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Contents

1.1 alphanum-sort-dart 0.1.1
   1.1.1 Available under license
1.2 Apache Commons BeanUtils 1.9.2
   1.2.1 Available under license
1.3 Apache Commons Logging 1.2
   1.3.1 Available under license
1.4 archive 2.0.0
   1.4.1 Available under license
1.5 async-dart 1.12.0
   1.5.1 Available under license
1.6 bcprov-jdk15on 1.60
1.7 boost 1.69.0
   1.7.1 Available under license
1.8 Boost Library 1.67
   1.8.1 Available under license
1.9 boost.process 0.5
   1.9.1 Available under license
1.10 candiedyaml 1.0
   1.10.1 Available under license
1.11 charted-dart 0.4.8
   1.11.1 Available under license
1.12 com.h2database 1.4.199
   1.12.1 Available under license
1.13 Commons Collections 3.2.1
   1.13.1 Available under license
1.14 Commons Digester 1.8.1
1.14.1 Available under license
1.15 commons-collections 3.2.2
1.15.1 Available under license
1.16 commons-csv 1.5
1.16.1 Available under license
1.17 commons-dbcp2 2.6.0
1.17.1 Available under license
1.18 commons-lang3 3.9
1.18.1 Available under license
1.19 commons-lang3 3.8
1.19.1 Available under license
1.20 commons-pool2 2.6.2
1.20.1 Available under license
1.21 commons-validator 1.6
1.21.1 Available under license
1.22 crypto 2.0.2
1.22.1 Available under license
1.23 csv-dart 2.0.1
1.23.1 Available under license
1.24 dart-lang sdk 1.21.1
1.24.1 Available under license
1.25 dart-izma 0.3.0
1.25.1 Available under license
1.26 dart-xml 2.4.3
1.26.1 Available under license
1.27 dartdap 0.3.3
1.27.1 Available under license
1.28 docker 1.12 :g3990f28
1.28.1 Available under license
1.29 docker-go-units 0.3.1-6 :gf2145db
1.29.1 Available under license
1.30 dsbroker 1.1.1+1
1.30.1 Available under license
1.31 dslink 0.20.1
1.31.1 Available under license
1.32 dslink-alarm 1.10.1
1.32.1 Available under license
1.33 dslink-dart-dql 72445afc32028d9614ed2a5904edadef34e0688e
1.33.1 Available under license
1.34 dslink-dart-system 93cfbb439824087ad7e2422f5ba60d7db73ec2a4
   1.34.1 Available under license
1.35 dslink-java-jdbc 0.2.2
   1.35.1 Available under license
1.36 duosecurity-dart 0.0.1
   1.36.1 Available under license
1.37 ghodss-yaml 1.0
   1.37.1 Available under license
1.38 git 1.8.3.1 :13.el7
   1.38.1 Available under license
1.39 glob 1.0.5
   1.39.1 Available under license
1.40 go 1.11.4
   1.40.1 Available under license
1.41 go 1.6.2
   1.41.1 Available under license
1.42 go-ansiterm 0.1 :fa152c58bc15761d0200cb75fe958b89a9d4888e
   1.42.1 Available under license
1.43 go-blackfriday 1.4
   1.43.1 Available under license
1.44 go-cleanhttp 0.1 :ad28ea4487f05916463e2423a55166280e8254b5
   1.44.1 Available under license
1.45 go-cli 1.2
   1.45.1 Available under license
1.46 go-crypto 9419663f5a44be8b34ca85f08abc5fe1be11f8a3
   1.46.1 Available under license
1.47 go-curve25519 1.6
   1.47.1 Available under license
1.48 go-dockerclient 0.1 :3162ed100df52ad76c94cddf1b8b2a45d4f5e203d
   1.48.1 Available under license
1.49 go-ed25519 1.6
   1.49.1 Available under license
1.50 go-net 0.1 :ef00b378c73f107bf44d5c9b69875255ce89b79a
   1.50.1 Available under license
1.51 go-shutil 1.6
   1.51.1 Available under license
1.52 go-ssh 1.6
   1.52.1 Available under license
1.53 go-sys 0.1 :9bb9f0998d48b31547d975974935e9b48c7a03c
1.53.1 Available under license

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    1.54.1 Available under license

1.55 go-yaml 2.0 :a5b47d31c556af34a302ce5d659e6fea44d90de0
    1.55.1 Available under license

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    1.56.1 Available under license

1.57 gojsonreference 1.0
    1.57.1 Available under license

1.58 gojsonschema 1.0
    1.58.1 Available under license

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    1.59.1 Available under license

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    1.60.1 Available under license

1.61 goreq 1.6
    1.61.1 Available under license

1.62 HikariCP 3.1.0

1.63 historian 0.20.1

1.64 http-dart 0.11.3+9
    1.64.1 Available under license

1.65 http_multi_server 2.0.3
    1.65.1 Available under license

1.66 http_server-dart 0.9.6
    1.66.1 Available under license

1.67 intl 0.15.0
    1.67.1 Available under license

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    1.68.1 Available under license

1.69 jackson-core 2.9.6
    1.69.1 Available under license

1.70 jackson-databind 2.9.9.3
    1.70.1 Available under license

1.71 jackson-databind 2.8.10
    1.71.1 Available under license

1.72 jackson-dataformat-msgpack 0.8.16
    1.72.1 Available under license

1.73 jcommander 1.72

1.74 jdbc-postgres 8.4.702
1.74.1 Available under license

1.75 JLine 2.12
1.75.1 Available under license

1.76 Json.NET 11.0.2
1.76.1 Available under license

1.77 legit-dart 0.1.1
1.77.1 Available under license

1.78 logging 0.20.1

1.79 logrus 0.10.0-38 :g3ec0642
1.79.1 Available under license

1.80 lz4 r131 :1
1.80.1 Available under license

1.81 lz4/gplv2_programs r131 :1
1.81.1 Available under license

1.82 math_expressions 0.2.0+1
1.82.1 Available under license

1.83 mime_type 0.1.8
1.83.1 Available under license

1.84 msgpack-core 0.8.14
1.85 msgpack-core 0.8.16
1.86 mysql-connector-java 6.0.6
1.87 netty 4.1.25
1.87.1 Available under license

1.88 netty-all 4.1.28.Final
1.88.1 Available under license

1.89 oauth-dart 1.2.1
1.89.1 Available under license

1.90 OpenSSL 1.0.2r :1.0.2r
1.90.1 Notifications
1.90.2 Available under license

1.91 package_config 0.1.5
1.91.1 Available under license

1.92 parstream-authentication 1.2
1.92.1 Available under license

1.93 password_hasher 0.3.1
1.93.1 Available under license

1.94 path-dart 1.4.2
1.94.1 Available under license

1.95 petitparser-dart 1.5.3
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<th>Version</th>
<th>Description</th>
<th>Notes</th>
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<td><strong>sqlite-amalgamation 3.26.0</strong></td>
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<td>1.109</td>
<td><strong>system_info 0.0.16</strong></td>
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<td><strong>typed_data 1.1.3</strong></td>
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<td><strong>watcher 0.9.7+3</strong></td>
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<td><strong>yajl-2.0.1</strong></td>
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1.16 yaml 2.1.7
   1.16.1 Available under license

1.17 yamlicious 0.0.5
   1.17.1 Available under license

1.18 zlib 1.2.11
   1.18.1 Available under license

1.1 alphanum-sort-dart 0.1.1

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1.4 archive 2.0.0

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
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1.5 async-dart 1.12.0
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1.6 bcprov-jdk15on 1.60
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1.7 boost 1.69.0

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*  
*/

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

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

std::ostream& operator << (std::ostream& os, const split_path& p)
{
  os << "<a href="""" << (p.root / p.file).string() << """" << """" << p.file.string() << """";
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 ">
    "<html>
    "<head>
    "<title>Boost Licence Dependency Information"
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os <<
    "<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 << "\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...
" " <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 << "\n";
++si;
}

os << "</p>\n";  //
// 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+)\n]");
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>
";  //
// 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">\n";
    while(i != j)
    {
        // title:
os << "\n";
            // license text:
os << "<BLOCKQUOTE>\n";
            // Copyright holders:
os << "\n";
            // 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>
{
    // 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><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><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><p>
";<p>The following " << m_unknown_licenses.size() << " files had no recognisable license information:";<p>
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br">
    ++i2;
}
os << "</p><BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
// os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2><p>
";<p>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:";<p>
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br">
    ++i2;
}
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><p>
";<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>
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)
// Output list of files that could be moved over to the Boost Software License

os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>

"The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:

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>
    ++i2;
}

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

// Output list of files that can not be moved over to the Boost Software License

os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>

"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:

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>
    ++i2;
}

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

// Output list of authors that we need permission for to move to the BSL

os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>

"Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "<br>

os << "</p></BLOCKQUOTE>";
//
// output a table of copyright information:
//
os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1">

std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr>\n"
    ++ad;
}
os << "</table>\n";

//
// output file dependency information:
//
os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>

std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>
";
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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This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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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 Jansen (jansen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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  HAS_SOURCE: true,
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};
</script>
</head>
<body>

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34
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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/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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<td><img src="https://placehold.it/20x20" alt="search/close.png" /></td>
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</tbody>
</table>
Adapters for Boost.MPL containers.

