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* and affix compression in general, please see:
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* (the home page for ispell)
* An almost complete rewrite of MySpell for use by
* the Mozilla project has been developed by David Einstein
* (Deinst@world.std.com). David and I are now
* working on parallel development tracks to help
* our respective projects (Mozilla and OpenOffice.org
* and we will maintain full affix file and dictionary
* file compatibility and work on merging our versions
* of MySpell back into a single tree. David has been
* a significant help in improving MySpell.
* Special thanks also go to La'szlo' Ne'meth
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1.6 libjson 7.6.1 1.6.1 Available under license :

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1.7 libsrtp 1.5.4

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Wrapper for Microsoft lib.exe

me=ar-lib scriptversion=2012-03-01.08; # UTC

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1.9 log4cxx 0.10.0 1.9.1 Available under license :

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/*

* A 64-bit implementation of the NIST P-256 elliptic curve point multiplication *

* OpenSSL integration was taken from Emilia Kasper's work in ecp_nistp224.c.

* Otherwise based on Emilia's P224 work, which was inspired by my curve25519

* work which got its smarts from Daniel J. Bernstein's work on the same.

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/* e_os.h */

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1.14 qca 2.0.3

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'zlib' general purpose compression library version 1.2.3, July 18th, 2005

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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The code in this library is an extension of Bala Vatti's clipping algorithm: "A generic solution to polygon clipping" Communications of the ACM, Vol 35, Issue 7 (July 1992) pp 56-63. http://portal.acm.org/citation.cfm?id=129906

Computer graphics and geometric modeling: implementation and algorithms By Max K. Agoston Springer; 1 edition (January 4, 2005) http://books.google.com/books?q=vatti+clipping+agoston

See also:

"Polygon Offsetting by Computing Winding Numbers" Paper no. DETC2005-85513 pp. 565-575 ASME 2005 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference (IDETC/CIE2005) September 24-28, 2005 , Long Beach, California, USA http://www.me.berkeley.edu/~mcmains/pubs/DAC05OffsetPolygon.pdf

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```
//
```

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// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/container for documentation.
//

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP #define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <boost/intrusive/detail/mpl.hpp>

#include <cstddef>

namespace boost { namespace container { namespace container_detail {

using boost::move_detail::integral_constant; using boost::move_detail::true_type; using boost::move_detail::false_type; using boost::move_detail::enable_if_c; using boost::move_detail::enable_if; using boost::move_detail::enable_if_convertible; using boost::move_detail::disable_if_c; using boost::move_detail::disable_if; using boost::move_detail::disable_if_convertible; using boost::move_detail::is_convertible; using boost::move_detail::if_c; using boost::move_detail::if_; using boost::move_detail::identity; using boost::move_detail::bool_; using boost::move_detail::true_; using boost::move_detail::false_; using boost::move_detail::yes_type; using boost::move_detail::no_type;

```
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_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); }
};
```

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

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

```
#endif //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
//
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//
//
     http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/intrusive for documentation.
//
______
```

```
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP
```

#ifndef BOOST_CONFIG_HPP
include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
pragma once
#endif

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

namespace boost {
namespace intrusive {
namespace detail {

using boost::move detail::is same; using boost::move_detail::add_const; using boost::move_detail::remove_const; using boost::move detail::remove cv; using boost::move_detail::remove_reference; using boost::move_detail::add_reference; using boost::move detail::remove pointer; using boost::move_detail::add_pointer; using boost::move_detail::true_type; using boost::move detail::false type; using boost::move_detail::enable_if_c; using boost::move_detail::enable_if; using boost::move detail::disable if c; using boost::move_detail::disable_if; using boost::move_detail::is_convertible; using boost::move_detail::if_c; using boost::move_detail::if_; using boost::move_detail::is_const; using boost::move_detail::identity; using boost::move_detail::alignment_of; using boost::move_detail::is_empty; using boost::move_detail::addressof; using boost::move_detail::integral_constant; using boost::move_detail::enable_if_convertible; using boost::move_detail::disable_if_convertible; using boost::move_detail::bool_; using boost::move_detail::true_; using boost::move_detail::false_; using boost::move_detail::yes_type; using boost::move_detail::no_type; using boost::move_detail::apply;

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

```
//
```

```
#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)
 template <typename T, typename DefaultType>
 struct boost_intrusive_eval_default_type_ ## TNAME
                                                         \
 {
   template <typename X>
   static char test(int, typename X::TNAME*);
   template <typename X>
                                               /
   static int test(...);
   struct DefaultWrap
   { typedef typename DefaultType::type TNAME; };
   static const bool value = (1 = sizeof(test < T > (0, 0))); \land
   typedef typename
    ::boost::intrusive::detail::eval_if_c
                                               \
      < value
      , ::boost::intrusive::detail::identity<T>
      , ::boost::intrusive::detail::identity<DefaultWrap> \
      >::type::TNAME type;
 };
//
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL) \
   typename INSTANTIATION_NS_PREFIX
    boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type
//
#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX,
TYPEDEF_TO_FIND) \
template <class T>\
struct TRAITS_PREFIX##_bool\
{\
 template<bool Add>\
 struct two_or_three {yes_type _[2 + Add];};\
 template <class U> static yes_type test(...);\
 template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\
 static const std::size_t value = sizeof(test<T>(0));\
};\
\
template <class T>\setminus
struct TRAITS_PREFIX##_bool_is_true\
{\
 static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\
```

};\ //

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

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

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

