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Text Part Number: 78EE117C99-206071487
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1.2.1 Available under license:

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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);
}
}
}
}
}
}catch (std::runtime_error & e)
{
    os << "<!DOCTYPE HTML PUBLIC ""-//W3C//DTD HTML 4.0 Transitional//EN"">\n"<html><head><title>Boost Licence Dependency Information</title></head><body>
"<H1>Boost Licence Dependency Information</H1>
<H2>Contents</h2>
<pre><a href="#input">Input Information</a>
"if(!m_bsl_summary_mode)
        os << "<a href="#summary">Licence Summary</a>
        os << "<a href="#details">Licence Details</a>
    while(i != j)
        {
            // title:
            os << " <A href=""#"">make_link_target(licenses.first[i-&gt;first].license_name)</n            """"<"">licenses.first[i-&gt;first].license_name << "</a><\n";
++i;
        }

    os << "<a href="#files">Files with no recognised license</a>
        "<a href="#authors">Files with no recognised copyright holder</a>
    if(!m_bsl_summary_mode)
        {
            os << "Moving to the Boost Software License...
            "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
            "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
            "<a href="#not-to-bsl">Files that can <b>NOT</b> be moved to the Boost Software License</a>"
"<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a><br>
"<a href="#copyright">Copyright Holder Information</a><br>
}

os <<
"<a href="#depend">File Dependency Information</a><br>
"</pre>

// input Information:
//
// os << "<a name="input"></a><h2>Input Information</h2>
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><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>
while(i != j)
{
    // title:
os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    // Copyright holders:
os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" make_link_target(licenses.first[i->first].license_name)>(see details)</a>";
os << "</P></BLOCKQUOTE>\n";
    ++i;
}
//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j)
{
    // title:
os << "<H3><A name="" make_link_target(licenses.first[i->first].license_name)"">" << 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";
        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:
</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>
   ++m;
}
os << "</P></BLOCKQUOTE>
;
}
else
{
   os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).
</P>

   os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).
</P>

   ++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>
";

The following " << m_unknown_licenses.size() << " files had no recognisable license
information:
</P>

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>
   ++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>
";

The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:
</P>

i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
   os << split_path(m_boost_path, *i2) << "<br>
   ++i2;
}
Files that can be automatically converted to the Boost Software License

The following  files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:

Files that could be converted to the Boost Software License

The following  files could be manually converted to the Boost Software License, but have not yet been:

Files that can NOT be converted to the Boost Software License
"<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>

<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) << "\n";
    ++i2;
}

os << "</p></BLOCKQUOTE>"

//
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>\n"
"<p>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.</p>

<BLOCKQUOTE><P>

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "\n"));
os << "</p></BLOCKQUOTE>"

//
// output a table of copyright information:
//
os << "<h2><a name="copyright"></a>Copyright Holder Information</h2><table border="1"\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><td>" << ad->first << "</td><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></tr>\n";
    ++ad;
}
os << "</table>\n"

//
// output file dependency information:
//
os << "<h2><a name="depend"></a>File Dependency Information</h2><BLOCKQUOTE><pre>";
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><br>";
}
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;
  logfile << "<P>For brevity, only files not under the BSL are shown</P><br>";
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 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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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

template <typename X>
struct f { using type = X; };

template <int i>
struct t { };

using vector = <mpl::vector((1..input_size).to_a.map { [n] "t<#{n}>" })) %>
;

using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

int main() { }

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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>

template <int i>
struct t { };
using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>") }) %>

int main() { }
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#include <boost/mpl/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>

template <typename State, typename X>
struct f { using type = X; };

struct state { };

template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>") }) %>

using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;

int main() { }

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IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
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}
}

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<div id="projectnumber">1.2.0</div>
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onmouseout="return searchBox.OnSearchSelectHide()" alt=""/>
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onblur="searchBox.OnSearchFieldFocus(false)"
onkeyup="searchBox.OnSearchFieldChange(event)"/>
</span><span class="right">
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</span>
</div>
</td>
</tr>
</tbody>
</table>
</div>
<div id="projectbrief">Your standard library for metaprogramming</div>
</div>
</div>
</div>
</div>
</body>
</html>
Adapters for Boost.MPL containers. 

