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1.2 @types/async 2.0.49

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1.3 @types/graphql 0.12.6

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1.4 @types/zen-observable 0.5.4

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1.5 alphanumeric-sort-dart 0.1.1

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1.6 annotations 3.0.1

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1.7 annotations 13.0

1.8 antlr4-runtime 4.7.1

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1.14 apiguardian-api 1.0.0

1.15 apollo-cache 1.1.12

1.16 apollo-cache-inmemory 1.2.5

1.17 apollo-client 2.3.5

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1.18 apollo-link 1.2.2

1.19 apollo-link-dedup 1.0.9

1.20 apollo-link-error 1.1.0

1.21 apollo-link-http 1.5.4

1.22 apollo-link-http-common 0.2.4

1.23 apollo-utilities 1.0.16

1.24 archive 2.0.0

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1.25 async-dart 1.12.0

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1.26 bcprov-jdk15on 1.60

1.27 Bean Validation API 1.1.0.Final

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1.28 boost 1.69.0

1.28.1 Available under license :

```
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
/*
*
* Copyright (c) 2003 Dr John Maddock
* Use, modification and distribution is subject to the
* Boost Software License, Version 1.0. (See accompanying file
* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE\_1\_0.txt)
*
*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};
```

```

};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=\"\" << (p.root / p.file).string() << \">\" << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.";
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\">\n"
        "<html>\n"
        "<head>\n"
        "<title>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os <<

```

```

</title>\n"
</head>\n"
<body>\n"
<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
os <<
    </H1>\n"
    <H2>Contents</h2>\n"
    <pre><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"
    "</pre>";

//
// 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><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "^[:,blank:]*#[:,blank:]*define[:,blank:]+BOOST_VERSION[:,blank:]+(\\d+)");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
<< "</P>\n";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
    os << "<a name=\"summary\"></a><h2>Licence Summary</h2>\n";
    while(i != j)
    {
        // title:
        os <<
            "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size()
            << " authors and " << i->second.files.size()
            << " files <a href=\"#" << make_link_target(licenses.first[i->first].license_name) << "\">(see details)</a>";
        os << "</P></BLOCKQUOTE>\n";
    }
}

```

```

    ++i;
  }
}
//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name=\"details\"></a><h2>Licence Details</h2>\n";
while(i != j)
{
  // title:
  os <<
    "<H3><A name=\"" << make_link_target(licenses.first[i->first].license_name)
    << "\"></a>" << licenses.first[i->first].license_name << "</H3>\n";
  // license text:
  os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
  if(!m_bsl_summary_mode || (license_index >= 3))
  {
    // Copyright holders:
    os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:</P>\n<BLOCKQUOTE><P>";
    std::set<std::string>::const_iterator x, y;
    x = i->second.authors.begin();
    y = i->second.authors.end();
    while(x != y)
    {
      os << *x << "<BR>\n";
      ++x;
    }
    os << "</P></BLOCKQUOTE>\n";
    // Files using this license:
    os << "<P>This license applies to the following " << i->second.files.size() << "
files:</P>\n<BLOCKQUOTE><P>";
    std::set<fs::path, path_less>::const_iterator m, n;
    m = i->second.files.begin();
    n = i->second.files.end();
    while(m != n)
    {
      os << split_path(m_boost_path, *m) << "<br>\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";
    ++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<table border='1'\n <tr>\n <td><pre>"
    << i->second.first << "</pre></td>\n <td><pre>"
    << 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'\n">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'\n">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 << "</p></BLOCKQUOTE>";
//
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name='need-bsl-authors'\n">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 `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><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>\n";
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
```

```

        ie = m_converted_to_bsl.end();
while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
            {
                os << "<I>(Circular dependency!)</I>";
                break; // circular dependency!!!
            }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
    os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>\n";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();

```

```
    msg += ".";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

}
```

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```
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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(agg@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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```
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-->
```

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

  <title><no title> &#8212; Boost.HigherOrderFunctions 0.6 documentation</title>

  <link rel="stylesheet" href="_static/boostbook.css" type="text/css" />
  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />

  <script type="text/javascript">
    var DOCUMENTATION_OPTIONS = {
      URL_ROOT:    './',
      VERSION:    '0.6',
```

```

COLLAPSE_INDEX: false,
FILE_SUFFIX: '.html',
HAS_SOURCE: true,
SOURCELINK_SUFFIX: '.txt'
};
</script>
<script type="text/javascript" src="_static/jquery.js"></script>
<script type="text/javascript" src="_static/underscore.js"></script>
<script type="text/javascript" src="_static/doctools.js"></script>
<link rel="index" title="Index" href="genindex.html" />
<link rel="search" title="Search" href="search.html" />
</head>
<body role="document">
<table cellpadding="2" width="100%"><tr>
<td valign="top"></td>
</tr></table>

<div class="spirit-nav">
<a accesskey="p" ></a>
<a accesskey="u" href="doc/index.html"></a>
<a accesskey="h" href="doc/index.html"></a>
<a accesskey="n" ></a>
</div>

<div class="document">
<div class="chapter">
<div class="body" role="main">

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```


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```
</div>
</div>
<div class="clearer"></div>
</div>
<div class="footer" role="contentinfo">
<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
<td align="left"></td>
<td align="right"><div class="copyright-footer">
    &#169; Copyright 2016, Paul Fultz II.

    Created using <a href="http://sphinx-doc.org/">Sphinx</a> 1.5.6.
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    <a href="http://www.boost.org/LICENSE_1_0.txt"
target="_top">http://www.boost.org/LICENSE_1_0.txt</a>)
    </p>
</div></td>
</tr></table>
</div>
</body>
</html>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<title>License &#8212; Boost.HigherOrderFunctions 0.6 documentation</title>

<link rel="stylesheet" href="../../_static/boostbook.css" type="text/css" />
<link rel="stylesheet" href="../../_static/pygments.css" type="text/css" />

<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
    URL_ROOT:    '../../',
    VERSION:    '0.6',
    COLLAPSE_INDEX: false,
    FILE_SUFFIX: '.html',
    HAS_SOURCE:  true,
    SOURCELINK_SUFFIX: '.txt'
};
```

```

</script>
<script type="text/javascript" src="../../_static/jquery.js"></script>
<script type="text/javascript" src="../../_static/underscore.js"></script>
<script type="text/javascript" src="../../_static/doctools.js"></script>
<link rel="index" title="Index" href="../../genindex.html" />
<link rel="search" title="Search" href="../../search.html" />
<link rel="prev" title="Acknowledgements" href="acknowledgements.html" />
</head>
<body role="document">
<table cellpadding="2" width="100%"><tr>
<td valign="top"></td>
</tr></table>

<div class="spirit-nav">
<a accesskey="p" href="acknowledgements.html"></a>
<a accesskey="u" href="../../index.html"></a>
<a accesskey="h" href="../../index.html"></a>
<a accesskey="n" ></a>
</div>

<div class="document">
<div class="chapter">
<div class="body" role="main">

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--><div class="section" id="license">
<h1>License<a class="headerlink" href="#license" title="Permalink to this headline"></a></h1>
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```

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</div>

```
</div>
</div>
<div class="clearer"></div>
</div>
<div class="footer" role="contentinfo">
<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
<td align="left"></td>
<td align="right"><div class="copyright-footer">
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    <a href="http://www.boost.org/LICENSE_1_0.txt"
target="_top">http://www.boost.org/LICENSE_1_0.txt</a>
    </p>
</div></td>
</tr></table>
</div>
</body>
</html>
```

http_parser.c is based on src/http/nginx_http_parse.c from NGINX copyright
Igor Sysoev.

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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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```

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-->

<!-- boost-no-inspect -->

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

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

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

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