- **struct boost::mpl::integral_c< T, v >**
  - Adapter for IntegralConstants from the Boost.MPL.
  - [More...](structboost_1_1mpl_1_1integral__c.html)

- **struct boost::mpl::list< T >**
  - Adapter for Boost.MPL lists.

- **struct boost::mpl::vector< T >**
  - Adapter for Boost.MPL vectors.

Classes

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<th>Class</th>
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<td>boost::mpl::integral_c&lt; T, v &gt;</td>
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<td>boost::mpl::list&lt; T &gt;</td>
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<tr>
<td>boost::mpl::vector&lt; T &gt;</td>
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</table>
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#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
               '--date=short', '--format=%aN%x09%ad', filename],
               universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        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 = []
        # 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*\d{4})?\s*+(?P<name>\.+?){s*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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<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
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]

[section:mpl MPL Interoperability]

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

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]
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<td align="center"><a href="../../../../../../more/index.htm">More</a></td>
</tr>
</table>
</body>
</html>
All the value based traits in this library conform to MPL's requirements for an Integral Constant type. please note that these types no longer inherit from \texttt{mpl\_true} or \texttt{mpl\_false} etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from \texttt{integral\_constant} to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.
# MPL Support, `<boost/mp11/mpl.hpp>`

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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//
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>

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#define BOOST_CONFIG_HPP

#include <boom/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#pragma once
#endif

#include <cstdint>

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<\texttt{std::size	extunderscore t S}>
struct ls_zeros
{
  static const \texttt{std::size	extunderscore t value = (S \& \texttt{std::size	extunderscore t(1)}) ? 0 : (1u + ls_zeros<\texttt{(S \gg 1u)}>::\texttt{value});
};

template<>
struct ls_zeros<0>
{
  static const \texttt{std::size	extunderscore t value = 0;}
};

template<>
struct ls_zeros<1>
{
  static const \texttt{std::size	extunderscore t value = 0;}
};

}  // namespace interprocess 

namespace boost {

}  // namespace ipcdetail 

}  // namespace boost 

#endif  // ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

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////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#define BOOST_CONFIG_HPP

#include <boost/config.hpp>

#endif

#ifndef BOOST_CONFIG_HPP
#else

#endif

#pragma once

#include <boost/config.hpp>

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#endif

#pragma once

#define BOOST_HAS_PRAGMA_ONCE

#pragma once

#endif


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

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::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::alignment_of;
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);
];

// 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)));     
| };                                                             

//
#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)  

#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;
    
    
#endif

#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(...);
    
        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\ 
    {\ 
    };\ 

//

//

#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)

//
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 (dossier@src.dec.com) and Regis Cridilig (Regis.Cridilig@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.)
This package was debianized by Vladimir Prus <ghost@cs.csu.su> on

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM
EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list messsage of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryl Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un506n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennadiy Rozental (rogieff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Ganaue (Gottfried.Ganssauge -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssauge)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
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- twenyrr.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 Jrvj (jarjarvi -at- osl.ii.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.iu.edu)
Jeremy Siek (jsiek@osl.iu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbandela-at-ufi.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela@ufi.edu)
Jonathan Turkanis (turkanis - at - coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevlin Henney (kevlin - 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 Bjønnes (larsbj - at - lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicola M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
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- crab.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
Stefan Seefeld (seefeld -at- sympatico.ca)
Stephen Cleary (sicleary -at- jervisweb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)
Steve Cleary (Variant of Stephen Cleary)
Sylvain Pion (Sylvain.Pion -at- sophia.inria.fr)
The Trustees of Indiana University ()
Thomas Witt (witt - at - ive.uni-hannover.de, witt - at - acm.org, witt - at - styleadvisor.com)
Thorsten Jrgen Ottosen (nesotto - at - cs.auc.dk)
Thorsten Ottosen (nesotto - at - cs.auc.dk)
Toon Knapen (toon dot knapen -at- ftt.be)
The Trustees of Indiana University ()
University of Notre Dame ()
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)

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from `integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function
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73

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Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list message of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
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Daryle Walker (darylew -at- hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
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Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
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1.21 commons-validator 1.6

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**1.22 crypto 2.0.2**

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1.24 dart-lang sdk 1.21.1

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1.25 dart-lzma 0.3.0

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1.26 dart-xml 2.4.3

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1.27 dartdap 0.3.3

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1.28 docker 1.12 :g3990f28

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1.29 docker-go-units 0.3.1-6 :gf2145db

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1.30 dsbroker 1.1.1+1
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1.31 dslink 0.20.1
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```java
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");
        }
    }
}
1.32 dslink-alarm 1.10.1

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1.33 dslink-dart-dql

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1.34 dslink-dart-system

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1.37 ghodss-yaml 1.0

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1.38 git 1.8.3.1 :13.el7

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# This is the official list of people who can contribute
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#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.
#
# Please keep the list sorted.