```
#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME,
FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)
\
template <typename Type, class> \
struct TRAITS_NAME \
: public TRAITS_NAME##_ignore_signature<Type> \
{};\
//
} //namespace detail
} //namespace intrusive
```

} //namespace boost

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

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
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Attributions:

The code in this library is an extension of Bala Vatti's clipping algorithm: "A generic solution to polygon clipping" Communications of the ACM, Vol 35, Issue 7 (July 1992) pp 56-63. http://portal.acm.org/citation.cfm?id=129906

Computer graphics and geometric modeling: implementation and algorithms By Max K. Agoston Springer; 1 edition (January 4, 2005) http://books.google.com/books?q=vatti+clipping+agoston

See also:

"Polygon Offsetting by Computing Winding Numbers"
Paper no. DETC2005-85513 pp. 565-575
ASME 2005 International Design Engineering Technical Conferences
and Computers and Information in Engineering Conference (IDETC/CIE2005)
September 24-28, 2005 , Long Beach, California, USA
http://www.me.berkeley.edu/~mcmains/pubs/DAC05OffsetPolygon.pdf
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* Small optimizations to Python serialization.

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* VI syntax highlighting tweaks.

* Fix compiler to not make output executable.

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* Heuristic detection of sub-messages when printing unknown fields in text format.

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* Added @Override annotation to generated Java code where appropriate.

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* Tru64 support.

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* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

* Slicing support for repeated scalar fields for the Python API.

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- * MS Visual Studio error format option.
- * Detect unordered_map in stl_hash.m4.

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* gzip/zlib I/O support.

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- * Fixed warnings about generated constructors not explicitly initializing
- all fields (only present with certain compiler settings).
- * Added generation of field number constants.

Wink Saville <wink@google.com>

* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

- * Detect whether zlib is new enough in configure script.
- * Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

- * Optimize Java serialization code when writing a small message to a stream.
- * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- * Clean up some Java warnings.
- * Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>

- * Fixed detection of sched_yield on Solaris.
- * Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

- * Fixed minor IBM xIC compiler build issues
- * Added atomicops for AIX (POWER)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law. If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at

least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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Changes to make C version usable with C++ applications; re-implemented mutex routines to avoid Win32 mutexes and TryEnterCriticalSection; procedure to fix Mingw32 thread-safety issues. Franco Bez franco dot bez at gmx dot de procedure to fix Mingw32 thread-safety issues. Louis Thomas Ithomas at arbitrade dot com (with Alexander Terekhov) re-implemented and improved condition variables. David Korn dgk at research dot att dot com Ported to UWIN. Phil Frisbie, Jr. phil at hawksoft dot com Bug fix. Ralf Brese Ralf dot Brese at pdb4 dot siemens dot de Bug fix. prionx at juno dot com prionx at juno dot com Bug fixes. Max Woodbury mtew at cds dot duke dot edu POSIX versioning conditionals; reduced namespace pollution; idea to separate routines to reduce statically linked image sizes. Rob Fanner rfanner at stonethree dot com Bug fix. Michael Johnson michaelj at maine dot rr dot com Bug fix. Nicolas Barry boozai at yahoo dot com Bug fixes. Piet van Bruggen pietvb at newbridges dot nl Bug fix. Makoto Kato raven at oldskool dot jp AMD64 port. Panagiotis E. Hadjidoukas peh at hpclab dot ceid dot upatras dot gr Contributed the QueueUserAPCEx package which makes preemptive async cancelation possible. Will Bryant will dot bryant at ecosm dot com Borland compiler patch and makefile. Anuj Goyal anuj dot goyal at gmail dot com Port to Digital Mars compiler. Gottlob Frege gottlobfrege at gmail dot com re-implemented pthread_once (version 2) (pthread_once cancellation added by rpj). Vladimir Kliatchko vladimir at kliatchko dot com reimplemented pthread_once with the same form as described by A.Terekhov (later version 2); implementation of MCS (Mellor-Crummey/Scott) locks. Copyright 2006-2011, the V8 project authors. All rights reserved. Redistribution and use in source and binary forms, with or without

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...

Updates all copyright headers within our code:

- For files that already have a copyright header, the header is modified while keeping the year and holder intact.

- For files that don't have a copyright header, we add one with the current year and default holder.

@author: epoger@google.com

import os import sys

import fileparser

Only modify copyright stanzas if the copyright holder is one of these. ALLOWED_COPYRIGHT_HOLDERS = ['Google Inc.', 'Skia', 'The Android Open Source Project',

```
]
```

```
def Main(root_directory):
 """Run everything.
  @param root_directory root directory within which to modify all files
  .....
 filepaths = GetAllFilepaths(root_directory)
 for filepath in filepaths:
    parser = fileparser.CreateParser(filepath)
    if not parser:
      ReportWarning('cannot find a parser for file %s, skipping...' %
               filepath)
      continue
    old_file_contents = ReadFileIntoString(filepath)
    comment blocks = parser.FindAllCommentBlocks(old file contents)
    if not comment_blocks:
      ReportWarning('cannot find any comment blocks in file %s' %
               filepath)
    old_copyright_block = parser.FindCopyrightBlock(comment_blocks)
    if not old copyright block:
      ReportWarning('cannot find copyright block in file %s' % filepath)
    (year, holder) = parser.GetCopyrightBlockAttributes(old_copyright_block)
    if holder and not ConfirmAllowedCopyrightHolder(holder):
      ReportWarning(
         'unrecognized copyright holder "%s" in file %s, skipping...' % (
           holder, filepath))
      continue
    new_copyright_block = parser.CreateCopyrightBlock(year, holder)
    if old_copyright_block:
      new_file_contents = old_file_contents.replace(
         old_copyright_block, new_copyright_block, 1)
    else:
      new_file_contents = new_copyright_block + old_file_contents
    WriteStringToFile(new_file_contents, filepath)
def GetAllFilepaths(root_directory):
 """Return a list of all files (absolute path for each one) within a tree.
  @param root_directory root directory within which to find all files
  .....
 path_list = []
 for dirpath, dirnames, filenames in os.walk(root_directory):
    for filename in filenames:
      path_list.append(os.path.abspath(os.path.join(dirpath, filename)))
 return path_list
def ReportWarning(text):
```

```
"""Report a warning, but continue.
```

```
print 'warning: %s' % text
```

def ReportError(text):

"""Report an error and raise an exception.