```

<head>
<meta http-equiv="Content-Type" content="text/xhtml;charset=UTF-8"/>
<meta http-equiv="X-UA-Compatible" content="IE=9"/>
<meta name="generator" content="Doxygen 1.8.11"/>
<title>Boost.Hana: Boost.MPL adapters</title>
<link href="tabs.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="jquery.js"></script>
<script type="text/javascript" src="dynsections.js"></script>
<link href="navtree.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="resize.js"></script>
<script type="text/javascript" src="navtreedata.js"></script>
<script type="text/javascript" src="navtree.js"></script>
<script type="text/javascript">
$(document).ready(initResizable);
$(window).load(resizeHeight);
</script>
<link href="search/search.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="search/searchdata.js"></script>
<script type="text/javascript" src="search/search.js"></script>
<script type="text/javascript">
$(document).ready(function() { init_search(); });
</script>
<script type="text/x-mathjax-config">
MathJax.Hub.Config({
  extensions: ["tex2jax.js"],
  jax: ["input/TeX","output/HTML-CSS"],
});
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MathJax.Hub.Config({
  "HTML-CSS": {
    linebreaks: {
      automatic: true,
      width: "75% container"
    }
  }
});
</script><script type="text/javascript" src="https://cdn.mathjax.org/mathjax/latest/MathJax.js"></script>
<link href="doxygen.css" rel="stylesheet" type="text/css" />
<!-- Additional javascript for drawing charts. -->
<script type="text/javascript" src="highcharts.js"></script>
<script type="text/javascript" src="highcharts-data.js"></script>
<script type="text/javascript" src="highcharts-exporting.js"></script>
<script type="text/javascript" src="chart.js"></script>
<script type="text/javascript" src="hana.js"></script>
</head>
<body>

```

```

<div id="top"><!-- do not remove this div, it is closed by doxygen! -->
<div id="titlearea">
<table cellspacing="0" cellpadding="0">
<tbody>
<tr style="height: 56px;">
<td id="projectlogo"></td>
<td style="padding-left: 0.5em;">
<div id="projectname">Boost.Hana
&#160;<span id="projectnumber">1.5.0</span>
</div>
<div id="projectbrief">Your standard library for metaprogramming</div>
</td>
<td> <div id="MSearchBox" class="MSearchBoxInactive">
<span class="left">

<input type="text" id="MSearchField" value="Search" accesskey="S"
onfocus="searchBox.OnSearchFieldFocus(true)"
onblur="searchBox.OnSearchFieldFocus(false)"
onkeyup="searchBox.OnSearchFieldChange(event)"/>
</span><span class="right">
<a id="MSearchClose" href="javascript:searchBox.CloseResultsWindow()"></a>
</span>
</div>
</td>
</tr>
</tbody>
</table>
</div>
<!-- end header part -->
<!-- Generated by Doxygen 1.8.11 -->
<script type="text/javascript">
var searchBox = new SearchBox("searchBox", "search",false,'Search');
</script>
</div><!-- top -->
<div id="side-nav" class="ui-resizable side-nav-resizable">
<div id="nav-tree">
<div id="nav-tree-contents">
<div id="nav-sync" class="sync"></div>
</div>
</div>
<div id="splitbar" style="-moz-user-select:none;"
class="ui-resizable-handle">
</div>
</div>

```

```

<script type="text/javascript">
$(document).ready(function(){initNavTree('group__group-ext-mpl.html',");});
</script>
<div id="doc-content">
<!-- window showing the filter options -->
<div id="MSearchSelectWindow"
  onmouseover="return searchBox.OnSearchSelectShow()"
  onmouseout="return searchBox.OnSearchSelectHide()"
  onkeydown="return searchBox.OnSearchSelectKey(event)">
</div>

<!-- iframe showing the search results (closed by default) -->
<div id="MSearchResultsWindow">
<iframe src="javascript:void(0)" frameborder="0"
  name="MSearchResults" id="MSearchResults">
</iframe>
</div>

<div class="header">
  <div class="summary">
<a href="#nested-classes">Classes</a> </div>
  <div class="headertitle">
<div class="title">Boost.MPL adapters<div class="ingroups"><a class="el" href="group__group-ext.html">External adapters</a></div></div> </div>
</div><!--header-->
<div class="contents">
<a name="details" id="details"></a><h2 class="groupheader">Description</h2>
<p>Adapters for Boost.MPL containers. </p>
<table class="memberdecls">
<tr class="heading"><td colspan="2"><h2 class="groupheader"><a name="nested-classes"></a>
Classes</h2></td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1integral_c.html">boost::mpl::integral_c< T, v ></a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for IntegralConstants
from the Boost.MPL. <a href="structboost_1_1mpl_1_1integral_c.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2">&#160;</td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el" href="structboost_1_1mpl_1_1list.html">boost::mpl::list< T
></a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for Boost.MPL lists.
<a href="structboost_1_1mpl_1_1list.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2">&#160;</td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1vector.html">boost::mpl::vector< T ></a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for Boost.MPL
vectors. <a href="structboost_1_1mpl_1_1vector.html#details">More...</a><br /></td></tr>

```



```

<tr class="separator:"><td class="memSeparator" colspan="2">&#160;</td></tr>
</table>
</div><!-- contents -->
</div><!-- doc-content -->
<!--
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-->
<!-- boost-no-inspect -->
<!-- HTML footer for doxygen 1.8.9.1-->
<!-- start footer part -->
<div id="nav-path" class="navpath"><!-- id is needed for treeview function! -->
<ul>
</ul>
</div>
</body>
</html>

```

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

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

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

```

<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
  <copyright>
    <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
  </copyright>
  <copyright>
    <year>2018</year> <holder>Joe Blow, John Coe</holder>
  </copyright>
  <copyright>
    <year>1977</year> <year>1985</year> <holder>Someone else</holder>
  </copyright>
</articleinfo>
</article>
#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
              '--date=short', '--format=%aN%x09%ad', filename],
             universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('\t')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

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

```

```

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
    for i, line in enumerate(content[:15]):
        m = re.match(r'^(?P<prefix>\W*)(\((c\))?\s*?copyright\s*(\((c\))?)\s+\d{4}(\s*-\s*\d{4})?\s+(?P<name>.+?)\s*$',
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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The default copyright note for C++ source files reads:

```
// Boost.Geometry (aka GGL, Generic Geometry Library)
```

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```

```
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```
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```

```
// Parts of Boost.Geometry are redesigned from Geodan's Geographic Library
```

```
// (geolib/GGL), copyright (c) 1995-2010 Geodan, Amsterdam, the Netherlands.
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Examples:

- adapted geometry types e.g. array, Boost.Polygon
- implemented file-format e.g. WKB
- implemented specific strategy or algorithm e.g. intersections

- 3) Examples -> might take sole copyright
- 4) Tests -> might take sole copyright
- 5) Docs -> might take sole copyright
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-->

<section id="date_time.license">

<title>Boost Date-Time Library License</title>

<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>

<!--

<ulink url="../../index.htm">

<imagedata align="left"

format="GIF"

fileref="../../boost.png"

alt="C++ Boost" />

</ulink>-->

<!--hr /-->

<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>

```

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</para>
<!--hr / -->
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
&#169; 2000-2002
</section>

```

```

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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](http://www.boost.org/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]
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href=".../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.79.1">
<link rel="home" href="../index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">
<link rel="up" href="../index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">
<link rel="prev" href="intrinsic.html" title="Support for Compiler Intrinsic">
<link rel="next" href="examples.html" title="Examples">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
<table cellpadding="2" width="100%"><tr>

```

```

<td valign="top"></td>
<td align="center"><a href="../../../../index.html">Home</a></td>
<td align="center"><a href="../../../../libs/libraries.htm">Libraries</a></td>
<td align="center"><a href="http://www.boost.org/users/people.html">People</a></td>
<td align="center"><a href="http://www.boost.org/users/faq.html">FAQ</a></td>
<td align="center"><a href="../../../../more/index.htm">More</a></td>
</tr></table>
<hr>
<div class="spirit-nav">
<a accesskey="p" href="intrinsic.html"></a><a
accesskey="u" href="../../index.html"></a><a accesskey="h"
href="../../index.html"></a><a accesskey="n"
href="examples.html"></a>
</div>
<div class="section">
<div class="titlepage"><div><div><h2 class="title" style="clear: both">
<a name="boost_typedtraits.mpl"></a><a class="link" href="mpl.html" title="MPL Interoperability">MPL
Interoperability</a>
</h2></div></div></div>
<p>
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>.
</p>
<p>
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.
</p>
</div>
<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
<td align="left"></td>
<td align="right"><div class="copyright-footer">Copyright &#169; 2000, 2011 Adobe Systems Inc, David
Abrahams,
Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant,
Jesse Jones, Mat Marcus, Itay Maman, John Maddock, Alexander Nasonov, Thorsten
Ottosen, Roman Perepelitsa, Robert Ramey, Jeremy Siek, Robert Stewart and Steven
Watanabe<p>
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target="_top">http://www.boost.org/LICENSE_1_0.txt</a>)
</p>
</div></td>

```



```
</tr></table>
<hr>
<div class="spirit-nav">
<a accesskey="p" href="intrinsic.html"></a><a
accesskey="u" href="../index.html"></a><a accesskey="h"
href="../index.html"></a><a accesskey="n"
href="examples.html"></a>
</div>
</body>
</html>
```

```
[/
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```
]
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```
////
```

```
[#mpl]
# MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:
```