Aamir Khan <syst3m.w0rm@gmail.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Andrei Korzhevskii <a.korzhevskiy@gmail.com>
Andrei Tudor Clin <mail@acln.ro>
Andrei Vieru <euvieru@gmail.com>
Andres Erbsen <andreser@google.com>
Andrew Austin <andrewaclt@gmail.com>
Andrew Balholm <andybalholm@gmail.com>
Andrew Benton <andrewmbenton@gmail.com>
Andrew Bonventure <andybons@chromium.org>
Andrew Braunstein <awbraunstein@gmail.com>
Andrew Bursavich <abursavich@gmail.com>
Andrew Ekstedt <andrew.ekstedt@gmail.com>
Andrew Etter <andrew etter@gmail.com>
Andrew Gerrand <adg@golang.org>
Andrew Harding <andrew@spacemonkey.com>
Andrew Jackura <ajackura@google.com>
Andrew Lutomirski <andy@luto.us>
Andrew Pilloud <andrewpilloud@igneoussystems.com>
Andrew Pogrebnoy <absourd.noise@gmail.com>
Andrew Pritchard <awpritchard@gmail.com>
Andrew Radev <andrey radev@gmail.com>
Andrew Skiba <skibaa@gmail.com>
Andrew Szeto <andrew@jabagawee.com>
Andrew Werner <andrew@upthere.com> <awerner32@gmail.com>
Andrew Wilkins <axwalk@gmail.com>
Andrew Williams <williams@upthere.com>
Andrey Mirtchovski <mirtchovski@gmail.com>
Andrey Petrov <andrey.petrov@shazow.net>
Andrii Soldatenko <andrii.soldatenko@gmail.com>
Andrii Soluk <isoluchok@gmail.com>
Andriy Lytvynov <lytvynov.a.v@gmail.com>
Andrzej eel <andrii zhezhel@gmail.com>
Andy Balholm <andy@balholm.com>
Andy Davis <andy@bigandian.com>
Andy Finkenstadt <afinkenstadt@zynga.com>
Andy Lindeman <andy@lindeman.io>
Andy Maloney <asmaloney@gmail.com>
Andy Walker <walkeraj@gmail.com>
Anfernee Yongkun Gui <anfernee gui@gmail.com>
Angelo Bulfone <mbulfone@gmail.com>
Anh Hai Trinh <anh hai trinh@gmail.com>
Anit Gandhi <anitgandhi@gmail.com>
Anmol Sethi <anmol@aubble.com>
Anschel Schaffer-Cohen <anschelsc@gmail.com>
Anthony Alves <cvballa3g0@gmail.com>
Anthony Canino <anthony caninol@gmail.com>
Anthony Eufemio <anthony eufemio@gmail.com>
Anthony Martin <ality@pbrane.org>
Anthony Sottile <asottile@umich.edu>
Anthony Starks <ajstarks@gmail.com>
Anthony Voutas <voutasaurus@gmail.com>
Anthony Woods <awoods@raintank.io>
Antoine Martin <antoine97.martin@gmail.com>
Antonin Amand <antonin.amand@gmail.com>
Antonio Antelo <aantelov87@gmail.com>
Antonio Bibiano <antbbtn@gmail.com>
Antonio Murdaca <runcom@redhat.com>
Antonio Troina <thoeni@gmail.com>
Apisak Darakananda <pongad@gmail.com>
Aram Hvrneanu <aram@mgk.ro>
Areski Belaïdi <areski@gmail.com>
Ariel Mashraki <ariel@mashraki.co.il>
Arkadi Pyuro <arkadi@google.com>
Arlo Breault <arlolra@gmail.com>
Arnaud Ysmal <arnaud.ysmal@gmail.com>
Arne Hormann <arnehormann@gmail.com>
Arnout Engelen <arnout@bzzt.net>
Aron Nopanen <aron.nopanen@gmail.com>
Arthur Khashaev <arthur@khashaev.ru>
Artyom Pervukhin <artyom.pervukhin@gmail.com>
Arvind Rajesh Tamilmani <art@a-30.net>
Ashish Gandhi <ag@ashishgandhi.org>
Asim Shankar <asimshankar@gmail.com>
Atin Malaviya <amalaviya@akamai.com>
Ato Araki <ato.araki@gmail.com>
Audrey Lim <audreylh@gmail.com>
Audrius Butkevicius <audrius.butkevicius@gmail.com>
Augusto Roman <aroman@gmail.com>
Aulus Egnatius Varialus <varialus@gmail.com>
Aurlien Rainone <aurliien.rainone@gmail.com>
Austin Clements <austin@gmail.com> <aclements@csail.mit.edu>
awaw fumin <awawfumin@gmail.com>
Awn Umar <awn@cryptolosophy.io>
Axel Wagner <axel.wagner.hh@gmail.com>
Ayanamist Yang <ayanamist@gmail.com>
Aymerick Jehanne <aymerick@jehanne.org>
Azat Kaumov <kaumov.a.r@gmail.com>
Baiju Muthukadan <baiju.m.mail@gmail.com>
Balazs Lecz <leczb@google.com>
Baokun Lee <nototon@gmail.com>
Bartosz Grzybowski <melkorm@gmail.com>
Bartosz Oler <brtsz@gmail.com>
Bastian Ike <bastian.ike@gmail.com>
Ben Burkert <ben@benburkert.com>
Ben Eitzen <eitzenb@golang.org>
Ben Fried <ben.fried@gmail.com>
Ben Haines <bhainesva@gmail.com>
Chew Choon Keat <choonkeat@gmail.com>
Cholerae Hu <choleraehyq@gmail.com>
Chotepud Teo <AlexRouSg@users.noreply.github.com>
Chris Ball <chris@printf.net>
Chris Biscardi <chris@christopherbiscardi.com>
Chris Broadfoot <cbro@golang.org>
Chris Dollin <ehog.hedge@gmail.com>
Chris Farmiloe <chrisfarms@gmail.com>
Chris Hines <chris.cs.guy@gmail.com>
Chris Howey <howeyc@gmail.com>
Chris Hundt <hundt@google.com>
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>
Chris Kastorff <encryptio@gmail.com>
Chris Lennert <calennert@gmail.com>
Chris Liles <caveryliles@gmail.com>
Chris Manghane <cmang@golang.org>
Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com>
Chris Raynor <raynor@google.com>
Chris Roche <rodaine@gmail.com>
Chris Smith <chrsmith@users.noreply.github.com>
Chris Stockton <chrisstocktonaz@gmail.com>
Chris Zou <chriszou@ca.ibm.com>
Christian Alexander <christian@linux.com>
Christian Couder <chriscool@tuxfamily.org>
Christian Himpel <chressie@gmail.com> <chressie@gmail.com>
Christian Pellegrin <chri@evolware.org>
Christine Hansmann <chhansmann@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Blecker <admin@toph.ca>
Christopher Cahoon <chris.cahoon@gmail.com>
Christopher Guiney <chris@guiney.net>
Christopher Henderson <chris@ehenderson.org>
Christopher Koch <chrisko@google.com>
Christopher Nelson <nadiasvertex@gmail.com>
Christopher Nielsen <m4dh4tt3r@gmail.com>
Christopher Redden <christopher.redden@gmail.com>
Christopher Swenson <cswenson@gmail.com>
Christopher Wedgwood <cw@f00f.org>
Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>
Christy Perez <christy@linux.vnet.ibm.com>
CL Sung <clsung@gmail.com> <cl_sung@htc.com>
Clement Skau <clementskaugmail.com>
Cody Oss <the.cody.oss@gmail.com>
Colby Ranger <cranger@google.com>
Colin Cross <ccross@android.com>
Colin Edwards <colin@recursivepenguin.com>
Colin Kennedy <moshen.colin@gmail.com>
Colin Rice <clr@google.com>
Conrad Irwin <conrad.irwin@gmail.com>
Conrad Meyer <cemeyer@cs.washington.edu>
Conrado Gouvea <conradoplg@gmail.com>
Constantin Konstantinidis <constantinkonstantinidis@gmail.com>
Corey Thomasson <cthom.lists@gmail.com>
Cosmos Nicolaou <cnicolaou@gmail.com>
Costin Chirvasuta <ctin@gmail.com>
Craig Citro <craigcitro@gmail.com>
Cristian Staretu <unclejacksons@gmail.com>
Cuihtlauac ALVARADO <cuihtlauac.alvarado@orange.com>
Cyrill Schumacher <cyrill@schumacher.fm>
Daisuke Fujita <dtanshi45@gmail.com>
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>
Damien Gryski <dgryski@gmail.com>
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>
Damien Mathieu <42@dmathieu.com>
Damien Neil <dneil@gmail.com>
Damien Tournoud <damien@platform.sh>
Dan Ballard <dan@mindstab.net>
Dan Caddigan <goldcaddy77@gmail.com>
Dan Callahan <dan.callahan@gmail.com>
Dan Harrington <harringtond@gmail.com>
Dan Jacques <dnj@gmail.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Sinclair <dan.sinclair@gmail.com>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin <d.kerwin@gini.net>
Daniel Krech <eikeon@eikeon.com>
Daniel Lidn <daniel.liden.87@gmail.com>
Daniel Mart <mvdan@mvdan.cc>
Daniel Morsing <daniel.morsing@gmail.com>
Daniel Nadasi <dnadasi@gmail.com>
Daniel Nephin <dnephin@gmail.com>
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>
Daniel Skinner <daniel@dasa.cc>
Daniel Speichert <daniel@speichert.pl>
Daniel Theophanes <kardianos@gmail.com>
Daniel Upton <daniel@floppy.co>
Daniela Petruzalek <daniela.petruzalek@gmail.com>
Danny Rosseau <daniel.rosseau@gmail.com>
Daria Kolistratova <daria.kolistratova@intel.com>
Darren Elwood <darren@textnode.com>
Darshan Parajuli <parajudarshan@gmail.com>
Datong Sun <dndx@idndx.com>
Dave Borowitz <dborowitz@gmail.com>
Open Source Used In Edge and Fog Processing Module 1.7.1