```
.....
```

.....

raise IOError(text)

```
def ReadFileIntoString(filepath):
```

"""Returns the full contents of this file as a string.

```
.....
```

with open(filepath, 'r') as file_handle: contents = file_handle.read()
return contents

def WriteStringToFile(string, filepath):

```
"""Writes this string out to filepath, replacing the file if it already exists.
```

.....

with open(filepath, 'w') as file_handle: file_handle.write(string)

def ConfirmAllowedCopyrightHolder(holder):

"""Returns True if this is one of our allowed copyright holders.

@param holder copyright holder as a string

.....

```
return holder in ALLOWED_COPYRIGHT_HOLDERS
```

Main(sys.argv[1])

```
•••
```

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import datetime import re

def CreateParser(filepath):

"""Returns a Parser as appropriate for the file at this filepath.

if (filepath.endswith('.cpp') or filepath.endswith('.h') or filepath.endswith('.c')):

```
return CParser()
 else:
    return None
class Parser(object):
 """Base class for all language-specific parsers.
 .....
 def init (self):
    self._copyright_pattern = re.compile('copyright', re.IGNORECASE)
    self._attribute_pattern = re.compile(
      'copyright.*D(d{4})W*(w.*[w.])', re.IGNORECASE)
 def FindCopyrightBlock(self, comment_blocks):
    """Given a list of comment block strings, return the one that seems
    like the most likely copyright block.
    Returns None if comment_blocks was empty, or if we couldn't find
    a comment block that contains copyright info."""
    if not comment blocks:
      return None
    for block in comment_blocks:
      if self._copyright_pattern.search(block):
         return block
 def GetCopyrightBlockAttributes(self, comment_block):
    """Given a comment block, return a tuple of attributes: (year, holder).
    If comment_block is None, or none of the attributes are found,
    this will return (None, None)."""
    if not comment block:
      return (None, None)
    matches = self._attribute_pattern.findall(comment_block)
    if not matches:
      return (None, None)
    first_match = matches[0]
    return (first_match[0], first_match[1])
class CParser(Parser):
 """Parser that knows how to parse C/C++ files.
 .....
 DEFAULT_YEAR = datetime.date.today().year
 DEFAULT_HOLDER = 'Google Inc.'
 COPYRIGHT_BLOCK_FORMAT = "
/*
```

```
Open Source Used In UC-One Communicator Desktop 22.7.0v02
363
```

```
* Copyright %s %s
* Use of this source code is governed by a BSD-style license that can be
* found in the LICENSE file.
*/
...
 def __init__(self):
    super(CParser, self).__init__()
   self._comment_pattern = re.compile('/\*.*?\*/', re.DOTALL)
 def FindAllCommentBlocks(self, file_contents):
    """Returns a list of all comment blocks within these file contents.
   .....
   return self._comment_pattern.findall(file_contents)
 def CreateCopyrightBlock(self, year, holder):
    """Returns a copyright block suitable for this language, with the
   given attributes.
    @param year year in which to hold copyright (defaults to DEFAULT YEAR)
    @param holder holder of copyright (defaults to DEFAULT_HOLDER)
    .....
   if not year:
      year = self.DEFAULT_YEAR
   if not holder:
      holder = self.DEFAULT HOLDER
   return self.COPYRIGHT_BLOCK_FORMAT % (year, holder)
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does. 1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License. However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

<one line to give the library's name and a brief idea of what it does.> Copyright (C) <year> <name of author>

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

You should also get your employer (if you work as a programmer) or your

school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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

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

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things. To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

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

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

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

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

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

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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* MODP_B64 - High performance base64 encoder/decoder

* Version 1.3 -- 17-Mar-2006

* http://modp.com/release/base64

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index 853a985..f3da03e 100644
--- a/third_party/ply/__init__.py
+++ b/third_party/ply/__init__.py
@@-1,4+1,36@@
# PLY package
# Author: David Beazley (dave@dabeaz.com)
+# -----
+# ply: yacc.py
+#
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> C++ Big Integer Library (see ChangeLog for version)

http://mattmccutchen.net/bigint/

Written and maintained by Matt McCutchen <matt@mattmccutchen.net>

You can use this library in a C++ program to do arithmetic on integers of size limited only by your computer's memory. The library provides BigUnsigned and BigInteger classes that represent nonnegative integers and signed integers, respectively. Most of the C++ arithmetic operators are overloaded for these classes, so big-integer calculations are as easy as:

#include "BigIntegerLibrary.hh"

BigInteger a = 65536; cout << (a * a * a);

(prints 340282366920938463463374607431768211456)

The code in `sample.cc' demonstrates the most important features of the library. To get started quickly, read the code and explanations in that file and run it. If you want more detail or a feature not shown in `sample.cc', consult the consult the actual header and source files, which are thoroughly commented.