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link `../../../libs/mpl[MPL]` sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.
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 //

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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

#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 dtl {

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 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); }
};

template <class T, class=void>
struct is_transparent
{
    static const bool value = false;
};

template <class T>
struct is_transparent<T, typename T::is_transparent>
{
    static const bool value = true;
};

template <typename C, typename K, typename R>
struct enable_if_transparent
    : boost::move_detail::enable_if_c<dtl::is_transparent<C>::value, R>
{
};

} //namespace dtl {
} //namespace container {

```

```

} //namespace boost {

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

#ifdef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
////////////////////////////////////
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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

#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;
};

} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#ifdef BOOST_INTERPROCESS_DETAIL_MPL_HPP
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//
// See http://www.boost.org/libs/intrusive for documentation.
//
////////////////////////////////////

#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> \
    struct boost_intrusive_has_type_ ## TNAME \
    { \
        template <typename X> \
        static char test(int, typename X::TNAME*); \
        \
        template <typename X> \
        static int test(...); \
        \
        static const bool value = (1 == sizeof(test<T>(0, 0))); \
    }; \
    \
    template <typename T, typename DefaultType> \
    struct boost_intrusive_default_type_ ## TNAME \
    { \
        struct DefaultWrap { typedef DefaultType TNAME; }; \
        \
        typedef typename \
            ::boost::intrusive::detail::if_c \
            < boost_intrusive_has_type_ ## TNAME<T>::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_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME) \
    INSTANTIATION_NS_PREFIX
    boost_intrusive_has_type_ ## TNAME< T >::value
//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)\
template <typename T, typename DefaultType>
struct boost_intrusive_eval_default_type_ ## TNAME
{
    template <typename X>
    static char test(int, typename X::TNAME*);

    template <typename X>
    static int test(...);

    struct DefaultWrap
    { typedef typename DefaultType::type TNAME; };

    static const bool value = (1 == sizeof(test<T>(0, 0)));

    typedef typename
        ::boost::intrusive::detail::eval_if_c
        < value
        , ::boost::intrusive::detail::identity<T>
        , ::boost::intrusive::detail::identity<DefaultWrap>
        >::type::TNAME type;
};
//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX
    boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type
//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX,
TYPEDEF_TO_FIND) \
template <class T>
struct TRAITS_PREFIX##_bool
{
    template<bool Add>
    struct two_or_three { yes_type _[2 + Add]; };
    template <class U> static yes_type test(...);
    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);
};

```

```

    static const std::size_t value = sizeof(test<T>(0));\
};\
\
template <class T>\
struct TRAITS_PREFIX##_bool_is_true\
{\
    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\
};\
//

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

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

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME,\
FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) \
\
\
template <typename Type, class> \

```

```

struct TRAITS_NAME \
  : public TRAITS_NAME##_ignore_signature<Type> \
  {};\
//

} //namespace detail
} //namespace intrusive
} //namespace boost

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

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

```

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

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```
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--- end ---

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```
<!DOCTYPE html>
```

```
<html>
```

```
<head></head>
```

```
<body>
```

```
<h3>
```

```
    Copyright Test
```

```
</h3>
```

```
<p class="copyright">
```

```
    1963, 1964, 1965 Jane Doe
```

```
</p>
```

```
<p class="copyright">
```

```
    2018 Joe Blow, John Coe
```

```
</p>
```

```
<p class="copyright">
```

```
    1977, 1985 Someone else
```

```
</p>
```

```
</body>
```



```

</html>
[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?

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

```

```

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

  <title>License &#8212; Boost.HigherOrderFunctions 0.6 documentation</title>

  <link rel="stylesheet" href="../../_static/boostbook.css" type="text/css" />
  <link rel="stylesheet" href="../../_static/pygments.css" type="text/css" />

  <script type="text/javascript">
    var DOCUMENTATION_OPTIONS = {
      URL_ROOT:    './..',
      VERSION:     '0.6',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE:  true,
      SOURCELINK_SUFFIX: '.txt'
    };
  </script>
  <script type="text/javascript" src="../../_static/jquery.js"></script>
  <script type="text/javascript" src="../../_static/underscore.js"></script>
  <script type="text/javascript" src="../../_static/doctools.js"></script>
  <link rel="index" title="Index" href="../../genindex.html" />
  <link rel="search" title="Search" href="../../search.html" />
  <link rel="prev" title="Acknowledgements" href="acknowledgements.html" />
</head>
<body role="document">
<table cellpadding="2" width="100%"><tr>
<td valign="top"></td>
</tr></table>

<div class="spirit-nav">

```

```
<a accesskey="p" href="acknowledgements.html"></a>
<a accesskey="u" href="../index.html"></a>
<a accesskey="h" href="../index.html"></a>
<a accesskey="n" ></a>
</div>
```

```
<div class="document">
<div class="chapter">
  <div class="body" role="main">
```

```
<!-- Copyright 2018 Paul Fultz II
```

```
  Distributed under the Boost Software License, Version 1.0.
```

```
  (http://www.boost.org/LICENSE\_1\_0.txt)
```

```
--><div class="section" id="license">
```

```
<h1>License<a class="headerlink" href="#license" title="Permalink to this headline"></a></h1>
```

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```

```
</div>
```

```
</div>
```

```
</div>
```

```
<div class="clearer"></div>
```

```
</div>
```

```
<div class="footer" role="contentinfo">
```

```
<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
```

```
<td align="left"></td>
```

```
<td align="right"><div class="copyright-footer">
```

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```

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    Created using <a href="http://sphinx-doc.org/">Sphinx</a> 1.5.6.
    <p>Distributed under the Boost Software License, Version 1.0.
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    <a href="http://www.boost.org/LICENSE_1_0.txt"
target="_top">http://www.boost.org/LICENSE_1_0.txt</a>)
    </p>
  </div></td>
</tr></table>
</div>
</body>
</html>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

    <title><no title> &#8212; Boost.HigherOrderFunctions 0.6 documentation</title>

    <link rel="stylesheet" href="_static/boostbook.css" type="text/css" />
    <link rel="stylesheet" href="_static/pygments.css" type="text/css" />

    <script type="text/javascript">
      var DOCUMENTATION_OPTIONS = {
        URL_ROOT:    './',
        VERSION:    '0.6',
        COLLAPSE_INDEX: false,
        FILE_SUFFIX: '.html',
        HAS_SOURCE:  true,
        SOURCELINK_SUFFIX: '.txt'
      };
    </script>
    <script type="text/javascript" src="_static/jquery.js"></script>
    <script type="text/javascript" src="_static/underscore.js"></script>
    <script type="text/javascript" src="_static/doctools.js"></script>
    <link rel="index" title="Index" href="genindex.html" />
    <link rel="search" title="Search" href="search.html" />
  </head>
  <body role="document">
    <table cellpadding="2" width="100%"><tr>
      <td valign="top"></td>
    </tr></table>

    <div class="spirit-nav">
      <a accesskey="p" ></a>

```

```
<a accesskey="u" href="doc/index.html"></a>
<a accesskey="h" href="doc/index.html"></a>
<a accesskey="n" ></a>
</div>
```

```
<div class="document">
<div class="chapter">
  <div class="body" role="main">
```

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```

```
</div>
</div>
<div class="clearer"></div>
</div>
<div class="footer" role="contentinfo">
<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
<td align="left"></td>
<td align="right"><div class="copyright-footer">
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```

```
Created using <a href="http://sphinx-doc.org/">Sphinx</a> 1.5.6.
```

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```

```
(See accompanying file <code class="filename">LICENSE_1_0.txt</code> or copy at
```

```
<a href="http://www.boost.org/LICENSE_1_0.txt"
```

```

target="_top">http://www.boost.org/LICENSE_1_0.txt</a>
    </p>
</div></td>
</tr></table>
</div>
</body>
</html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../../../../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.79.1">
<link rel="home" href="../../index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">
<link rel="up" href="../../index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">
<link rel="prev" href="intrinsic.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
<table cellpadding="2" width="100%"><tr>
<td valign="top"></td>
<td align="center"><a href="../../index.html">Home</a></td>
<td align="center"><a href="../../libs/libraries.htm">Libraries</a></td>
<td align="center"><a href="http://www.boost.org/users/people.html">People</a></td>
<td align="center"><a href="http://www.boost.org/users/faq.html">FAQ</a></td>
<td align="center"><a href="../../more/index.htm">More</a></td>
</tr></table>
<hr>
<div class="spirit-nav">
<a accesskey="p" href="intrinsic.html"></a><a
accesskey="u" href="../../index.html"></a><a accesskey="h"
href="../../index.html"></a><a accesskey="n"
href="examples.html"></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></div>
<p>
    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>.
</p>
<p>
    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_</code> etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from class="computeroutput">integral_constant</code> to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.`