Dave Bort <dbort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <djd@golang.org>
Dave Grijalva <dgrijalva@ngmoco.com>
Dave MacFarlane <driusan@gmail.com>
Dave Russell <forfuncsake@gmail.com>
David Anderson <danderson@google.com>
David Barnett <dbarnett@google.com>
David Benjamin <davidben@gmail.com>
David Brophy <dave@brophy.uk>
David Brgin <676c7473@gmail.com>
David Calavera <david.calavera@gmail.com>
David Carlier <devnexen@gmail.com>
David Chase <drchase@gmail.com>
David Covert <davidcovert@gmail.com>
David Crawshaw <david.crawshaw@zentus.com> <crawshaw@google.com> <crawshaw@golang.org>
David du Colombier <0intro@gmail.com>
David Forsythe <dforsythe@gmail.com>
David G. Andersen <dave.andersen@gmail.com>
David Glasser <glasser@meteor.com>
David Howden <dhowden@gmail.com>
David Hubbard <dsp@google.com>
David Jakob Fritz <david.jakob.fritz@gmail.com>
David Lazar <lazard@golang.org>
David Leon Gil <coruus@gmail.com>
David McLeish <davemc@google.com>
David NewHamlet <david@newhamlet.com>
David Presotto <presotto@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsansome.com>
David Stainton <dstainton415@gmail.com>
David Symonds <dSYMonds@golang.org>
David Thomas <davidthomas426@gmail.com>
David Titarenco <david.titarenco@gmail.com>
David Url <david@urld.io>
David Volquartz Lebech <david@lebech.info>
David Wimmer <davidlwimmer@gmail.com>
Davies Liu <davies.liu@gmail.com>
Davor Kapsa <davor.kapsa@gmail.com>
Dean Prichard <dean.prichard@gmail.com>
Deepak Jois <deepak.jois@gmail.com>
Denis Bernard <db047h@gmail.com>
Denis Brandolini <denis.brandolini@gmail.com>
Denis Nagorny <denis.nagorny@intel.com>
Dennis Kuhnert <mail.kuhnert@gmail.com>
Denys Honsiorovskiy <honsiorovskiy@gmail.com>
Derek Buitenhuiss <derek.buitenhuiss@gmail.com>
Derek Che <drc@yahoo-inc.com>
Guilherme Rezende <guilhermebr@gmail.com>
Guillaume J. Charmes <guillaume@charmes.net>
Guobiao Mei <meiguobiao@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustav Westling <gustav@westling.xyz>
Gustavo Franco <gustavofranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenael Treguier <gwnenn.kahz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H. brahim Gngr <igungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Hallgrimur Gunnarsson <halg@google.com>
HAMANO Tsukasa <hamano@ostech.co.jp>
Han-Wen Nienhuys <hanwen@google.com>
Hang Qian <hangqian90@gmail.com>
Hanjun Kim <hallazzang@gmail.com>
Harald Nordgren <haraldnordgren@gmail.com>
Hari haran <hariharan.uno@gmail.com>
Harirahan Srinath <srinath@google.com>
Harley Laue <losinggeneration@gmail.com>
Harry Moreno <moreno149@gmail.com>
Harshavardhana <hrshvardhana@gmail.com>
Hauke Löffler <hloeffler@users.noreply.github.com>
Hvad Haugen <havard.haugen@gmail.com>
He Liu <liulonnie@gmail.com>
Hector Chu <hectorchu@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
Henning Schmiedehausen <henning@schmiedehausen.org>
Henrik Edwards <henrik.edwards@gmail.com>
Henrik Hodne <henrik@hodne.io>
Henry Adi Sumarto <henry.adisumarto@gmail.com>
Henry Bubert <google@mindeco.de>
Henry Chang <mr.changyuheng@gmail.com>
Henry Clifford <h.a.clifford@gmail.com>
Herbert Georg Fischer <herbert.fischer@gmail.com>
Herbie Ong <herbie@gmail.com>
Heschi Kreinick <heschi@gmail.com>
Hilko Bengen <bengen@hilluzination.de>
Hiroaki Nakamura <hnakamur@gmail.com>
Hironao OTSUBO <motemen@gmail.com>
Hiroshi Ioka <hirochachacha@gmail.com>
Hitoshi Mitake <mitake.hitoshi@gmail.com>
Holden Huang <tttyh061@gmail.com>
Hong Ruiqi <hongruqi@gmail.com>
Hongfei Tan <feilengcui008@gmail.com>
Hossein Sheikh Attar <hattar@google.com>
Hsin Tsao <tsao@gmail.com>
Hsin-Ho Yeh <yhh92u@gmail.com>
Open Source Used In Edge and Fog Processing Module 1.7.1

Jay Conrod <jayconrod@google.com>
Jay Weisskopf <jay@jayschwa.net>
Jean de Klerk <deklerk@google.com>
Jean-Andr Santoni <jean.andre.santoni@gmail.com>
Jean-Francois Cantin <jfcantin@gmail.com>
Jean-Marc Eurin <jmeurin@google.com>
Jean-Nicolas Moal <jn.moal@gmail.com>
Jed Denlea <jed@fastly.com>
Jeet Parekh <jeetparekh96@gmail.com>
Jeevanandam M <jeeva@myjeeva.com>
Jeff (Zhefu) Jiang <jeffjiang@google.com>
Jeff Craig <jeffcraig@gmail.com>
Jeff Dupont <jeff.dupont@gmail.com>
Jeff Hodges <jeff@somethingsimilar.com>
Jeff Johnson <jrjohnson@google.com>
Jeff R. Allen <jra@nella.org> <jeff.allen@gmail.com>
Jeff Sickel <jas@corpus-callosum.com>
Jeff Wendling <jeff@spacemonkey.com>
Jeffrey H <jeffreyh192@gmail.com>
Jelte Fennema <github-tech@jeltef.nl>
Jens Frederich <jf Frederich@gmail.com>
Jeremiah Harmsen <jeremiah@google.com>
Jeremy Jackins <jeremy jackins@gmail.com>
Jeremy Schlatter <jeremy schlatter@gmail.com>
Jeroen Bobbeldijk <jerbob92@gmail.com>
Jerrin Shaji George <jerrinsg@gmail.com>
Jess Frazelle <me@jessfraz.com>
Jesse Szwedko <jesse.szwedko@gmail.com>
Jess Espino <jespinog@gmail.com>
Jianing Yu <jnyu@google.com>
Jianqiao Li <jianqiaoli@gmail.com>
Jihyun Yu <yjh0502@gmail.com>
Jim Cote <jf cote87@gmail.com>
Jim Kingdon <jim@bolt.me>
Jim McGrath <jimmc2@gmail.com>
Jim Minter <jminter@redhat.com>
Jimmy Frasche <soapboxcicero@gmail.com>
Jimmy Zelinskie <jimmyzelinskie@gmail.com>
Jin-wook Jeong <jeweljar@hanmail.net>
Jingcheng Zhang <diogin@gmail.com>
Jingguo Yao <y aojingguo@gmail.com>
Jiong Du <londevil@gmail.com>
Jirka Dank <dnk@mail.muni.cz>
Jiulong Wang <jiulongw@gmail.com>
Joakim Sernbrant <serbaut@gmail.com>
Joe Cortopassi <joe@joecortopassi.com>
Joe Farrell <joe2farrell@gmail.com>
Joe Harrison <joehazzers@gmail.com>
Joe Henke <joed.henke@gmail.com>
Joe Kyo <xunianzu@gmail.com>
Joe Poirier <jdpoirier@gmail.com>
Joe Richey <joerichey@google.com>
Joe Shaw <joe@joeshaw.org>
Joe Sylve <joe.sylve@gmail.com>
Joe Tsai <joetsai@digital-static.net>
Joel Sing <joel@sing.id.au> <jsing@google.com>
Jol Stemmer <jstemmer@google.com>
Joel Stemmer <stemmertech@gmail.com>
Joey Geiger <jgeiger@users.noreply.github.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
Johan Euphrosine <proppy@gmail.com>
Johan Sageryd <j@1616.se>
John Asmuth <jasmuth@gmail.com>
John Beisley <huin@google.com>
John C Barstow <jbowtie@amathaine.com>
John DeNero <denero@google.com>
John Dethridge <jcd@golang.org>
John Gibb <johngibb@gmail.com>
John Graham-Cumming <jgc@jgc.org> <jgrahamc@gmail.com>
John Howard Palevich <jack.palevich@gmail.com>
John Jeffery <jjeffery@sp.com.au>
John Jenkins <twodopeshaggy@gmail.com>
John Leidegren <john.leidegren@gmail.com>
John Newlin <jnewlin@google.com>
John Potocny <johnp@vividcortex.com>
John R. Lenton <jlenton@gmail.com>
John Schnake <schnake.john@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Johnny Luo <johnnyluo1980@gmail.com>
Jon Chen <jchen@justin.tv>
Jonas Bernoulli <jonas@bernoun.li>
Jonathan Allie <jonallie@gmail.com>
Jonathan Amsterdam <jba@gmail.com>
Jonathan Boulle <jonathanboulle@gmail.com>
Jonathan Chen <dijonkitchen@users.noreply.github.com>
Jonathan Feinberg <feinberg@google.com>
Jonathan Gold <jgold.bg@gmail.com>
Jonathan Hseu <jhseu@gmail.com>
Jonathan Mark <jmark@xenops.com> <jmark000@gmail.com>
Jonathan Nieder <jrm@gmail.com>
Jonathan Pentecost <pentecostjonathan@gmail.com>
Jonathan Pittman <jmpittman@gmail.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Stacks <jonstacks13@gmail.com>
Jonathan Wills <runningwild@gmail.com>
Open Source Used In Edge and Fog Processing Module 1.7.1