This library emphasizes ease of use and clarity of implementation over speed; some users will prefer GMP (http://swox.com/gmp/), which is faster. The code is intended to be reasonably portable across computers and modern C++ compilers; in particular, it uses whatever word size the computer provides (32-bit, 64-bit, or otherwise).

Compiling programs that use the library

The library consists of a folder full of C++ header files (`.hh') and source files (`.cc'). Your own programs should `#include' the necessary header files and link with the source files. A makefile that builds the sample program (`sample.cc') is included; you can adapt it to replace the sample with your own program.

Alternatively, you can use your own build system or IDE. In that case, you must put the library header files where the compiler will find them and arrange to have your program linked with the library source files; otherwise, you will get errors about missing header files or "undefined references". To learn how to do this, consult the documentation for the build system or IDE; don't bother asking me. Adding all the library files to your project will work in many IDEs but may not be the most desirable approach.

Resources

The library's Web site (above) provides links to released versions, the current development version, and a mailing list for release announcements, questions, bug reports, and other discussion of the library. I would be delighted to hear from you if you like this library and/or find a good use for it.

Bugs and enhancements

The library has been tested by me and others but is by no means bug-free. If you find a bug, please report it, whether it comes in the form of compiling trouble, a mathematically inaccurate result, or a memory-management blooper (since I use Java, these are altogether too common in my C++). I generally fix all reported bugs. You are also welcome to request enhancements, but I am unlikely to do substantial amounts of work on enhancements at this point.

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

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

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* Written by Wilco Dijkstra, 1996. The following email exchange establishes the

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*

```
* From: Wilco Dijkstra < Wilco.Dijkstra@ntlworld.com>
```

```
* Date: Fri, Jun 24, 2011 at 3:20 AM
```

* Subject: Re: sqrt routine

```
* To: Kevin Ma <kma@google.com>
```

* Hi Kevin,

- * Thanks for asking. Those routines are public domain (originally posted to
- * comp.sys.arm a long time ago), so you can use them freely for any purpose.
- * Cheers,

* Wilco

*

* ----- Original Message -----

* From: "Kevin Ma" <kma@google.com>

* To: <Wilco.Dijkstra@ntlworld.com>

* Sent: Thursday, June 23, 2011 11:44 PM

* Subject: Fwd: sqrt routine

* Hi Wilco,

* I saw your sqrt routine from several web sites, including

* http://www.finesse.demon.co.uk/steven/sqrt.html.

* Just wonder if there's any copyright information with your Successive

* approximation routines, or if I can freely use it for any purpose.

* Thanks.

* Kevin

*/

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modules/audio_coding/codecs/g711/main/source/g711.c modules/audio_coding/codecs/g711/main/source/g711.h

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* It is also implicitly understood that bug fixes and improvements

* should make their way back to the general Internet community so

* that everyone benefits.

*/

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License:

/*

* \$Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche \$

* Portable Audio I/O Library

* Memory barrier utilities

*

* Author: Bjorn Roche, XO Audio, LLC

*

* This program uses the PortAudio Portable Audio Library.

* For more information see: http://www.portaudio.com

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/*

- * \$Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche \$
- * Portable Audio I/O Library
- * Ring Buffer utility.
- *
- * Author: Phil Burk, http://www.softsynth.com
- * modified for SMP safety on Mac OS X by Bjorn Roche
- * modified for SMP safety on Linux by Leland Lucius
- * also, allowed for const where possible
- * modified for multiple-byte-sized data elements by Sven Fischer
- *
- * Note that this is safe only for a single-thread reader and a
- * single-thread writer.
- *

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Source:

http://msdn.microsoft.com/en-us/cc300389.aspx#P

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"""Generates license HTML for a prebuilt version of WebRTC for iOS."""

import sys

import argparse

import cgi import fnmatch import os import re import textwrap

}

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SCRIPT_DIR = os.path.dirname(os.path.realpath(sys.argv[0])) CHECKOUT_ROOT = os.path.abspath(os.path.join(SCRIPT_DIR, os.pardir, os.pardir, os.pardir)) TALK_ROOT = os.path.join(CHECKOUT_ROOT, 'talk') WEBRTC_ROOT = os.path.join(CHECKOUT_ROOT, 'webrtc')

def GetWebRTCGypFilePaths(): gyp_filepaths = [] search_roots = [TALK_ROOT, WEBRTC_ROOT] for search_root in search_roots: for root, _, filenames in os.walk(search_root): for filename in fnmatch.filter(filenames, '*.gyp*'): gyp_filepaths.append(os.path.join(root, filename)) return gyp_filepaths

def GetWebRTCTargetNames(): gyp_filepaths = GetWebRTCGypFilePaths() target_names = [] for gyp_filepath in gyp_filepaths: with open(gyp_filepath, 'r') as gyp_file: for line in gyp_file: match = re.search(r'\'target_name\'.*\'(\w+)\", line) if match: target_name = match.group(1) target_names.append(target_name) return target_names class LicenseBuilder(object):

def __init__(self):
 self.webrtc_target_names = GetWebRTCTargetNames()

def IsWebRTCLib(self, lib_name):
 alternate_lib_name = 'lib' + lib_name
 return (lib_name in self.webrtc_target_names or
 alternate_lib_name in self.webrtc_target_names)

def GenerateLicenseText(self, static_lib_dir, output_dir):
 # Get a list of libs from the files without their prefix and extension.
 static_libs = []
 for static_lib in os.listdir(static_lib_dir):
 # Skip non libraries.
 if not (static_lib.endswith('.a') and static_lib.startswith('lib')):
 continue
 # Extract library name.
 static_libs.append(static_lib[3:-2])