```
</p>
</div>
<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
<td align="left"></td>
<td align="right"><div class="copyright-footer">Copyright &#169; 2000, 2011 Adobe Systems Inc, David
Abrahams,
    Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant,
    Jesse Jones, Mat Marcus, Itay Maman, John Maddock, Alexander Nasonov, Thorsten
    Ottosen, Roman Perepelitsa, Robert Ramey, Jeremy Siek, Robert Stewart and Steven
    Watanabe<p>
        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>
    </p>
</div></td>
</tr></table>
<hr>
<div class="spirit-nav">
<a accesskey="p" href="intrinsic.html"></a><a
accesskey="u" href="..index.html"></a><a accesskey="h"
href="..index.html"></a><a accesskey="n"
href="examples.html"></a>
</div>
</body>
</html>
```

////

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-->

<!-- boost-no-inspect -->

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

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

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

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

<head>

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

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

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

<title>Boost.Hana: Boost.MPL adapters</title>

<link href="tabs.css" rel="stylesheet" type="text/css"/>

<script type="text/javascript" src="jquery.js"></script>

<script type="text/javascript" src="dynsections.js"></script>

<link href="navtree.css" rel="stylesheet" type="text/css"/>

<script type="text/javascript" src="resize.js"></script>

<script type="text/javascript" src="navtreedata.js"></script>

<script type="text/javascript" src="navtree.js"></script>

<script type="text/javascript">

\$(document).ready(initResizable);

\$(window).load(resizeHeight);

</script>

<link href="search/search.css" rel="stylesheet" type="text/css"/>

<script type="text/javascript" src="search/searchdata.js"></script>

<script type="text/javascript" src="search/search.js"></script>

<script type="text/javascript">

\$(document).ready(function() { init_search(); });

</script>

<script type="text/x-mathjax-config">

MathJax.Hub.Config({

 extensions: ["tex2jax.js"],

 jax: ["input/TeX", "output/HTML-CSS"],

});

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MathJax.Hub.Config({

 "HTML-CSS": {

 linebreaks: {

 automatic: true,

 width: "75% container"

 }

 }

```

});
</script><script type="text/javascript" src="https://cdn.mathjax.org/mathjax/latest/MathJax.js"></script>
<link href="doxygen.css" rel="stylesheet" type="text/css" />
<!-- Additional javascript for drawing charts. -->
<script type="text/javascript" src="highcharts.js"></script>
<script type="text/javascript" src="highcharts-data.js"></script>
<script type="text/javascript" src="highcharts-exporting.js"></script>
<script type="text/javascript" src="chart.js"></script>
<script type="text/javascript" src="hana.js"></script>
</head>
<body>
<div id="top"><!-- do not remove this div, it is closed by doxygen! -->
<div id="titlearea">
<table cellspacing="0" cellpadding="0">
<tbody>
<tr style="height: 56px;">
<td id="projectlogo"></td>
<td style="padding-left: 0.5em;">
<div id="projectname">Boost.Hana
&#160;<span id="projectnumber">1.5.0</span>
</div>
<div id="projectbrief">Your standard library for metaprogramming</div>
</td>
<td>
<div id="MSearchBox" class="MSearchBoxInactive">
<span class="left">

<input type="text" id="MSearchField" value="Search" accesskey="S"
onfocus="searchBox.OnSearchFieldFocus(true)"
onblur="searchBox.OnSearchFieldFocus(false)"
onkeyup="searchBox.OnSearchFieldChange(event)"/>
</span><span class="right">
<a id="MSearchClose" href="javascript:searchBox.CloseResultsWindow()"></a>
</span>
</div>
</td>
</tr>
</tbody>
</table>
</div>
<!-- end header part -->
<!-- Generated by Doxygen 1.8.11 -->
<script type="text/javascript">
var searchBox = new SearchBox("searchBox", "search",false,'Search');
</script>

```



```

</div><!-- top -->
<div id="side-nav" class="ui-resizable side-nav-resizable">
  <div id="nav-tree">
    <div id="nav-tree-contents">
      <div id="nav-sync" class="sync"></div>
    </div>
  </div>
  <div id="splitbar" style="-moz-user-select:none;"
    class="ui-resizable-handle">
  </div>
</div>
<script type="text/javascript">
$(document).ready(function(){initNavTree('group__group-ext-mpl.html','');});
</script>
<div id="doc-content">
<!-- window showing the filter options -->
<div id="MSearchSelectWindow"
  onmouseover="return searchBox.OnSearchSelectShow()"
  onmouseout="return searchBox.OnSearchSelectHide()"
  onkeydown="return searchBox.OnSearchSelectKey(event)">
</div>

<!-- iframe showing the search results (closed by default) -->
<div id="MSearchResultsWindow">
<iframe src="javascript:void(0)" frameborder="0"
  name="MSearchResults" id="MSearchResults">
</iframe>
</div>

<div class="header">
  <div class="summary">
<a href="#nested-classes">Classes</a> </div>
  <div class="headertitle">
<div class="title">Boost.MPL adapters<div class="ingroups"><a class="el" href="group__group-
ext.html">External adapters</a></div></div> </div>
</div><!--header-->
<div class="contents">
<a name="details" id="details"></a><h2 class="groupheader">Description</h2>
<p>Adapters for Boost.MPL containers. </p>
<table class="memberdecls">
<tr class="heading"><td colspan="2"><h2 class="groupheader"><a name="nested-classes"></a>
Classes</h2></td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1integral__c.html">boost::mpl::integral_c< T, v ></a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for IntegralConstants
from the Boost.MPL. <a href="structboost_1_1mpl_1_1integral__c.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2">&#160;</td></tr>

```

```

<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el" href="structboost_1_1mpl_1_1list.html">boost::mpl::list< T
></a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for Boost.MPL lists.
<a href="structboost_1_1mpl_1_1list.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2">&#160;</td></tr>
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class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1vector.html">boost::mpl::vector< T ></a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for Boost.MPL
vectors. <a href="structboost_1_1mpl_1_1vector.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2">&#160;</td></tr>
</table>
</div><!-- contents -->
</div><!-- doc-content -->
<!--
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-->
<!-- boost-no-inspect -->
<!-- HTML footer for doxygen 1.8.9.1-->
<!-- start footer part -->
<div id="nav-path" class="navpath"><!-- id is needed for treeview function! -->
<ul>
</ul>
</div>
</body>
</html>

```

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[/=====

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Copyright (c) 2008-2013 Bruno Lalande, Paris, France.

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Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)
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Gottfried Ganauge (Gottfried.Ganssaue -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssaue)
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Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
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Hartmut Kaiser (hartmut.kaiser -at- gmail.com)
Herve Bronnimann (hbr -at- poly.edu)
Herv Brnnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)
Howard Hinnant (hinnant -at- twcnv.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)
Jaakko Jrv (jajarvi -at- osl.iu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
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Kevlin Henney (kevin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bjnnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
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Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
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Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)
Robert Ramey (ramey@www.rrsd.com)
Roland Richter (roland -at- flll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)
Roland Schwarz (roland.schwarz -at- chello.at)
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)
Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
Stefan Seefeld (seefeld -at- sympatico.ca)
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Vladimir Prus (ghost@cs.msu.su)
William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)
Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200)
Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---

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1.30 boost.process 0.5

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1.31 byte-buddy 1.7.9

1.32 byte-buddy-agent 1.7.9

1.33 cache-api 1.0.0

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JSR-000107 JCACHE 2.9 Public Review - Updated Specification
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<https://raw.githubusercontent.com/jsr107/jsr107spec/master/LICENSE.txt>

1.34 charmed-dart 0.4.0+1

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1.35 circular-json 0.5.5

1.35.1 Available under license :

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1.36 com.h2database:h2 1.4.197

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```

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```

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```