219

Kamil Rytarowski <krytarowski@users.noreply.github.com>
Kang Hu <hukangustc@gmail.com>
Karan Dhiman <karandhi@ca.ibm.com>
Karel Pazdera <pazderak@gmail.com>
Karoly Negyesi <chx1975@gmail.com>
Karsten Klier <karsten.koehler95@gmail.com>
Kashav Madan <kshvmdn@gmail.com>
Kate Manson <kate.manson@izettle.com>
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>
Katrina Owen <katrina.owen@gmail.com>
Kaviraj Kanagaraj <kavirajkanagaraj@gmail.com>
Kay Zhu <kayzhu@gmail.com>
KB Sriram <kbsriram@gmail.com>
Keegan Carruthers-Smith <keegan.csmith@gmail.com>
Kei Son <hey.calmdown@gmail.com>
Keiji Yoshida <keiji.yoshida.mail@gmail.com>
Keith Ball <inflatablewoman@gmail.com>
Keith Randall <kr@golang.org>
Keith Rarick <kr@xph.us>
Kelsey Hightower <kelsey.hightower@gmail.com>
Kelvin Foo Chuan Lyi <vmirage@gmail.com>
Ken Friedenbach <kenliz@cruzio.com>
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>
Ken Sedgwick <ken@bonsai.com>
Ken Thompson <ken@golang.org>
Kenji Kaneda <kenji.kaneda@gmail.com>
Kenji Yano <kenji.yano@gmail.com>
Kenneth Shaw <kenshaw@gmail.com>
Kenny Grant <kennygrant@gmail.com>
Kevin Ballard <kevin@sb.org>
Kevin Burke <kev@inburke.com>
Kevin Kirsch <kev.kirsch@gmail.com>
Kevin Klues <klueska@gmail.com> <klueska@gmail.com>
Kevin Malachowski <chowski@gmail.com>
Kevin Ruffin <kruffin@gmail.com>
Kevin Vu <kevin.m.vu@gmail.com>
Kieran Colford <kieran@kcolford.com>
Kim Shrier <kshrier@racktopsystems.com>
Kim Yongbin <kybinz@gmail.com>
Kir Kolyshkin <kolyshkin@gmail.com>
Kirill Smelkov <kirr@nexedi.com>
Kirk Han <kirk91.han@gmail.com>
Kirklin McDonald <kirklin.mcdonald@gmail.com>
Klaus Post <klauspost@gmail.com>
Kodie Goodwin <kodiegoodwin@gmail.com>
Koichi Shiraiishi <szchee.io@gmail.com>
Koki Ide <niconegoto@yahoo.co.jp>
Konstantin <konstantin8105@gmail.com>
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>
Kris Kwiatkowski <kris@cloudflare.com>
Kris Nova <kris@nivenly.com>
Kris Rousey <krousey@google.com>
Kristopher Watts <traetox@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kunpei Sakai <namusyaka@gmail.com>
Kuntal Majumder <hellozee@disroot.org>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eiais@google.com>
Kyohei Kadota <lufia@lufia.org>
Kyrillo Silin <silin@kyrylo.org>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lannm@gmail.com>
Lanre Adelowo <yo@lanre.wtf>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegman <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Lehner Florian <dev@der-flo.net>
Leigh McCulloch <leighmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <ljr@google.com>
Leon Klingele <git@leonklingele.de>
Leonel Quinteros <leonel.quinteros@gmail.com>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Lion Yang <lion@aosc.xyz>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <lmb@cloudflare.com>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@google.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcacoop.it>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Lucas Clemente <lclemente@google.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Rieffolo <luigi.rieffolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrjek <tr00.g33k@gmail.com>
Lukasz Milewski <lmilewski@gmail.com>
Luke Curley <qingu@gmail.com>
Luke Granger-Brown <git@lukegb.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylejf@lvd@golang.org>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeiqi2017@gmail.com>
Maciej Dbski <ma@42.am>
Magnus Hiie <magnus.hiie@gmail.com>
Maicon Costa <ma@42.am>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandanj@gmail.com>
Manish Goregaonkar <manishg@gmail.com>
Manoj Dayaram <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mrn@gmail.com>
Manu Garg <manugarg@gmail.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <nmendez534@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Hennings <marco.hennings@freiheit.com>
Marga Manterola <marga@google.com>
Marin Bai <marin.bai@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius Nuennerich <mn@moz.com>
Mark Adams <mark@markadams.me>
Markucciarelli <mk@moz.com>
Mark Harrison <mar@moz.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@google.com>
Marko Juhani Silokunna <marko.silokunna@gmail.com>
Marko Mikulicic <mkm@gmail.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko.joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@google.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoeffling <martin.hoeffling@gmx.de>
Martin Kreichgauer <martinkr@google.com>
Martin Kunc <martinkunc@users.noreply.github.com>
Martin Lindhe <martin.j,lindhe@gmail.com>
Martin Mohrmann <meehrmann@google.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsen <martin@minimum.se>
Martin Probst <martin@probst.io>
Martin Sucha <anty.sk+git@gmail.com>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budinas <mabu@google.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mat Ryer <thatmatryer@gmail.com>
Mt Gulyas <mgulyas86@gmail.com>
Matej Bao <matejbaco@gmail.com>
Mateus Amin <mateus.amin@gmail.com>
Mateusz Czapinski <czapkofan@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <me@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@gmail.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mjrjones@google.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsey <mdempsky@gmail.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matthew.horsnell@gmail.com>
Matthieu Hauglustaine <matthieu.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@gmail.com>
Maxim Ushakov <ushakov@gmail.com>
Maxime de Roucy <maxime.deroucy@gmail.com>
Mximo Cuadros Ortiz <mcuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Mayank Kumar <kmayankk@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Meng Zhuo <mengzhuo1203@gmail.com>
Mhd Sulhan <m.shulhan@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Michael Brandenburg <mbrandenburg@bolste.com>
Michael Chaten <mchaten@gmail.com>
Michael Darakananda <pongad@gmail.com>
Michael Dorner <mail@micaheldorner.de>
Michael Edwards <medwards@walledcity.ca>
Michael Elkins <michael.elkins@gmail.com>
Michael Fraenkel <michael.fraenkel@gmail.com>
Michael Fromberger <michael.j.fromberger@gmail.com>
Michael Gehring <mg@ebfe.org> <gnirheg.lehchim@gmail.com>
Michael Hendricks <michael@ndrix.org>
Michael Hoisie <hoisie@gmail.com>
Michael Hudson-Doyle <michael.hudson@linaro.org>
Miki Tebeka <miki.tebeka@gmail.com>
Mikio Har <mikioh.mikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Milan Knezevic <milan.knezevic@mips.com>
Milutin Jovanovic <jovanovic.milutin@gmail.com>
MinJae Kwon <mingrammer@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Miroslav Genov <mgenov@gmail.com>
Misty De Meo <misty.demeo@gmail.com>
Mohit Agarwal <mohit@sdf.org>
Mohit kumar Bajoria <mohitbajo36@gmail.com>
Momchil Velikov <momchil.velikov@gmail.com>
Monis Khan <mkhan@redhat.com>
Monty Taylor <mordred@inaugust.com>
Moriyoshi Koizumi <mozo@mozo.jp>
Morten Siebuhr <sbhr@sbhr.dk>
Mshe van der Sterre <moshevd@gmail.com>
Mostyn Bramley-Moore <mostyn@antipode.se>
Mrunal Patel <mrunalp@gmail.com>
Muhammad Falak R Wani <falakreyaz@gmail.com>
Muhammed Uluyl <uluyol0@gmail.com>
Mura Li <mura_li@castech.com.tw>
Nan Deng <smonnand@gmail.com>
Naoki Kanatani <k12naoki@gmail.com>
Nate Wilkinson <nathanwil7@gmail.com>
Nathan Cantelmo <n.cantelmo@gmail.com>
Nathan Caza <mastercactapus@gmail.com>
Nathan Humphreys <nkhumphreys@gmail.com>
Nathan John Youngman <nj@nathany.com>
Nathan Otterness <otternes@cs.unc.edu>
Nathan P Finch <nate Finch@gmail.com>
Nathan VanBenschoten <nvanbenschoten@gmail.com>
Nathan Youngman <git@nathany.com>
Nathan(yinian) Hu <nathanhu@gmail.com>
Nathaniel Cook <nvcook42@gmail.com>
Naveen Kumar Sangi <naveen.kumar.sangi@protonmail.com>
Neelesh Chandola <neelesh.e98@gmail.com>
Neil Lyons <nwjlyons@googlemail.com>
Neuman Vong <neuman@protonmail.com>
Neven Sajko <nsajko@gmail.com>
Nevins Bartolomeo <nevins.bartolomeo@gmail.com>
Niall Sheridan <nsheridan@gmail.com>
Nic Day <nic.day@me.com>
Nicholas Katsaros <nick@nickkatsaros.com>
Nicholas Maniscalco <nicholas@maniscalco.com>
Nicholas Presta <nick@nickpresta.ca> <nick1presta@gmail.com>
Nicholas Sullivan <nicholas.sullivan@gmail.com>
Nicholas Waples <nwaples@gmail.com>
Peter Conerly <pconerly@gmail.com>
Peter Froehlich <peter.hans.froehlich@gmail.com>
Peter Gonda <pgonda@google.com>
Peter Kleiweg <pkleiweg@xs4all.nl>
Peter McKenzie <petermck@google.com>
Peter Moody <pmoody@uber.com>
Peter Morjan <pmorjan@gmail.com>
Peter Mundy <go.peter.90@gmail.com>
Peter Nguyen <peter@mictis.com>
Peter Surnyi <speter.go1@gmail.com>
Peter Szab <pts@google.com>
Peter Szilgyi <peterke@gmail.com>
Peter Teichman <psteichman@fastly.com>
Peter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwil3058@gmail.com>
Peter Wu <pwu@cloudflare.com>
Peter Zhang <i@ddatsh.com>
Petrica Voicu <pvoicu@paypal.com>
Phil Pearl <philip.j.r.pearl@gmail.com>
Phil Pennock <pdp@golang.org>
Philip Brgesen <philip.borgesen@gmail.com>
Philip Brown <phil@bolthole.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Philip Nelson <me@pnelson.ca>
Philipp Stephani <phst@google.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Prinetti <pierreprinetti@gmail.com>
Pierre Rouillon <pierre.rouillon@gmail.com>
Piers <google@hellowipers.pro>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Piyush Mishra <piyush@codeitout.com>
Pontus Leitzler <leitzler@gmail.com>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Varanasi <prashant@prashantv.com>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Qiuxuan Zhu <ilsh1022@gmail.com>
Quan Tran <qued.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qpperez@ocs.online.net>
Quentin Renard <contact@asticode.com>
Quentin Smith <quentin@golang.org>
Quinn Slack <sqs@sourcegraph.com>
Sunny <me@darkowlzz.space>
Suriyaa Sundararuban <suriyaasundararuban@gmail.com>
Suyash <dextrous93@gmail.com>
Suzy Mueller <suzmue@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohei YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmatsuo@google.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@google.com>
Takuya Ueda <uedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <aizu.s1230022@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhiko Tsujikawa <tatsuhiko.t1@gmail.com>
Teague Cole <tncl443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi Nareddy <tejunareddy@gmail.com>
Terin Stock <terinjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanm@google.com>
Thanabodee Charoenpiriyakij <wingyminus@gmail.com>
Thanatat Tamtan <acoshift@gmail.com>
Thiago Avelino <@avelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Thomas Bouldin <inlined@gmail.com>
Thomas Bruyelle <thomas.bruyelle@gmail.com>
Thomas de Zeeuw <thomasdezeeuw@gmail.com>
Thomas Desrosiers <thomasdesr@gmail.com>
Thomas Habets <habets@gmail.com>
Thomas Kappler <tkappler@gmail.com>
Thomas Meson <zllak@hycik.org>
Thomas Wanielista <tomwans@gmail.com>
Thorben Krueger <thorben.krueger@gmail.com>
Thordur Bjornsson <thorduri@secnorth.net>
Tiago Queiroz <contato@tiago.eti.br>
Tilman Dilo <tilman.dilo@gmail.com>
Tim Cooijmans <timcooijmans@gmail.com>
Tim Cooper <tim.cooper@layeh.com>
Tim Ebringer <tim.ebringer@gmail.com>
Tim Heckman <t@heckman.io>
Tim Henderson <tim.tadh@gmail.com>
Tim Hockin <thockin@google.com>
Tim Swast <swast@google.com>
Tim Wright <tenortim@gmail.com>
Timo Savola <timosavola@gmail.com>
Timo Truyts <alkaloid.btx@gmail.com>
Timothy Studd <tim@timstudd.com>
Tipp Moseley <tipp@google.com>
Tobias Assarsson <tobias.assarsson@gmail.com>
Tobias Columbus <tobias.columbus@gmail.com> <tobias.columbus@googlemail.com>
Tobias Klauser <tklauser@distanz.ch>
Toby Burress <kurin@google.com>
Todd Neal <todd@tmeal.org>
Todd Wang <toddwang@gmail.com>
Tom Bergan <tombergan@google.com>
Tom Heng <zhm20070928@gmail.com>
Tom Lanyon <tomlanyon@google.com>
Tom Levy <tomlevy93@gmail.com>
Tom Limoncelli <tal@whatexit.org>
Tom Linford <tomlinford@gmail.com>
Tom Payne <tpayne@gmail.com>
Tom Szymborski <tgs@gmail.com>
Tom Thorogood <me+google@tomthorogood.co.uk>
Tom Wilkie <tom@weave.works>
Tommy Schaefer <tommy.schaefer@tecom.com>
Tomoya Ishizaki <zaq1tomo@gmail.com>
Tonis Tiigi <tonistiigi@gmail.com>
Tony Walker <walkert.uk@gmail.com>
Tor Andersson <tor.andersson@gmail.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Toshiki Shima <hayabusa1419@gmail.com>
Totoro W <tw19881113@gmail.com>
Travis Bischel <travis.bischel@gmail.com>
Travis Cline <travis.cline@gmail.com>
Trevor Strohman <trevor.strohman@gmail.com>
Trey Lawrence <lawrence.trey@gmail.com>
Trey Roessig <trey.roessig@gmail.com>
Trey Tacon <ttacon@gmail.com>
Tristan Amini <tamini01@ca.ibm.com>
Tristan Colgate <tcolgate@gmail.com>
Tristan Ooohry <ooohry@gmail.com>
Tristan Rice <rice@fn.lc>
Troels Thomsen <troels@thomsen.io>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zholkover <paulzhol@gmail.com>
Yves Junqueira <yvesj@gmail.com> <yves.junqueira@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
Zach Bintliff <zbintliff@gmail.com>
Zach Gershman <zachgersh@gmail.com>
Zachary Gershman <zgershman@pivotal.io>
Zak <srjknill@gmail.com>
Zakatell Kanda <hi@zkanda.io>
Zellyn Hunter <zellyn@squareup.com> <zellyn@gmail.com>
Zev Goldstein <zev.goldstein@gmail.com>
Zheng Dayu <davidzheng23@gmail.com>
Zhengyu He <hzy@gmail.com>
Zhongpeng Lin <zplin@uber.com>
Zhongtao Chen <chenzhontao@126.com>
Zhongwei Yao <zhongwei.yao@arm.com>
Zhou Peng <p@ctriple.cn>
Ziad Hatahet <hatahet@gmail.com>
Zorion Arrizabalaga <zorionk@gmail.com>
<max.faceless.frei@gmail.com>
<hagen1778@gmail.com>
<tbunyk@gmail.com>
<faxriddinjon@gmail.com>
<zs349596@gmail.com>
<bronze1man@gmail.com>