Generate amalgamated list of libraries. Mostly this just collapses the # various WebRTC libs names into just 'webrtc'. Will exit with error if a # lib is unrecognized. license_libs = set() for static_lib in static_libs: license_lib = 'webrtc' if self.IsWebRTCLib(static_lib) else static_lib license_path = LIB_TO_LICENSES_DICT.get(license_lib) if license_path is None: print 'Missing license path for lib: %s' % license_lib return 1 license libs.add(license lib)

Put webrtc at the front of the list.
assert 'webrtc' in license_libs
license_libs.remove('webrtc')
license_libs = sorted(license_libs)

```
license_libs.insert(0, 'webrtc')
```

```
# Generate HTML.
```

```
output_license_file = open(os.path.join(output_dir, 'LICENSE.html'), 'w+')
output_license_file.write('<!DOCTYPE html>\n')
output_license_file.write('<html>\n<head>\n')
output_license_file.write('<meta charset="UTF-8">\n')
output_license_file.write('<title>Licenses</title>\n')
style_tag = textwrap.dedent("'\
<style>
```

body { margin: 0; font-family: sans-serif; }
pre { background-color: #eeeeee; padding: 1em; white-space: pre-wrap; }
p { margin: 1em; white-space: nowrap; }
</style>
"")
output_license_file.write(style_tag)
output_license file.write('</head>\n')

for license_lib in license_libs: output_license_file.write('%s
>/p>\n' % license_lib) output_license_file.write('\n') for path in LIB_TO_LICENSES_DICT[license_lib]: license_path = os.path.join(CHECKOUT_ROOT, path) with open(license_path, 'r') as license_file: license_text = cgi.escape(license_file.read(), quote=True) output_license_file.write(license_text) output_license_file.write('\n') output_license_file.write('\n')

```
output_license_file.write('</body>\n')
output_license_file.write('</html>')
output_license_file.close()
return 0
```

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Commands to generate dependency files GEN_DEPS.c= \$(CC) -E -MM \$(DEFS) \$(CPPFLAGS) GEN_DEPS.cc= \$(CXX) -E -MM \$(DEFS) \$(CPPFLAGS)

Flags for position independent code SHAREDLIBCFLAGS = -fPIC SHAREDLIBCXXFLAGS = -fPIC SHAREDLIBCPPFLAGS = -DPIC

Additional flags when building libraries and with threads THREADSCPPFLAGS = -D_REENTRANT LIBCPPFLAGS =

Compiler switch to embed a runtime search path LD_RPATH= LD_RPATH_PRE= -Wl,-rpath,

Compiler switch to embed a library name LD_SONAME = -Wl,-soname -Wl,\$(notdir \$(MIDDLE_SO_TARGET))

Shared library options LD_SOOPTIONS= -Wl,-Bsymbolic

Shared object suffix
SO = so
Non-shared intermediate object suffix
STATIC_O = ao

Compilation rules %.\$(STATIC_O): \$(srcdir)/%.c \$(COMPILE.c) \$(STATICCPPFLAGS) \$(STATICCFLAGS) -o \$@ \$< %.o: \$(srcdir)/%.c \$(COMPILE.c) \$(DYNAMICCPPFLAGS) \$(DYNAMICCFLAGS) -o \$@ \$<</pre>

%.\$(STATIC_O): \$(srcdir)/%.cpp
\$(COMPILE.cc) \$(STATICCPPFLAGS) \$(STATICCXXFLAGS) -o \$@ \$<
%.o: \$(srcdir)/%.cpp
\$(COMPILE.cc) \$(DYNAMICCPPFLAGS) \$(DYNAMICCXXFLAGS) -o \$@ \$<</pre>

Dependency rules %.d: \$(srcdir)/%.c @echo "generating dependency information for \$<" @\$(SHELL) -ec '\$(GEN_DEPS.c) \$< \ | sed '\"s/\(\$*\)\.o[:]*/\1.0 \$@ : /g'\" > \$@; \ [-s \$@] || rm -f \$@' %.d: \$(srcdir)/%.cpp @echo "generating dependency information for \$<" @\$(SHELL) -ec '\$(GEN_DEPS.cc) \$< \ | sed '\"s/\(\$*\)\.o[:]*/\1.o \$@ : /g'\" > \$@; \ [-s \$@] || rm -f \$@'

Versioned libraries rules

%.\$(SO).\$(SO_TARGET_VERSION_MAJOR): %.\$(SO).\$(SO_TARGET_VERSION) \$(RM) \$@ && ln -s \${<F} \$@ %.\$(SO): %.\$(SO).\$(SO_TARGET_VERSION_MAJOR) \$(RM) \$@ && ln -s \${*F}.\$(SO).\$(SO_TARGET_VERSION) \$@

Bind internal references

LDflags that pkgdata will use BIR_LDFLAGS= -Wl,-Bsymbolic

Dependencies [i.e. map files] for the final library BIR_DEPS=

Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

End BSD-specific setup

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- *
- * An almost complete rewrite of MySpell for use by
- * the Mozilla project has been developed by David Einstein
- * (Deinst@world.std.com). David and I are now
- * working on parallel development tracks to help
- * our respective projects (Mozilla and OpenOffice.org
- * and we will maintain full affix file and dictionary
- * file compatibility and work on merging our versions
- * of MySpell back into a single tree. David has been
- * a significant help in improving MySpell.
- *
- * Special thanks also go to La'szlo' Ne'meth
- * <nemethl@gyorsposta.hu> who is the author of the
- * Hungarian dictionary and who developed and contributed
- * the code to support compound words in MySpell
- * and fixed numerous problems with the encoding
- * case conversion tables.
- *
- */