Table: memberdecls

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classes</td>
<td></td>
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</table>

Adapters for Boost.MPL containers. 

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>External</td>
<td></td>
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#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):

    #!/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):

    var group__group_ext_mpl =
    [
        ["integral_c", "structboost_1_1mpl_1_1integral__c.html", null ],
        ["list", "structboost_1_1mpl_1_1list.html", null ],
        ["vector", "structboost_1_1mpl_1_1vector.html", null ]
    ];
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from datetime import datetime
from itertools import groupby
import re
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def authors(filename):

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        ["integral_c", "structboost_1_1mpl_1_1integral__c.html", null ],
        ["list", "structboost_1_1mpl_1_1list.html", null ],
        ["vector", "structboost_1_1mpl_1_1vector.html", null ]
    ];
log = run(["git", 'log', '--follow',
    '--date=short', '--format=%aN%x09%ad', filename],
    universal_newlines=True)
for line in log.splitlines():
    author, date = line.split('t')
    if author != 'fix-copyright.py':
        yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '[0]' if start.year == end.year else '[0]-' + '1'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield key, line
        return map(itemgetter(1), sorted(f()))

    def fix_copyright(filename):
        # Find copyright block in original file
        prefix = set()
        names = []
        lines = []
        with open(filename, 'r') as f:
            content = list(f)
            for i, line in enumerate(content[:15]):
                m = re.match(r'^(?P<prefix>W*)\((c\)? copyright\(c\)?)\d{4}(\d{4})?\s+(?P<name>.+?)\s*$', line, re.IGNORECASE)
                if m:
                    d = m.groupdict()
                    prefix.add(d['prefix'])
                    lines.append(i)
                    names.append(d['name'].strip())
        if len(prefix) != 1:
            print 'Not found:', filename
            return
        prefix = list(prefix)[0]

        print filename
        new = iter(new_copyright(filename, names))
        with open(filename, 'w') as f:
            for i, line in enumerate(content):
if i in lines:
    for repl in new:
        print >>f, prefix + repl
else:
    print >>f, line,
pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

for f in all_files():
    fix_copyright(f)

Boost.Geometry (aka GGL, Generic Geometry Library)

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<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--[if !IE]><!-->
<ulink url="../../../index.htm">
<imagedata align="left" format="GIF"
    fileref="../../../boost.png"
    alt="C++ Boost" />
</ulink>-->
<!(-->
<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>
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[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an [Integral Constant type].

Please note that these types no longer inherit from `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]
All the value based traits in this library conform to MPL's requirements for an Integral Constant type.</p>
<p>Please note that these types no longer inherit from <code class="computeroutput"><span class="identifier">mpl</span></code> or <code class="computeroutput"><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.

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Distributed under the Boost Software License, Version 1.0. (See accompanying file LICENSE_1_0.txt or copy at <a href="http://www.boost.org/LICENSE_1_0.txt" target="_top">http://www.boost.org/LICENSE_1_0.txt</a>)
</div></td>
</tr></table>
#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 <cstdlib>

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;

}  //namespace container_detail {  
}  //namespace container {  
}  //namespace boost {  

template <class FirstType>
struct select1st
{
    typedef FirstType type;

    template<class T>
    const type& operator()(const T& x) const
    { return x.first;  
    }

    template<class T>
    type& operator()(T& x)
    { return const_cast<type&>(x.first);  
    }
};  

} //namespace container_detail {
} //namespace container {
} //namespace boost {
#include <boost/container/detail/config_end.hpp>