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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@goole.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Torres <tcboox@gmail.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Langley <agl@golang.org>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Acio Jnior <acciodantasjunior@gmail.com>
Ahmed Waheed Moanes <oneofone@gmail.com>
Ainan Garipov <gugl.zadolbal@gmail.com>
Akshat Kumar <seed@mail.nanosouffle.net>
Alan Donovan <adonovan@goole.com>
Alan Shreve <alan@INconshreveable.com>
Albert Strasheim <fullung@gmail.com>
Alberto Bertogli <albertito@blitiri.com.ar>
Alberto Donizetti <alb.donizetti@gmail.com>
Alberto Garca Hierro <alberto@garciahierro.com> <alberto.garcia.hierro@gmail.com>
Aleksandar Dezelin <dezelin@gmail.com>
Alex A Skinner <alex@lx lc>
Alex Brainman <alex.brainman@gmail.com>
Alex Bramley <abramley@google.com>
Alex Jin <toalexjin@gmail.com>
Alex Plugar <alex@plugar.org> <alexandre.plugaru@gmail.com>
Alex Schroeder <alex@gnu.org>
Alex Sergeyev <abc@alexsergeyev.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Orlov <alexander.orlov@loxal.net>
Alexander Reece <awrecee@gmail.com>
Alexander Surma <surma@surmair.de>
Alexander Zavnerchik <alex.vizor@gmail.com>
Alexander Zolotov <goldifit@gmail.com>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Normand <alexandre.normand@gmail.com>
Alexandre Mooi <brtznr@gmail.com>
Alexei Sholik <alcosholik@gmail.com>
Alexey Borzenkov <snaury@gmail.com>
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>
Alexis Imperial-Lebrand <ail@google.com>
Aliaksandr Valialkin <valy.snaury@gmail.com>
Alif Rachmawadi <subosito@gmail.com>
Amir Mohammad Saied <amir@gluegadget.com>
Daniel Kerwin <d.kerwin@gini.net>
Daniel Krech <eikeon@eikeon.com>
Daniel Lidn <daniel.liden.87@gmail.com>
Daniel Morsing <daniel.morsing@gmail.com>
Daniel Nadasi <dnadasi@google.com>
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>
Daniel Skinner <daniel@dasa.cc>
Daniel Theophanes <kardianos@gmail.com>
Darren Elwood <darren@textnode.com>
Dave Borowitz <dborowitz@google.com>
Dave Bort <dbort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <djd@golang.org>
Dave Grijalva <dgrijalva@ngmoco.com>
David Anderson <danderson@google.com>
David Barnett <dbarnett@google.com>
David Benjamin <davidben@gmail.com>
David Brgin <676c7473@gmail.com>
David Calavera <david.calavera@gmail.com>
David Chase <drchase@google.com>
David Covert <davidcovert@gmail.com>
David Crawshaw <david.crawshaw@zentus.com> <crawshaw@google.com> <crawshaw@golang.org>
David du Colombier <0intro@gmail.com>
David Forsythe <dforsythe@gmail.com>
David G. Andersen <dave.andersen@gmail.com>
David Glasser <glasser@meteor.com>
David Howden <dhowden@gmail.com>
David Jakob Fritz <david.jakob.fritz@gmail.com>
David Leon Gil <coruus@gmail.com>
David McLeish <davemc@google.com>
David Presotto <presotto@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Symonds <dsymonds@golang.org>
David Thomas <davidthomas426@gmail.com>
David Titarenco <david.titarenco@gmail.com>
Davies Liu <davies.liu@gmail.com>
Dean Prichard <dean.prichard@gmail.com>
Denis Bernard <db047h@gmail.com>
Denis Brandolini <denis.brandolini@gmail.com>
Derek Buitenhuis <derek.buitenhuis@gmail.com>
Derek Che <drc@yahoo-inc.com>
Derek Parker <parkerderek86@gmail.com>
Devon H. O'Dell <devon.odell@gmail.com>
Dhiru Kholia <dhiru.kholia@gmail.com>
Didier Spezia <didier.06@gmail.com>
Dimitri Tcaciuc <dtcaciuc@gmail.com>
Dirk Gadsden <dirk@esherido.com>
Dmitri Shuralyov <shurcoOL@gmail.com>
Felix Geisendrefer <haimuiba@gmail.com>
Firmansyah Adiputra <frm.adiputra@gmail.com>
Florian Ueckermann <florian@ueckermann-online.de> <fl@ueckermann-online.de>
Florian Weimer <fw@deneb.enyo.de>
Florin Patan <florinpatan@gmail.com>
Folke Behrens <folke@google.com>
Ford Hurley <ford.hurley@gmail.com>
Francesc Campoy <campoy@golang.org>
Francisco Claude <fclaude@recoded.cl>
Francisco Souza <franciscossouza@gmail.com>
Frederick Kelly Mayle III <frederickmayle@gmail.com>
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Frithjof Schulze <schulze@math.uni-hannover.de> <sf@fredrik.enestad@soundtrackyourbrand.com>
Fumitoshi Ukai <ukai@gmail.com>
Gaia Yahas <gaia@gmail.com>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Garrick Evans <garrickgoogle.com>
Gary Burd <gary@beagledreams.com> <gary.burd@gmail.com>
Gaurish Sharma <contact@gaurishsharma.com>
Gautham Thambidorai <gautham.dorai@gmail.com>
Geert-Johan Riener <gjr19912@gmail.com>
Georg Reinke <guelfey@gmail.com>
George Shammas <george@shammas.net> <georgyo@gmail.com>
Gerasimos Dimitriadis <gedimit@gmail.com>
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
Giulio Iotti <dullgiulio@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Greg Ward <greg@gerg.ca>
Guillaume J. Charmes <guillaume@charmes.net>
Guobiao Mei <meiguobiao@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustavo Franco <gustavorfranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenaël Treguer <gwen.kahz@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Han-Wen Nienhuys <hanwen@google.com>
Hari haran <hariharan.uno@gmail.com>
Hariharan Srinath <srinath@gmail.com>
Harley Laue <losinggeneration@gmail.com>
Hvard Haugen <hvard.haugen@gmail.com>
Hector Chu <hectorchu@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
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258