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chromium_audio

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curl

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Following applies to: ./test/mapstaticmethods.cpp ./test/schur real.cpp ./test/prec_inverse_4x4.cpp ./test/smallvectors.cpp ./test/redux.cpp ./test/special_numbers.cpp ./test/adjoint.cpp ./test/resize.cpp ./test/mixingtypes.cpp ./test/product_trmv.cpp ./test/sparse_solvers.cpp ./test/cholesky.cpp ./test/geo_quaternion.cpp ./test/miscmatrices.cpp ./test/stddeque.cpp ./test/integer_types.cpp ./test/product_large.cpp ./test/eigensolver_generic.cpp ./test/householder.cpp ./test/geo_orthomethods.cpp ./test/array_for_matrix.cpp ./test/sparseLM.cpp ./test/upperbidiagonalization.cpp

./test/nomalloc.cpp ./test/packetmath.cpp ./test/jacobisvd.cpp ./test/geo_transformations.cpp ./test/swap.cpp ./test/eigensolver_selfadjoint.cpp ./test/inverse.cpp ./test/product_selfadjoint.cpp ./test/product_trsolve.cpp ./test/product_extra.cpp ./test/sparse_solver.h ./test/mapstride.cpp ./test/mapped_matrix.cpp ./test/geo_eulerangles.cpp ./test/eigen2support.cpp ./test/denseLM.cpp ./test/stdvector.cpp ./test/nesting_ops.cpp ./test/sparse_permutations.cpp ./test/zerosized.cpp ./test/exceptions.cpp ./test/vectorwiseop.cpp ./test/cwiseop.cpp ./test/basicstuff.cpp ./test/product_trmm.cpp ./test/linearstructure.cpp ./test/sparse_product.cpp ./test/stdvector_overload.cpp ./test/stable_norm.cpp ./test/umeyama.cpp ./test/unalignedcount.cpp ./test/triangular.cpp ./test/product_mmtr.cpp ./test/sparse_basic.cpp ./test/sparse_vector.cpp ./test/meta.cpp ./test/real_qz.cpp ./test/ref.cpp ./test/eigensolver_complex.cpp ./test/cholmod_support.cpp ./test/conjugate_gradient.cpp ./test/sparse.h ./test/simplicial_cholesky.cpp ./test/bicgstab.cpp ./test/dynalloc.cpp ./test/product_notemporary.cpp ./test/geo_hyperplane.cpp ./test/lu.cpp

./test/qr.cpp ./test/hessenberg.cpp ./test/sizeof.cpp ./test/main.h ./test/selfadjoint.cpp ./test/permutationmatrices.cpp ./test/superlu_support.cpp ./test/qtvector.cpp ./test/geo_homogeneous.cpp ./test/determinant.cpp ./test/array_reverse.cpp ./test/unalignedassert.cpp ./test/stdlist.cpp ./test/product_symm.cpp ./test/corners.cpp ./test/dontalign.cpp ./test/visitor.cpp ./test/geo alignedbox.cpp ./test/diagonalmatrices.cpp ./test/product_small.cpp ./test/eigensolver_generalized_real.cpp ./test/umfpack_support.cpp ./test/first_aligned.cpp ./test/qr_fullpivoting.cpp ./test/array_replicate.cpp ./test/geo_parametrizedline.cpp ./test/eigen2/eigen2_unalignedassert.cpp ./test/eigen2/eigen2_prec_inverse_4x4.cpp ./test/eigen2/eigen2_alignedbox.cpp ./test/eigen2/eigen2_sparse_product.cpp ./test/eigen2/eigen2_meta.cpp ./test/eigen2/eigen2_nomalloc.cpp ./test/eigen2/eigen2_visitor.cpp ./test/eigen2/eigen2_packetmath.cpp ./test/eigen2/eigen2_svd.cpp ./test/eigen2/eigen2_mixingtypes.cpp ./test/eigen2/eigen2_qr.cpp ./test/eigen2/eigen2_cwiseop.cpp ./test/eigen2/eigen2_geometry_with_eigen2_prefix.cpp ./test/eigen2/eigen2_smallvectors.cpp ./test/eigen2/eigen2_commainitializer.cpp ./test/eigen2/eigen2_sparse_solvers.cpp ./test/eigen2/eigen2_hyperplane.cpp ./test/eigen2/eigen2_eigensolver.cpp ./test/eigen2/eigen2_linearstructure.cpp ./test/eigen2/eigen2_sizeof.cpp ./test/eigen2/eigen2_parametrizedline.cpp