```
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```

```
-->
```

```
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
```

```
<head><meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
```

```
<meta name="viewport" content="width=device-width, initial-scale=1" />
```

```

<title>
License
</title>
<link rel="stylesheet" type="text/css" href="stylesheet.css" />
<!-- [search] { -->
<script type="text/javascript" src="navigation.js"></script>
</head><body onload="frameMe();">
<table class="content"><tr class="content"><td class="content"><div class="contentDiv">
<!-- } -->

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1.48 commons-validator 1.6

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1.49 crypto 2.0.2

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1.50 csv-dart 2.0.1

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1.51 dart-lang sdk 1.21.1

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JUnit - in third_party/junit
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1.52 dart-lzma 0.3.0

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1.53 dart-xml 2.4.3

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1.54 dartdap 0.2.2

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1.55 dateformat 3.0.2

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1.56 deprecated-decorator 0.1.6

1.57 dsbroker 1.1.0

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1.58 dslink 0.20.1

1.58.1 Available under license :

```
package org.dsa.iot.dslink.node;

/**
 * Handles various permission levels
 * @author Samuel Grenier
 */
public enum Permission {
    NONE("none"),
    READ("read"),
    WRITE("write"),
    CONFIG("config"),
    NEVER("never");

    private final String jsonName;

    Permission(String jsonName) {
        this.jsonName = jsonName;
    }

    /**
     * @return JSON ready name of the permission
     */
    public String getJsonName() {
        return jsonName;
    }

    /**
     * Converts a string permission received from an endpoint back into a
     * permission enumeration.
     *
     * @param perm Permission string to convert.
     * @return Converted string into an enumeration.
     */
    public static Permission toEnum(String perm) {
        switch (perm) {
            case "none":
                return NONE;
            case "read":
                return READ;
            case "write":
                return WRITE;
            case "config":
```

```
        return CONFIG;
    case "never":
        return NEVER;
    default:
        throw new RuntimeException("Unhandled type");
    }
}
}
```

1.59 dslink-dart-dql

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1.60 dslink-dart-system

93cfbb439824087ad7e2422f5ba60d7db73ec2a

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1.61 dslink-java-jdbc 0.2.1

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1.62 dsllink-alarm 1.9.0

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1.63 duosecurity-dart 0.0.1

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1.64 fast-json-stable-stringify 2.0.0

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1.65 git 1.8.3.1 :13.e17

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1.66 glob 1.0.5

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1.67 go 1.11.4

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```

```
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```

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1.68 go-crypto

9419663f5a44be8b34ca85f08abc5fe1be11f8a3

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1.69 google-maps-dart 2.0.7

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1.70 graphql 0.13.2

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1.71 graphql-anywhere 4.1.14

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1.72 graphql-java 8.0

1.73 graphql-tag 2.9.2

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1.74 graphql-tools 3.0.5

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1.75 guava 20.0

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1.76 h2 1.4.195

1.77 Hamcrest Core 1.3

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1.78 hibernate-jpa-2.1-api 1.0.0.Final

1.78.1 Available under license :

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <meta name="author" content="Mike Milinkovich, January 25, 2008"/>
    <meta name="keywords" content="edl, legal, license"/>
    <link href="//fonts.googleapis.com/css?family=Open+Sans:400,700,300,600,100" rel="stylesheet"
type="text/css"/>
    <link rel="shortcut icon" href="/eclipse.org-common/themes/solstice/public/images/favicon.ico"/>
    <title>Eclipse Distribution License</title>
    <link rel="stylesheet" href="/eclipse.org-common/themes/solstice/public/stylesheets/styles.min.css"/>
    <meta property="og:description" content="Eclipse is probably best known as a Java IDE, but it is more: it is an IDE
framework, a tools framework, an open source project, a community, an eco-system, and a foundation."/>
    <meta property="og:image" content="https://www.eclipse.org/eclipse.org-
common/themes/solstice/public/images/logo/eclipse-200x200.png"/>
    <meta property="og:title" content="Eclipse Distribution License"/>
    <meta property="og:image:width" content="200"/>
    <meta property="og:image:height" content="200"/>
    <meta itemprop="name" content="Eclipse Distribution License"/>
    <meta itemprop="description" content="Eclipse is probably best known as a Java IDE, but it is more: it is an IDE
framework, a tools framework, an open source project, a community, an eco-system, and a foundation."/>
    <meta itemprop="image" content="https://www.eclipse.org/eclipse.org-
common/themes/solstice/public/images/logo/eclipse-400x400.png"/>
    <meta name="twitter:site" content="@EclipseFdn"/>
    <meta name="twitter:card" content="summary"/>
    <meta name="twitter:title" content="Eclipse Distribution License"/>
    <meta name="twitter:url" content="http://www.eclipse.org/org/documents/edl-v10.php"/>
    <meta name="twitter:description" content="Eclipse is probably best known as a Java IDE, but it is more: it is an
IDE framework, a tools framework, an open source project, a community, an eco-system, and a foundation."/>
    <meta name="twitter:image" content="https://www.eclipse.org/eclipse.org-
```

common/themes/solstice/public/images/logo/eclipse-400x400.png"/>

```
<script> var eclipse_org_common =
{"settings":{"cookies_class":{"name":"eclipse_settings","enabled":1}}}</script> </head>
<body id="body_solstice">
<a class="sr-only" href="#content">Skip to main content</a>
<div class="clearfix toolbar-container-wrapper">
<div class="container">
<div class="text-right toolbar-row row hidden-print">
<div class="col-md-24 row-toolbar-col">
<ul class="list-inline">
<li><a href="https://accounts.eclipse.org/user/register"><i class="fa fa-user fa-fw"></i> Create
account</a></li>
<li><a
href="https://accounts.eclipse.org/user/login/?takemeback=http%3A%2F%2Fwww.eclipse.org%2Forg%2Fdocumen
ts%2Fedl-v10.php"><i class="fa fa-sign-in fa-fw"></i> Log in</a></li>

</ul>
</div>
</div>
</div>
</div>
</div><header role="banner" id="header-wrapper">
<div class="container">
<div class="row" id="header-row">
<div class="hidden-xs col-sm-8 col-md-6 col-lg-5" id="header-left">
<div class="wrapper-logo-default"><a href="http://www.eclipse.org/"></a></div>
</div> <div class="col-sm-10 col-md-8 col-lg-5 hidden-print hidden-xs pull-right" id="header-right">
<div class="row"><div class="col-md-24">
<div id="custom-search-form" class="reset-box-sizing">
<script>
(function() {
var cx = '011805775785170369411:p3ec0igo0qq';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
'/cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
<gcse:searchbox-only gname="main" resultsUrl="https://www.eclipse.org/home/search.php"></gcse:searchbox-
only>
</div></div></div>
<div id="btn-call-for-action"><a href="//www.eclipse.org/downloads/" class="btn btn-huge btn-warning"><i
class="fa fa-download"></i> Download</a></div>
```