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

// ifndef BOOST_CONFIG_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<
    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<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;
};
#if defined(BOOST_HAS_PRAGMA_ONCE)
#pragma once
#endif

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

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::enable_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;

} // namespace detail
} // namespace intrusive
} // namespace boost
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));  
};


#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, 
FUNC_NAME) \

template <typename U, typename Signature> \
class TRAITS_NAME \
{
  
  private:
  template<Signature> struct helper;
  template<typename T> \
  static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*);
  template<typename T> static ::boost::intrusive::detail::no_type test(...);
  public:
  static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type);
};

//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
template <typename Type> \
struct TRAITS_NAME \
{

  struct BaseMixin 
  {
   
    void FUNC_NAME();
  };

  struct Base : public Type, public BaseMixin { Base(); };

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

};

//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) \


//namespace detail

//namespace intrusive

//namespace boost

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

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
1.3 cjose 0.6.1

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1.5 dnsjava 2.1.8

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1.7 FastScroll 2.0.1

1.8 Firebase Messaging 17.3.4

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g dsp_name.c
lib/gssapi/mechglue/g dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g glue.c
lib/gssapi/mechglue/g imp_name.c
lib/gssapi/mechglue/g imp sec_context.c
lib/gssapi/mechglue/g init sec context.c
lib/gssapi/mechglue/g initialize.c
lib/gssapi/mechglue/g inquire_context.c
lib/gssapi/mechglue/g inquire cred.c
lib/gssapi/mechglue/g inquire_names.c
lib/gssapi/mechglue/g process context.c
lib/gssapi/mechglue/g rel_buffer.c
lib/gssapi/mechglue/g rel cred.c
lib/gssapi/mechglue/g rel name.c
lib/gssapi/mechglue/g rel oid set.c
lib/gssapi/mechglue/g seal.c
lib/gssapi/mechglue/g sign.c
lib/gssapi/mechglue/g store cred.c
lib/gssapi/mechglue/g unseal.c
lib/gssapi/mechglue/g userok.c
lib/gssapi/mechglue/g utils.c
lib/gssapi/mechglue/g verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
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
kprop/kpropd_rpc.c
kprop/kproplog.c

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        COLLAPSE_INDEX: false,
        FILE_SUFFIX: '.html',
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```
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<kadmin/server/ipropd_svc.c>
<lib/kdb/iprop.c>
<lib/kdb/kdb_convert.c>
<lib/kdb/kdb_log.c>
<lib/krb5/error_tables/krb5_err.et>
<kprop/kpropd_rpc.c>
<kprop/kproplog.c>
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `\`src/lib/gssapi\``, including the following files:

.. 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
    kprop/kpropd_rpc.c
    kprop/kproplog.c

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 *
 * import os
 * import sys
 * import re
 *
 * def warn(fname, ln, msg):
 *     print '%s: %d: %s' % (fname, ln + 1, msg)
 *
 * def indicates_license(line):
 *     return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line
 *
 * # Check a comment for boilerplate violations. Return true if the comment is a license statement.
 * def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
 *     text_seen = False
 *     is_license = False
 *     for line in comment:
 *         if not is_license and indicates_license(line):
is_license = True
if text_seen:
    warn(fname, ln, 'License begins after first line of comment')
elif code_seen:
    warn(fname, ln, 'License after code')
elif nonlicense_seen:
    warn(fname, ln, 'License after non-license comments')
break
# DB2 licenses start with '/*- ' and we don't want to change them.
if line != '' and line != '-':
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if ' -*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* \([^\s]*\) \(- .*)? */\*', 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)

1.14 kotlin-stdlib-jdk7 1.3.31

1.15 libcURL 7.65.0
1.15.1 Available under license :

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==============

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

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One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

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(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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1.16 libjpeg 9b

1.17 libz 1.2.8

1.17.1 Available under license:

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1.18 OpenSSL 1.0.2r:1.0.2r

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