./test/eigen2/eigen2_adjoint.cpp ./test/eigen2/eigen2_geometry.cpp ./test/eigen2/eigen2_stdvector.cpp ./test/eigen2/eigen2_newstdvector.cpp ./test/eigen2/eigen2_submatrices.cpp ./test/eigen2/sparse.h ./test/eigen2/eigen2_swap.cpp ./test/eigen2/eigen2_triangular.cpp ./test/eigen2/eigen2_basicstuff.cpp ./test/eigen2/gsl_helper.h ./test/eigen2/eigen2_dynalloc.cpp ./test/eigen2/eigen2_array.cpp ./test/eigen2/eigen2_map.cpp ./test/eigen2/main.h ./test/eigen2/eigen2_miscmatrices.cpp ./test/eigen2/eigen2_product_large.cpp ./test/eigen2/eigen2_first_aligned.cpp ./test/eigen2/eigen2 cholesky.cpp ./test/eigen2/eigen2_determinant.cpp ./test/eigen2/eigen2_sum.cpp ./test/eigen2/eigen2_inverse.cpp ./test/eigen2/eigen2_regression.cpp ./test/eigen2/eigen2_product_small.cpp ./test/eigen2/eigen2_qtvector.cpp ./test/eigen2/eigen2_sparse_vector.cpp ./test/eigen2/product.h ./test/eigen2/eigen2_sparse_basic.cpp ./test/eigen2/eigen2_bug_132.cpp ./test/array.cpp ./test/product_syrk.cpp ./test/commainitializer.cpp ./test/conservative_resize.cpp ./test/qr_colpivoting.cpp ./test/nullary.cpp ./test/bandmatrix.cpp ./test/pastix_support.cpp ./test/product.h ./test/block.cpp ./test/vectorization_logic.cpp ./test/jacobi.cpp ./test/diagonal.cpp ./test/schur_complex.cpp ./test/sizeoverflow.cpp ./bench/BenchTimer.h ./bench/benchFFT.cpp ./bench/eig33.cpp ./bench/spbench/spbenchsolver.h ./bench/spbench/spbenchstyle.h

./lapack/complex_double.cpp ./lapack/cholesky.cpp ./lapack/lapack_common.h ./lapack/eigenvalues.cpp ./lapack/single.cpp ./lapack/lu.cpp ./lapack/complex single.cpp ./lapack/double.cpp ./demos/mix_eigen_and_c/binary_library.cpp ./demos/mix eigen and c/binary library.h ./demos/mix_eigen_and_c/example.c ./demos/mandelbrot/mandelbrot.cpp ./demos/mandelbrot/mandelbrot.h ./demos/opengl/icosphere.cpp ./demos/opengl/icosphere.h ./demos/opengl/camera.cpp ./demos/opengl/quaternion_demo.h ./demos/opengl/camera.h ./demos/opengl/trackball.h ./demos/opengl/gpuhelper.h ./demos/opengl/trackball.cpp ./demos/opengl/gpuhelper.cpp ./demos/opengl/quaternion_demo.cpp ./debug/gdb/printers.py ./unsupported/test/minres.cpp ./unsupported/test/openglsupport.cpp ./unsupported/test/jacobisvd.cpp ./unsupported/test/dgmres.cpp ./unsupported/test/matrix_square_root.cpp ./unsupported/test/bdcsvd.cpp ./unsupported/test/matrix_exponential.cpp ./unsupported/test/forward_adolc.cpp ./unsupported/test/polynomialsolver.cpp ./unsupported/test/matrix function.cpp ./unsupported/test/sparse_extra.cpp ./unsupported/test/matrix_functions.h ./unsupported/test/svd_common.h ./unsupported/test/FFTW.cpp ./unsupported/test/alignedvector3.cpp ./unsupported/test/autodiff.cpp ./unsupported/test/gmres.cpp ./unsupported/test/BVH.cpp ./unsupported/test/levenberg_marquardt.cpp ./unsupported/test/matrix_power.cpp ./unsupported/test/kronecker_product.cpp ./unsupported/test/splines.cpp ./unsupported/test/polynomialutils.cpp ./unsupported/bench/bench_svd.cpp

./unsupported/Eigen/IterativeSolvers ./unsupported/Eigen/src/IterativeSolvers/DGMRES.h ./unsupported/Eigen/src/IterativeSolvers/IncompleteLU.h ./unsupported/Eigen/src/IterativeSolvers/GMRES.h ./unsupported/Eigen/src/IterativeSolvers/IncompleteCholesky.h ./unsupported/Eigen/src/IterativeSolvers/Scaling.h ./unsupported/Eigen/src/IterativeSolvers/MINRES.h ./unsupported/Eigen/src/SparseExtra/RandomSetter.h ./unsupported/Eigen/src/SparseExtra/MatrixMarketIterator.h ./unsupported/Eigen/src/SparseExtra/DynamicSparseMatrix.h ./unsupported/Eigen/src/SparseExtra/MarketIO.h ./unsupported/Eigen/src/SparseExtra/BlockOfDynamicSparseMatrix.h ./unsupported/Eigen/src/KroneckerProduct/KroneckerTensorProduct.h ./unsupported/Eigen/src/NonLinearOptimization/LevenbergMarquardt.h ./unsupported/Eigen/src/NonLinearOptimization/HybridNonLinearSolver.h ./unsupported/Eigen/src/BVH/BVAlgorithms.h ./unsupported/Eigen/src/BVH/KdBVH.h ./unsupported/Eigen/src/AutoDiff/AutoDiffScalar.h ./unsupported/Eigen/src/AutoDiff/AutoDiffJacobian.h ./unsupported/Eigen/src/AutoDiff/AutoDiffVector.h ./unsupported/Eigen/src/Splines/Spline.h ./unsupported/Eigen/src/Splines/SplineFitting.h ./unsupported/Eigen/src/Splines/SplineFwd.h ./unsupported/Eigen/src/SVD/JacobiSVD.h ./unsupported/Eigen/src/SVD/BDCSVD.h ./unsupported/Eigen/src/SVD/SVDBase.h ./unsupported/Eigen/src/MatrixFunctions/MatrixFunction.h ./unsupported/Eigen/src/MatrixFunctions/MatrixSquareRoot.h ./unsupported/Eigen/src/MatrixFunctions/MatrixLogarithm.h ./unsupported/Eigen/src/MatrixFunctions/StemFunction.h ./unsupported/Eigen/src/MatrixFunctions/MatrixPower.h ./unsupported/Eigen/src/MatrixFunctions/MatrixExponential.h ./unsupported/Eigen/src/MatrixFunctions/MatrixFunctionAtomic.h ./unsupported/Eigen/src/MoreVectorization/MathFunctions.h ./unsupported/Eigen/src/LevenbergMarquardt/LevenbergMarquardt.h ./unsupported/Eigen/src/FFT/ei fftw impl.h ./unsupported/Eigen/src/FFT/ei kissfft impl.h ./unsupported/Eigen/src/Polynomials/PolynomialSolver.h ./unsupported/Eigen/src/Polynomials/Companion.h ./unsupported/Eigen/src/Polynomials/PolynomialUtils.h ./unsupported/Eigen/src/NumericalDiff/NumericalDiff.h ./unsupported/Eigen/src/Skyline/SkylineProduct.h ./unsupported/Eigen/src/Skyline/SkylineMatrixBase.h ./unsupported/Eigen/src/Skyline/SkylineStorage.h ./unsupported/Eigen/src/Skyline/SkylineUtil.h ./unsupported/Eigen/src/Skyline/SkylineInplaceLU.h ./unsupported/Eigen/src/Skyline/SkylineMatrix.h ./unsupported/Eigen/SparseExtra