```

</div> <div class="col-sm-14 col-md-16 col-lg-19 reset" id="main-menu-wrapper">
<div class="navbar yamm" id="main-menu">
  <div id="navbar-collapse-1" class="navbar-collapse collapse">
    <ul class="nav navbar-nav">
      <li class="visible-thin"><a href="http://www.eclipse.org/downloads/"
target="_self">Download</a></li><li><a href="http://www.eclipse.org/users/" target="_self">Getting
Started</a></li><li><a href="http://www.eclipse.org/membership/" target="_self">Members</a></li><li><a
href="http://www.eclipse.org/projects/" target="_self">Projects</a></li>      <li class="dropdown visible-
xs"><a href="#" data-toggle="dropdown" class="dropdown-toggle">Community <b class="caret"></b></a><ul
class="dropdown-menu"><li><a href="http://marketplace.eclipse.org">Marketplace</a></li><li><a
href="http://events.eclipse.org">Events</a></li><li><a href="http://www.planeteclipse.org">Planet
Eclipse</a></li><li><a href="http://www.eclipse.org/community/eclipse_newsletter/">Newsletter</a></li><li><a
href="https://www.youtube.com/user/EclipseFdn">Videos</a></li></ul></li><li class="dropdown visible-xs"><a
href="#" data-toggle="dropdown" class="dropdown-toggle">Participate <b class="caret"></b></a><ul
class="dropdown-menu"><li><a href="https://bugs.eclipse.org/bugs/">Report a Bug</a></li><li><a
href="http://www.eclipse.org/forums/">Forums</a></li><li><a href="http://www.eclipse.org/mail/">Mailing
Lists</a></li><li><a href="https://wiki.eclipse.org/">Wiki</a></li><li><a
href="https://wiki.eclipse.org/IRC">IRC</a></li><li><a href="http://www.eclipse.org/contribute/">How to
Contribute</a></li></ul></li><li class="dropdown visible-xs"><a href="#" data-toggle="dropdown"
class="dropdown-toggle">Working Groups <b class="caret"></b></a><ul class="dropdown-menu"><li><a
href="http://iot.eclipse.org">Internet of Things</a></li><li><a
href="http://locationtech.org">LocationTech</a></li><li><a href="http://lts.eclipse.org">Long-Term
Support</a></li><li><a href="http://polarsys.org">PolarSys</a></li><li><a
href="http://science.eclipse.org">Science</a></li><li><a
href="http://www.openmdm.org">OpenMDM</a></li></ul></li>      <!-- More -->
      <li class="dropdown eclipse-more hidden-xs">
        <a data-toggle="dropdown" class="dropdown-toggle">More<b class="caret"></b></a>
        <ul class="dropdown-menu">
          <li>
            <!-- Content container to add padding -->
            <div class="yamm-content">
              <div class="row">
                <ul class="col-sm-8 list-unstyled"><li><p><strong>Community</strong></p></li><li><a
href="http://marketplace.eclipse.org">Marketplace</a></li><li><a
href="http://events.eclipse.org">Events</a></li><li><a href="http://www.planeteclipse.org">Planet
Eclipse</a></li><li><a href="http://www.eclipse.org/community/eclipse_newsletter/">Newsletter</a></li><li><a
href="https://www.youtube.com/user/EclipseFdn">Videos</a></li></ul><ul class="col-sm-8 list-
unstyled"><li><p><strong>Participate</strong></p></li><li><a href="https://bugs.eclipse.org/bugs/">Report a
Bug</a></li><li><a href="http://www.eclipse.org/forums/">Forums</a></li><li><a
href="http://www.eclipse.org/mail/">Mailing Lists</a></li><li><a
href="https://wiki.eclipse.org/">Wiki</a></li><li><a href="https://wiki.eclipse.org/IRC">IRC</a></li><li><a
href="http://www.eclipse.org/contribute/">How to Contribute</a></li></ul><ul class="col-sm-8 list-
unstyled"><li><p><strong>Working Groups</strong></p></li><li><a href="http://iot.eclipse.org">Internet of
Things</a></li><li><a href="http://locationtech.org">LocationTech</a></li><li><a
href="http://lts.eclipse.org">Long-Term Support</a></li><li><a
href="http://polarsys.org">PolarSys</a></li><li><a href="http://science.eclipse.org">Science</a></li><li><a
href="http://www.openmdm.org">OpenMDM</a></li></ul>      </div>
          </li>
        </ul>
      </li>
    </ul>
  </div>
</div>

```

```

        </li>
      </ul>
    </li>
  </ul>
</div>
<div class="navbar-header">
  <button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#navbar-collapse-1">
  <span class="sr-only">Toggle navigation</span>
  <span class="icon-bar"></span>
  <span class="icon-bar"></span>
  <span class="icon-bar"></span>
  <span class="icon-bar"></span>
  </button>
  <div class="wrapper-logo-mobile"><a class="navbar-brand visible-xs" href="http://www.eclipse.org/"></a></div>  </div>
</div>
</div>
  </div>
</div>
</div>
</div>
</header>
<section class="hidden-print default-breadcrumbs" id="breadcrumb">
  <div class="container">
    <h3 class="sr-only">Breadcrumbs</h3>
    <div class="row">
      <div class="col-sm-16 padding-left-30"><ol class="breadcrumb"><li><a
href="http://www.eclipse.org/">Home</a></li><li><a href="http://www.eclipse.org/org">About
Us</a></li><li><a href="http://www.eclipse.org/org/documents">Governance Documents</a></li><li
class="active">Eclipse Distribution License</li></ol></div>
      <div class="col-sm-8 margin-top-15"></div>
    </div>
  </div>
</section> <!-- /#breadcrumb --><main class="no-promo">
<div class="novaContent container" id="novaContent">
  <!-- nav -->
<aside id="leftcol" class="col-md-4">
  <ul id="leftnav" class="ul-left-nav fa-ul hidden-print">

    <li class="separator">
      <a class="separator" href="/org/">
        About Us      </a>
    </li>

    <li>

```

```
<i class="fa fa-angle-double-right orange fa-fw"></i>
<a href="/org/foundation/reports/annual_report.php" target="_self">
  Annual Report    </a>
</li>
```

```
<li>
  <i class="fa fa-angle-double-right orange fa-fw"></i>
  <a href="/org/foundation/" target="_self">
    Foundation    </a>
</li>
```

```
<li>
  <i class="fa fa-angle-double-right orange fa-fw"></i>
  <a href="/org/documents/" target="_self">
    Governance    </a>
</li>
```

```
<li>
  <i class="fa fa-angle-double-right orange fa-fw"></i>
  <a href="/legal/" target="_self">
    Legal Resources    </a>
</li>
```

```
<li>
  <i class="fa fa-angle-double-right orange fa-fw"></i>
  <a href="/org/foundation/contact.php" target="_self">
    Contact Us    </a>
</li>
```

```
</ul>
</aside>
```

```
<div id="midcolumn">
```

```
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```

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<li><a href="http://www.eclipse.org/org/foundation/contact.php">Contact Us</a></li>
<li><a href="http://www.eclipse.org/donate">Donate</a></li>
    <li><a href="http://www.eclipse.org/org/documents/">Governance</a></li>
    <li><a href="http://www.eclipse.org/artwork/">Logo and Artwork</a></li>
    <li><a href="http://www.eclipse.org/org/foundation/directors.php">Board of Directors</a></li>
</ul> </section>
<section class="col-sm-offset-1 col-xs-11 col-sm-7 col-md-6 col-md-offset-0 hidden-print" id="footer-legal">
    <h2 class="section-title">Legal</h2>
<ul class="nav">
<li><a href="http://www.eclipse.org/legal/privacy.php">Privacy Policy</a></li>
<li><a href="http://www.eclipse.org/legal/termsfuse.php">Terms of Use</a></li>
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<li><a href="http://www.eclipse.org/org/documents/epl-v10.php">Eclipse Public License </a></li>
<li><a href="http://www.eclipse.org/legal/">Legal Resources </a></li>
</ul> </section>
<section class="col-sm-offset-1 col-xs-11 col-sm-7 col-md-6 col-md-offset-0 hidden-print" id="footer-useful-links">
    <h2 class="section-title">Useful Links</h2>
<ul class="nav">
<li><a href="https://bugs.eclipse.org/bugs/">Report a Bug</a></li>
<li><a href="//help.eclipse.org/">Documentation</a></li>
<li><a href="http://www.eclipse.org/contribute/">How to Contribute</a></li>
<li><a href="http://www.eclipse.org/mail/">Mailing Lists</a></li>
<li><a href="http://www.eclipse.org/forums/">Forums</a></li>
<li><a href="//marketplace.eclipse.org">Marketplace</a></li>
</ul> </section>
<section class="col-sm-offset-1 col-xs-11 col-sm-7 col-md-6 col-md-offset-0 hidden-print" id="footer-other">
    <h2 class="section-title">Other</h2>
<ul class="nav">
<li><a href="http://www.eclipse.org/ide/">IDE and Tools</a></li>
<li><a href="http://www.eclipse.org/projects">Community of Projects</a></li>
<li><a href="http://www.eclipse.org/org/workinggroups/">Working Groups</a></li>
<li><a href="http://www.eclipse.org/org/research/">Research@Eclipse</a></li>
</ul>

<ul class="list-inline social-media">
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<li><a href="https://plus.google.com/+Eclipse"><i class="fa fa-google-plus-square"></i></a></li>
<li><a href="https://www.facebook.com/eclipse.org"><i class="fa fa-facebook-square"></i> </a></li>
<li><a href="https://www.youtube.com/user/EclipseFdn"><i class="fa fa-youtube-square"></i></a></li>
<li><a href="https://www.linkedin.com/company/eclipse-foundation"><i class="fa fa-linkedin-square"></i></a></li>
</ul> </section>
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common/themes/solstice/public/images/logo/eclipse-logo-bw-332x78.png"/></a></div></span>
  <p id="copyright-text">Copyright &copy; 2017 The Eclipse Foundation. All Rights Reserved.</p>
</div>  <a href="#" class="scrollup">Back to the top</a>
</div>
</div>
</footer>
<!-- Placed at the end of the document so the pages load faster -->
<script src="/eclipse.org-common/themes/solstice/public/javascript/main.min.js"></script>

<script type="text/javascript">

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_gaq.push(['_setAccount', 'UA-910670-2']);
_gaq.push(['_trackPageview']);

(function() {
var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
})();