Jonathan Nieder <jrn@google.com>
Jonathan Pittman <jmpittman@google.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Wills <runningwild@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Jos Visser <josv@google.com>
Jose Luis Vquez Gonzalez <josvazg@gmail.com>
Joseph Bonneau <jcb@google.com>
Joseph Holsten <joseph@josephholsten.com>
Josh Bleecher Snyder <josharian@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@google.com>
Josh Holland <jrh@joshh.co.uk>
Joshua Chase <jchuauchase@gmail.com>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jpsugar@gmail.com>
JT Olds <jtolds@xnet5.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julien Schmidt <google@julienschmidt.com>
Jungho Ahn <jahn@google.com>
Justin Nu <nuss.justin@gmail.com>
Kai Backman <kaib@golang.org>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kang Hu <hukangustc@gmail.com>
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>
Katrina Owen <katrina.owen@gmail.com>
Kay Zhu <kayzhu@gmail.com>
KB Sriram <kbsriram@gmail.com>
Kei Son <hey.calmdown@gmail.com>
Keith Ball <inflatablewoman@gmail.com>
Keith Randall <khr@golang.org>
Keith Rarick <kr@xph.us>
Kelsey Hightower <kelsey.hightower@gmail.com>
Kelvin Foo Chuan Lyi <vmirage@gmail.com>
Ken Friedenbach <kenliz@cruzio.com>
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>
Ken Sedgwick <ken@bonsai.com>
Ken Thompson <ken@golang.org>
Kenny Grant <kennygrant@gmail.com>
Kevin Ballard <kevin@sb.org>
Kevin Klues <klueska@gmail.com> <klueska@gmail.com>
Kevin Malachowski <chowski@gmail.com>
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Kristopher Watts <traetox@gmail.com>
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Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Larry Hosken <lahosken@golang.org>
Larz Conwell <larzconwell@gmail.com>
Lee Packham <lpackham@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@google.com>
Luca Greco <luca.greco@alcacoop.it>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajec <tr00.g33k@gmail.com>
Luke Curley <qpingu@gmail.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Mal Curtis <mal@mal.co.nz>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Manu Garg <manugarg@google.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <nmendez534@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marcel van Lohuizen <mpvl@golang.org>
Marco Hennings <marco.hennings@freheit.com>
Marga Manterola <marga@google.com>
Marius Nuennerich <mnu@google.com>
Mark Bucciarelli <mkbucc@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Zavislak <zavislak@gmail.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Mikulicic <mkm@google.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Martin Mohrmann <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsson <martin@minimum.se>
Marvin Stenger <marvin.stenger94@gmail.com>
Mateusz Czapinski <czapkofan@gmail.com>
Mathias Beke <git@denbeke.be>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Drollette <matt@drollette.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@google.com>
Matt Layher <mdlayher@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <mdempsky@google.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matt.horsnell@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@google.com>
Maxim Ushakov <ushakov@google.com>
Meir Fischer <meirfischer@gmail.com>
Meng Zhuo <mengzhuo1203@gmail.com>
Mhd Sulhan <m.shulhan@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Michael Chaten <mchaten@gmail.com>
Michael Elkins <michael.elkins@gmail.com>
Michael Fraenkel <michael.fraenkel@gmail.com>
Michael Gehring <mg@ebfe.org> <gnirheg.alehcin@gmail.com>
Michael Hoisie <hoisie@gmail.com>
Michael Hudson-Doyle <michael.hudson@linaro.org>
Michael Kufl <golang@c.michael-kaefl.de>
Michael Kelly <mjk@google.com>
Michael Lewis <mikelikespie@gmail.com>
Michael MacInnis <Michael.P.MacInnis@gmail.com>
Michael Marineau <michael.marineau@coreos.com>
Michael Matloob <matloob@google.com>
Michael McGrevey <mcgrevey@golang.org>
Michael Pearson <mipearson@gmail.com>
Michael Piatek <piatek@google.com>
Michael Schaller <michael@5challer.de>
Michael Shields <mshields@google.com>
Michael Stapelberg <michael@stapelberg.de> <mstplbrg@gogmeil.com>
Michael T. Jones <mjt@google.com> <michael.jones@gmail.com>
Michael Teichgraber <mteichgraebener@gmx.de> <mtn4swm@googlemail.com>
Michael Vetter <g.bluehut@gmail.com>
Michal Bohuslavek <mbohuslavek@gmail.com>
Michal Cierniak <cierniak@gmail.com>
Micha Derkacz <ziutek@inet.pl>
Michalis Kargakis <michaliskargakis@gmail.com>
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mikael Tillenius <mikti42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Rosset <mike.rosset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Mike Solomon <msolo@gmail.com>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeka <miki.tebeka@gmail.com>
Mikio Hara <mikioh.mikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Mohit Agarwal <mohit@sdf.org>
Moriyoshi Koizumi <mozo@mozo.jp>
Mshe van der Sterre <moshevds@gmail.com>
Mrunal Patel <mrunalp@gmail.com>
Nan Deng <nonnand@gmail.com>
Nathan John Youngman <nj@nathany.com>
Nathan Otterness <otternes@cs.unc.edu>
Nathan P Finch <nate.finch@gmail.com>
Nathan VanBenschoten <nvabanbenschoten@gmail.com>
Nathan Youngman <git@nathany.com>
Nathan(yinian) Hu <nathanhu@google.com>
Neelesh Chandola <neelesh.e98@gmail.com>
Nevsins Bartolomeo <nevsins.bartolomeo@gmail.com>
Nicholas Katsaros <nick@nickkatsaros.com>
Nicholas Presta <nick@nickpresta.ca> <nick1presta@gmail.com>
Nicholas Sullivan <nicholas.sullivan@gmail.com>
Nicholas Waples <nwaples@gmail.com>
Nick Cooper <nmvc@google.com>
Nick Craig-Wood <nick@craig-wood.com> <nickcw@gmail.com>
Nicolas Kaiser <nikai@nikai.net>
Nicolas Owens <mischief@offblast.org>
Nicolas S. Dade <nic.dade@gmail.com>
Nigel Kerr <nigel.kerr@gmail.com>
Nigel Tao <nigeltao@golang.org>
Nikolay Turpitko <nikolay@turpitko.com>
Noah Campbell <noahcampbell@gmail.com>
Nodir Turakulov <nodir@google.com>
Norberto Lopes <nlopes.ml@gmail.com>
Oleku Konko <oleku.konko@gmail.com>
Oling Cat <olingcat@gmail.com>
Oliver Hookins <ohookins@gmail.com>
Oliver Antoine <olivier.antoine@gmail.com>
Oliver Dupray <dupray.olivier@gmail.com>
Oliver Saingre <osaingre@gmail.com>
Padraig Kitterick <padraigkitterick@gmail.com>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Preetam Jinka <pj@preet.am>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qperez@ocs.online.net>
Quoc-Viet Nguyen <afelion@gmail.com>
Rahul Chaudhry <rahulchaudhry@chromium.org>
Raif S. Naffah <go@naffah-raif.name>
Rajat Goel <rajat.goel2010@gmail.com>
Ralph Corderoy <ralph@inputplus.co.uk>
Raph Levien <raph@google.com>
Raul Silvera <rsilvera@google.com>
Reinaldo de Souza Jr <reinioz@gmail.com>
Remy Oudompheng <oudomph@phare.normalesup.org> <remyoudompheng@gmail.com>
Richard Barnes <rjb@ipv.sx>
Richard Crowley <rcrowley.org>
Richard Eric Gavaletz <gavaletz@gmail.com>
Richard Musiol <mail@richard-musiol.de> <neelance@gmail.com>
Rick Arnold <rickarnoldjr@gmail.com>
Rick Hudson <rlh@golang.org>
Risto Jaakko Saarelma <rsaarelma@gmail.com>
Rob Earhart <earhart@google.com>
Rob Norman <rob.norman@infinitycloud.com>
Rob Pike <r@golang.org>
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au>
Robert Dinu <r@varp.se>
Robert Figueiredo <robfig@gmail.com>
Robert Griesemer <gri@golang.org>
Robert Hencke <robert.hencke@gmail.com>
Robert Iannucci <iannucci@gmail.com>
Robert Obryk <robyrk@gmail.com>
Robert Sesek <rsesek@gmail.com>
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Robert Stepanek <robert.stepanek@gmail.com>
Robin Eklind <r.eklind.87@gmail.com>
Rodrigo Moraes de Oliveira <rodrigo.moraes@gmail.com>
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1.47 go-curve25519 1.6

