2.2.2	2.2.1	2002	PSF	yes	
2.2.3	2.2.2	2002-	-2003   Pa	SF   ye	
2.3	2.2.2	2002-	2003   PS	SF   yes	
2.3.1	2.3	2002-	2003   PS	SF   yes	s
2.3.2	2.3.1	2003	PSF	yes	+
2.3.3	2.3.2	2003	PSF	yes	+
	2.3.3	·			

	2.3.4				+    +
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	1
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	
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Mersenne Twister

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

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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

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

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Cookie management

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**Execution tracing** 

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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zlib

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

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

	Release	Deriv	ed	Year		Own	er	GPL-
from						com	patibl	e? (1)
	0.9.0 thru	1.2		1991-1	995	CW	I	yes
	1.3 thru 1.	5.2 1.2		1995-	1999	CN	IRI	yes
	1.6	1.5.2	2	000	CN	RI	no	
	2.0	1.6	20	000	BeC	Open.	com 1	10
	1.6.1	1.6	2	001	CN	RI	yes	(2)
	2.1	2.0+1.6	.1	2001	F	SF	no	
	2.0.1	2.0+1.6	5.1	2001	]	PSF	ye	es
	2.1.1	2.1+2.0	).1	2001	]	PSF	ye	es
	2.2	2.1.1	2	001	PS	F	yes	
	2.1.2	2.1.1	2	2002	PS	F	yes	
	2.1.3	2.1.2	2	2002	PS	F	yes	
	2.2.1	2.2	2	002	PS	F	yes	

2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-20	003 PSF	yes
2.3.1	2.3	2002-20	003 PSF	yes
2.3.2	2.3.1	2002-2	003 PSF	yes
2.3.3	2.3.2	2002-2	003 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
2.6.5	2.6.4	2010	PSF	yes
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from			compatibl	e? (1)	
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1.3 thru 1	.5.2 1.2	199	95-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no	
2.0	1.6	2000	BeOpe	en.com	no
1.6.1	1.6	2001	CNRI	yes	s (2)
2.1	2.0+1.6	5.1 200	1 PSF	no	)
2.0.1	2.0+1.0	6.1 200	)1 PSI	F y	es
2.1.1	2.1+2.0	0.1 200	)1 PSI	F y	es
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	
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# 1.103 pytz 2015.7

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# 1.106 repoze.what-pylons 1.0

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# 1.108 repoze.what.pluggins.sql 1.0

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# 1.109 repoze.who 1.0.18

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# 1.110 repoze.who-friendlyform 1.0.1

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# 1.112 repoze.who.plugins.sa 1.0rc2

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## 1.115 Sacco-Vanzetti 2009-04-28

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## 1.118 six 1.8.0

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## 1.119 soxr 0.1.2 :1.el7

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lib/csharp/src/Server/TServer.cs

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lib/csharp/src/Thrift.csproj

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lib/csharp/src/TProcessor.cs

lib/csharp/src/Transport/TServerSocket.cs

lib/csharp/src/Transport/TServerTransport.cs

lib/csharp/src/Transport/TSocket.cs

lib/csharp/src/Transport/TStreamTransport.cs

lib/csharp/src/Transport/TTransport.cs

lib/csharp/src/Transport/TTransportException.cs

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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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
  Device Boot Start
                          End Blocks Id System
ts dev 1
                  2048
                           4095
                                    1024 83 Linux
-----
Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
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
                                 Blocks Id System
                          End
__ts_dev__1
                  2048
                           4095
                                    1024 83 Linux
                  4096
                          20479
                                    8192 a5 FreeBSD
__ts_dev__2
Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img
---layout-----
```

Command (m for help): BSD disklabel command (m for help): 4 partitions: fstype [fsize bsize cpg] start end size 4096 0 0 c: 20479 16384 unused d: 16065 0 0 0 16064 unused 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): BSD disklabel command (m for help): 4 partitions: start end size fstype [fsize bsize cpg] 4096 6144 2049 4.2BSD  $0 \quad 0 \quad 0$ a: 4096 20479 c: 16384 unused 0 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):

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

5 4.1BSD

9 4.4LFS

d boot

0 unused

```
1 swap6 Eighth Editiona unknowne ADOS2 Version 67 4.2BSDb HPFSf HFS3 Version 78 MS-DOSc ISO-966010 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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version = "1.7"
version info = (1,7,0,"rc-2")
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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 file.)

Started by [Manfred Stienstra](http://www.dwerg.net/). Continued and maintained by [Yuri Takhteyev](http://www.freewisdom.org) and [Waylan Limberg](http://achinghead.com/).

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## 1.132 webob 0.9.8

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<brarobin, 2009-07-08>

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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:

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# 1.139 zlib 1.2.7 :18.el7

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# 1.140 zope.interface 3.5.2

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# 1.141 zope.sqlalchemy 0.4

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- \* Laurence Rowe creator and main developer
- \* Martijn Faassen updated to work with SQLAlchemy 0.5

Also thanks to Michael Bayer for help with integration in SQLAlchemy and of course SQLAlchemy itself, as well as the many Zope developers who worked on Zope/SQLAlchemy integration projects.

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