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

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margin: 0.25in 0.5in 0.25in 0.5in;
tab-interval: 0.5in;
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margin-left: auto;
margin-top: 0.5em;
margin-bottom: 0.5em;
}
p.list {
margin-left: 0.5in;
margin-top: 0.05em;
margin-bottom: 0.05em;
}

```

```
}
</style>

</head>

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</body>

</html>

1.79 HikariCP 3.1.0

1.80 historian 0.20.1

1.81 http_multi_server 2.0.3

1.81.1 Available under license :

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1.82 http_server-dart 0.9.6

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1.83 httpclient 4.5.2

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1.84 httpcore 4.4.4

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1.86 ignite-core 2.3.0

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```
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```
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// List of ignite-slf4j module's dependencies provided as a part of this distribution.  
// -----
```

```
=====  
For SLF4J API Module (http://www.slf4j.org) org.slf4j:slf4j-api:jar:1.7.7  
=====
```

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```
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1.90 ignite-spring 2.3.0

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// -----
```

```
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1.91 intl 0.15.0

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1.99 jackson-databind 2.8.11.1

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1.100 jackson-databind 2.9.8

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1.101 jackson-databind 2.8.10

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1.102 jackson-dataformat-msgpack 0.8.16

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1.103 jackson-dataformat-msgpack 0.8.14

1.104 jackson-dataformat-yaml 2.9.6

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1.105 java-dataloader 2.0.2

1.106 JavaBeans Activation Framework (JAF)

1.1

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1.117 json-schema-core 1.2.8

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1.118 json-schema-validator 2.2.8

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1.119 json-schema-validator 0.1.13

1.120 Json.NET 11.0.2

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1.121 jsr305 3.0.1

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1.122 JUnit 4.12

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1.123 junit-jupiter-api 5.0.1

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1.124 junit-platform-commons 1.0.1

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1.128 **lodash.merge** 4.6.1

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1.132 loose-envify 1.4.0

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1.133 lua-resty-hmac 0.02

1.134 lua-resty-http 0.12

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1.135 lua-resty-jwt 0.1.11

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1.137 lua-resty-session 2.22

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1.138 lucene-analyzers-common 5.5.2

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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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1.144 lz4/gplv2_programs r131 :1

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.145 math_expressions 0.2.0+1

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1.146 mime_type 0.1.8

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```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>MIT LICENSE</title>
```

```
</head>
```

```
<body>
```

```
<h3>
```

```
LICENSE
```

```
</h3>
```

```
<p id="text">
```

```
<pre>
```

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```
</pre>  
</p>  
</body>  
</html>
```

1.147 mockito-core 2.12.0

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1.168 objenesis 2.6

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1.169 OpenSSL 1.0.2q

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1.170 opentest4j 1.0.0

1.171 package_config 0.1.5

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```
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```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.174 path-dart 1.4.2

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1.175 petitparser-dart 1.5.3

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1.176 postgresql-jdbc 42.2.5

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title: PostgreSQL JDBC Contributors
resource: ../media
nav: ../

```
{% include submenu_community.html %}
```

```
<div id="pgContentWrap">  
  <h1>Contributors</h1>  
  <hr />  
  <div>  
    <ul>  
      <li><a href="#maintainers">Maintainers</a></li>  
      <li><a href="#authors">Previous Maintainers</a></li>  
      <li><a href="#developers">Developers</a></li>
```

```
<li><a href="#translators">Translators</a></li>
</ul>
</div>
<hr />
```

```
<a name="maintainers"></a>
<h2 class="underlined_10">Maintainers</h2>
<div>
<p>
Please do not contact the maintainers directly unless you have
a specific need to contact just them. Please use the
<a href="mailinglist.html#general">pgsql-jdbc@postgresql.org</a>
mailing list if at all possible.
</p>
<ul>
<li>[davec] - Dave Cramer (pg.at.fastcrypt.com)</li>
<li>[jurka] - Kris Jurka (jurka.at.ejurka.com)</li>
<li>[oliver] - Oliver Jowett (oliver.at.opencloud.com)</li>
</ul>
</div>
<hr />
```

```
<a name="authors"></a>
<h2 class="underlined_10">Previous Maintainers</h2>
<div>
<p>
The original JDBC driver was written by Adrian Hall. Peter Mount
and Barry Lind have maintained it in the past, but have
since moved on to other things.
</p>
</div>
<hr />
```

```
<a name="developers"></a>
<h2 class="underlined_10">Developers</h2>
<div>
<p>
People who have contributed significant code to the project since
the 7.4 release. A careful historical study has not been
commissioned, but if you've done something valuable, we'd
be happy to recognize you for it. Just let us know.
</p>
<ul>
<li>Jan Andre le Roux
<ul>
<li>ResultSetMetaData information based on the V3 protocol</li>
</ul>
</li>
```

- Jaroslaw J. PysznyImprove MetaData regarding the serial datatypeUlrich MeisAllow users to customize the SSL connectionXavier PoinardStandard escaped functions {fn ...() }Oliver SiegmarSupport for infinity in the timestamp datatypeMake PGInterval able to decode and manipulate interval dataMichael BarkerBlob write and position methods.Andras KadingerSupport asynchronous notification retrieval.Heikki LinnakangasXADataSource implementation.Luis Vilar FloresReduce memory usage retrieving bytea data.Michael PaesoldCorrectly parse dollar quotes and comments.Work with standard_conforming_strings = on.Mikko Tiihonen

```
<ul>
  <li>Improve speed of parsing ResultSet data.</li>
</ul>
</li>
<li>Marek Lewczuk
  <ul>
    <li>Support multi-dimensional arrays and NULL array elements.</li>
  </ul>
</li>
</ul>
</div>
<hr />
```

```
<a name="translators"></a>
<h2 class="underlined_10">Translators</h2>
```

```
<div>
  <ul>
    <li>cs - Czech
      <ul>
        <li>Petr Dittrich</li>
      </ul>
    </li>
    <li>de - German
      <ul>
        <li>Andre Bialojahn</li>
      </ul>
    </li>
    <li>es - Spanish
      <ul>
        <li>Diego A. Gil</li>
      </ul>
    </li>
    <li>fr - French
      <ul>
        <li>Xavier Poinsard</li>
      </ul>
    </li>
    <li>it - Italian
      <ul>
        <li>Giuseppe Sacco</li>
      </ul>
    </li>
    <li>pl - Polish
      <ul>
        <li>Jaroslaw Pyszny</li>
      </ul>
    </li>
    <li>pt_BR - Brazilian Portuguese
```

```

<ul>
  <li>Euler Taveira de Oliveira</li>
</ul>
</li>
<li>ru - Russian
  <ul>
    <li>Serguei Mokhov</li>
  </ul>
</li>
<li>sr - Serbian
  <ul>
    <li>Bojan Skaljac</li>
  </ul>
</li>
<li>tr - Turkish
  <ul>
    <li>Devrim Gunduz</li>
    <li>Nicolai Tufar</li>
  </ul>
</li>
<li>zh_CN - Simplified Chinese
  <ul>
    <li>Weiping</li>
    <li>Kuo ChaoYi</li>
  </ul>
</li>
<li>zh_TW - Traditional Chinese
  <ul>
    <li>Zhenbang Wei</li>
    <li>Kuo ChaoYi</li>
  </ul>
</li>
</ul>
</div>
</div> <!-- pgContentWrap -->

```

```

layout: default
title: PostgreSQL JDBC License
resource: ../media
nav: ../

```

```
{% include submenu_about.html %}
```

```

<div id="pgContentWrap">
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  <p>
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  </p>

```

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</p>
<hr />

```
<pre style="font-family: monospace,'Courier'; background-color: #f9f9f9; padding: 1em; border: 1px solid #ddd">
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```

```
</div> <!-- pgContentWrap -->
```

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"mjanczykowski" : "https://github.com/mjanczykowski",
"rnveach" : "https://github.com/rnveach",
"slmsbrhgn" : "https://github.com/slmsbrhgn",
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"zapov" : "https://github.com/zapov",
"Ivaro Hernandez Tortosa" : "https://github.com/ahachete",
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1.177 pub_semver 1.3.2

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1.178 quiver-dart 0.22.0

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1.179 RapidJSON 1.1.0

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1.180 reactive-streams 1.0.2