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1.48 go-dockerclient 0.1
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1.54 go-winio 0.3.5-2 :gce2922f

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1.57 gojsonreference 1.0

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1.62 HikariCP 3.1.0

1.63 historian 0.20.1
1.64 http-dart 0.11.3+9

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1.65 http_multi_server 2.0.3

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1.66 http_server-dart 0.9.6

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1.67 intI 0.15.0
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1.70 jackson-databind 2.9.9.3

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1.71 jackson-databind 2.8.10

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1.72 jackson-dataformat-msgpack 0.8.16

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  <settings default="msgpack">
    <LanguageOptions name="JAVA">
      <option name="fileTypeOverride" value="3" />
      <option name="addBlankAfter" value="false" />
      <option name="block" value="false" />
      <option name="prefixLines" value="false" />
    </LanguageOptions>
    <LanguageOptions name="Scala">
      <option name="fileTypeOverride" value="3" />
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      <option name="block" value="false" />
      <option name="prefixLines" value="false" />
    </LanguageOptions>
    <LanguageOptions name="__TEMPLATE__">
      <option name="addBlankAfter" value="false" />
    </LanguageOptions>
  </settings>
  <component name="CopyrightManager">
    <copyright>
      <option name="allowReplaceKeyword" value="" />
      <option name="myName" value="msgpack" />
      <option name="keyword" value="MessagePack for Java" />
      <option name="notice" value="Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License." />
    </copyright>
  </component>
  <component name="CopyrightManager">
    <option name="allowReplaceKeyword" value="" />
    <option name="myName" value="msgpack" />
    <option name="keyword" value="MessagePack for Java" />
    <option name="notice" value="Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License." />
  </component>
</component>
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1.73 jcommander 1.72

1.74 jdbc-postgres 8.4.702
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1.89 oauth-dart 1.2.1

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<div>
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</div>
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<li>ResultSetMetaData information based on the V3 protocol</li>
</ul>
<li>Jaroslaw J. Pyszny</li>
<ul>
<li>Improve MetaData regarding the serial datatype</li>
</ul>
<li>Ulrich Meis</li>
<ul>
<li>Allow users to customize the SSL connection</li>
</ul>
<li>Xavier Poinsard</li>
<ul>
<li>Standard escaped functions {fn ...() }</li>
</ul>
Oliver Siegmar
<ul><li>Support for infinity in the timestamp datatype</li><li>Make PGInterval able to decode and manipulate interval data</li></ul>

Michael Barker
<ul><li>Blob write and position methods.</li></ul>

Andras Kadinger
<ul><li>Support asynchronous notification retrieval.</li></ul>

Heikki Linnakangas
<ul><li>XADatasource implementation.</li></ul>

Luis Vilar Flores
<ul><li>Reduce memory usage retrieving bytea data.</li></ul>

Michael Paesold
<ul><li>Correctly parse dollar quotes and comments.</li><li>Work with standard_conforming_strings = on.</li></ul>

Mikko Tiilinen
<ul><li>Improve speed of parsing ResultSet data.</li></ul>

Marek Lewczuk
<ul><li>Support multi-dimensional arrays and NULL array elements.</li></ul>
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1.97 pub_semver 1.3.2

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1.98 quiver-dart 0.22.0

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1.100 runc 1.0.0-rc1-218 :ga2a6e82

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1.101 runtime_shared 0.20.1

1.102 sanitized_anchor_name 0.1
:10ef21a441db47d8b13ebcc5fd2310f636973c7

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1.103 sdk-dslink-dart 1.0.2

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```

```dart
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 (idMatchs.containsKey(responder.reqId)) {
        return idMatchs[responder.reqId];
    }

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

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

1.104 slf4j-api 1.7.25
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1.105 sqlite-amalgamation 3.26.0
1.106 stack_trace 1.7.3

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1.107 Statemachine master

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1.108 stich-dart 0.2.0+4

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1.109 system_info 0.0.16

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**1.110 tcmalloc (including perf tools and libunwind) 2.4.91**

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1.111 toml.dart 0.4.0

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1.112 typed_data 1.1.3

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1.115 yajl-2.0.1 2.0.1

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1.116 yaml 2.1.7
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1.117 yamlicious 0.0.5

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1.118 zlib 1.2.11

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