1.181 runtime_shared 0.20.1

1.182 rxjava 2.1.3

1.183 sdk-dslink-dart 1.0.0

1.183.1 Available under license :

part of dslink.common;

```
class Permission {  
    /// now allowed to do anything  
    static const int NONE = 0;
```

```
    /// list node
```

```

static const int LIST = 1;

/// read node
static const int READ = 2;

/// write attribute and value
static const int WRITE = 3;

/// config the node
static const int CONFIG = 4;

/// something that can never happen
static const int NEVER = 5;

static const List<String> names = const [
    'none',
    'list',
    'read',
    'write',
    'config',
    'never'
];

static const Map<String, int> nameParser = const {
    'none': NONE,
    'list': LIST,
    'read': READ,
    'write': WRITE,
    'config': CONFIG,
    'never': NEVER
};

static int parse(Object obj, [int defaultVal = NEVER]) {
    if (obj is String && nameParser.containsKey(obj)) {
        return nameParser[obj];
    }
    return defaultVal;
}

class PermissionList {
    Map<String, int> idMatches = {};
    Map<String, int> groupMatches = {};
    int defaultPermission = Permission.NONE;

    void updatePermissions(List data) {
        idMatches.clear();
        groupMatches.clear();
    }
}

```

```

defaultPermission = Permission.NONE;
for (Object obj in data) {
    if (obj is Map) {
        if (obj['id'] is String) {
            idMatches[obj['id']] = Permission.nameParser[obj['permission']];
        } else if (obj['group'] is String) {
            if (obj['group'] == 'default') {
                defaultPermission = Permission.nameParser[obj['permission']];
            } else {
                groupMatches[obj['group']] =
                    Permission.nameParser[obj['permission']];
            }
        }
    }
}

bool _FORCE_CONFIG = true;

int getPermission(Responder responder) {
    // TODO Permission temp workaround before user permission is implemented
    if (_FORCE_CONFIG) {
        return Permission.CONFIG;
    }
    if (idMatches.containsKey(responder.reqId)) {
        return idMatches[responder.reqId];
    }

    int rslt = Permission.NEVER;
    for (String group in responder.groups) {
        if (groupMatches.containsKey(group)) {
            int v = groupMatches[group];
            if (v < rslt) {
                // choose the lowest permission from all matched group
                rslt = v;
            }
        }
    }

    if (rslt == Permission.NEVER) {
        return defaultPermission;
    }
    return rslt;
}
...

```

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1.184 slf4j-api 1.7.25

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1.185 slf4j-ext 1.7.25

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1.190 sqlite-amalgamation 3.26.0

1.191 stack_trace 1.7.3

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1.192 Statemachine master

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1.193 stich-dart 0.2.0+4

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1.194 swagger-annotations 1.5.18

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 */

package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 *
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

    /**
     * The name of the license.
     *
     * @return the name of the license
     */
    String name();

}

```



```

    * An optional URL for the license.
    *
    * @return an optional URL for the license.
    */
    String url() default "";
}

```

1.195 swagger-annotations 2.0.0-rc4

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 */

package io.swagger.v3.oas.annotations.info;

import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * The annotation may be used in { @link Info#license()} to define a license for the OpenAPI spec.
 *
 * @see <a target="_new" href="https://github.com/OAI/OpenAPI-Specification/blob/3.0.1/versions/3.0.1.md#licenseObject">License (OpenAPI specification)</a>
 * @see io.swagger.v3.oas.annotations.OpenAPIDefinition
 * @see Info
 */
@Target({})
@Retention(RetentionPolicy.RUNTIME)
public @interface License {
    /**
     * The license name used for the API.
     *
     * @return the name of the license
     */
}

```

```

    **/
    String name() default "";

    /**
     * A URL to the license used for the API. MUST be in the format of a URL.
     *
     * @return the URL of the license
     **/
    String url() default "";

}

```

1.196 swagger-compat-spec-parser 1.0.34

1.197 swagger-core 1.5.18

1.198 swagger-core 2.0.0-rc4

1.199 swagger-models 2.0.0-rc4

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 */

package io.swagger.v3.oas.models.info;

```

```

import java.util.Objects;

/**
 * License
 *
 * @see "https://github.com/OAI/OpenAPI-Specification/blob/3.0.1/versions/3.0.1.md#licenseObject"
 */

public class License {
    private String name = null;
    private String url = null;
    private java.util.Map<String, Object> extensions = null;

    /**
     * returns the name property from a License instance.
     *
     * @return String name
     */

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public License name(String name) {
        this.name = name;
        return this;
    }

    /**
     * returns the url property from a License instance.
     *
     * @return String url
     */

    public String getUrl() {
        return url;
    }

    public void setUrl(String url) {
        this.url = url;
    }

    public License url(String url) {

```

```

        this.url = url;
        return this;
    }

    @Override
    public boolean equals(java.lang.Object o) {
        if (this == o) {
            return true;
        }
        if (o == null || getClass() != o.getClass()) {
            return false;
        }
        License license = (License) o;
        return Objects.equals(this.name, license.name) &&
            Objects.equals(this.url, license.url) &&
            Objects.equals(this.extensions, license.extensions);
    }

    @Override
    public int hashCode() {
        return Objects.hash(name, url, extensions);
    }

    public java.util.Map<String, Object> getExtensions() {
        return extensions;
    }

    public void addExtension(String name, Object value) {
        if (name == null || name.isEmpty() || !name.startsWith("x-")) {
            return;
        }
        if (this.extensions == null) {
            this.extensions = new java.util.HashMap<>();
        }
        this.extensions.put(name, value);
    }

    public void setExtensions(java.util.Map<String, Object> extensions) {
        this.extensions = extensions;
    }

    public License extensions(java.util.Map<String, Object> extensions) {
        this.extensions = extensions;
        return this;
    }

    @Override
    public String toString() {

```

```

StringBuilder sb = new StringBuilder();
sb.append("class License {\n");

    sb.append("  name: ").append(toIndentedString(name)).append("\n");
    sb.append("  url: ").append(toIndentedString(url)).append("\n");
    sb.append("}");
    return sb.toString();
}

/**
 * Convert the given object to string with each line indented by 4 spaces
 * (except the first line).
 */
private String toIndentedString(java.lang.Object o) {
    if (o == null) {
        return "null";
    }
    return o.toString().replace("\n", "\n    ");
}
}

```

1.200 swagger-models 1.5.18

1.200.1 Available under license :

```

package io.swagger.models;

import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;

import java.util.LinkedHashMap;
import java.util.Map;

public class License {
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();
    private String name;
    private String url;

    public License name(String name) {
        setName(name);
        return this;
    }

    public License url(String url) {
        setUrl(url);
        return this;
    }
}

```

```

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public String getUrl() {
    return url;
}

public void setUrl(String url) {
    this.url = url;
}

@JsonAnyGetter
public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

@JsonAnySetter
public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

public void setVendorExtensions(Map<String, Object> vendorExtensions) {
    this.vendorExtensions = vendorExtensions;
}

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((name == null) ? 0 : name.hashCode());
    result = prime * result + ((url == null) ? 0 : url.hashCode());
    result = prime * result + ((vendorExtensions == null) ? 0 : vendorExtensions.hashCode());
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
}

```

```
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    License other = (License) obj;
    if (name == null) {
        if (other.name != null) {
            return false;
        }
    } else if (!name.equals(other.name)) {
        return false;
    }
    if (url == null) {
        if (other.url != null) {
            return false;
        }
    } else if (!url.equals(other.url)) {
        return false;
    }
    if (vendorExtensions == null) {
        if (other.vendorExtensions != null) {
            return false;
        }
    } else if (!vendorExtensions.equals(other.vendorExtensions)) {
        return false;
    }
    return true;
}
}
```

1.201 swagger-parser 1.0.34

1.202 swagger-parser 2.0.0-rc3

1.203 swagger-parser-core 2.0.0-rc3

1.204 swagger-parser-v2-converter 2.0.0-rc3

1.205 swagger-parser-v3 2.0.0-rc3

1.206 symbol-observable 1.2.0

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1.207 system_info 0.0.16

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1.208 tcmmalloc (including perftools and libunwind) 2.4.91

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1.209 throttle-debounce 2.0.0

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1.215 vertx-auth-jwt 3.5.4

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1.218 vertx-ignite 3.5.4

1.219 vertx-jwt 3.5.4

1.220 vertx-rx-java2 3.5.4

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1.226 vue 2.5.16

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1.227 vue-apollo 3.0.0-beta.19

1.228 vue-clickaway 2.2.2

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1.236 watcher 0.9.7+3

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1.237 yajl-2.0.1 2.0.1

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1.238 yaml 2.1.7

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1.239 yamlicious 0.0.5

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1.240 zen-observable 0.8.8

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1.241 zen-observable-ts 0.8.9

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1.242 zlib 1.2.11

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