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./Eigen/src/Core/Visitor.h ./Eigen/src/Core/Map.h ./Eigen/src/Core/NoAlias.h ./Eigen/src/Core/Diagonal.h ./Eigen/src/Core/StableNorm.h ./Eigen/src/Core/CoreIterators.h ./Eigen/src/Core/products/Parallelizer.h ./Eigen/src/Core/products/SelfadjointMatrixVector.h ./Eigen/src/Core/products/GeneralMatrixMatrixTriangular.h ./Eigen/src/Core/products/TriangularSolverMatrix.h ./Eigen/src/Core/products/GeneralMatrixMatrix.h ./Eigen/src/Core/products/SelfadjointProduct.h ./Eigen/src/Core/products/CoeffBasedProduct.h ./Eigen/src/Core/products/TriangularMatrixVector.h ./Eigen/src/Core/products/SelfadjointMatrixMatrix.h ./Eigen/src/Core/products/TriangularSolverVector.h ./Eigen/src/Core/products/SelfadjointRank2Update.h ./Eigen/src/Core/products/GeneralBlockPanelKernel.h ./Eigen/src/Core/products/GeneralMatrixVector.h ./Eigen/src/Core/products/TriangularMatrixMatrix.h ./Eigen/src/Core/Reverse.h ./Eigen/src/Core/BooleanRedux.h ./Eigen/src/Core/Replicate.h ./Eigen/src/Core/arch/AltiVec/PacketMath.h ./Eigen/src/Core/arch/AltiVec/Complex.h ./Eigen/src/Core/arch/SSE/PacketMath.h ./Eigen/src/Core/arch/SSE/Complex.h ./Eigen/src/Core/arch/SSE/MathFunctions.h ./Eigen/src/Core/arch/NEON/PacketMath.h ./Eigen/src/Core/arch/NEON/Complex.h ./Eigen/src/Core/arch/Default/Settings.h ./Eigen/src/Core/CwiseUnaryView.h ./Eigen/src/Core/Array.h ./Eigen/src/Core/ArrayWrapper.h ./Eigen/src/Core/Swap.h ./Eigen/src/Core/Transpositions.h ./Eigen/src/Core/Random.h ./Eigen/src/Core/IO.h ./Eigen/src/Core/SelfCwiseBinaryOp.h ./Eigen/src/Core/VectorwiseOp.h ./Eigen/src/Core/Select.h ./Eigen/src/Core/ArrayBase.h ./Eigen/src/Core/DenseCoeffsBase.h ./Eigen/src/Core/DiagonalProduct.h ./Eigen/src/Core/Assign.h ./Eigen/src/Core/Redux.h ./Eigen/src/Core/ForceAlignedAccess.h ./Eigen/src/Core/BandMatrix.h

./Eigen/src/Core/PlainObjectBase.h ./Eigen/src/Core/DenseBase.h ./Eigen/src/Core/Flagged.h ./Eigen/src/Core/CwiseBinaryOp.h ./Eigen/src/Core/ProductBase.h ./Eigen/src/Core/TriangularMatrix.h ./Eigen/src/Core/Transpose.h ./Eigen/src/Core/DiagonalMatrix.h ./Eigen/src/Core/Dot.h ./Eigen/src/Core/Functors.h ./Eigen/src/Core/PermutationMatrix.h ./Eigen/src/Core/NumTraits.h ./Eigen/src/Core/MatrixBase.h ./Eigen/src/Core/DenseStorage.h ./Eigen/src/Core/util/Memory.h ./Eigen/src/Core/util/StaticAssert.h ./Eigen/src/Core/util/BlasUtil.h ./Eigen/src/Core/util/MatrixMapper.h ./Eigen/src/Core/util/XprHelper.h ./Eigen/src/Core/util/ForwardDeclarations.h ./Eigen/src/Core/util/Meta.h ./Eigen/src/Core/util/Macros.h ./Eigen/src/Core/util/Constants.h ./Eigen/src/Core/CwiseNullaryOp.h ./Eigen/src/Core/Block.h ./Eigen/src/Core/GeneralProduct.h ./Eigen/src/Core/CommaInitializer.h ./Eigen/src/Core/ReturnByValue.h ./Eigen/src/Core/Stride.h ./Eigen/src/SPQRSupport/SuiteSparseQRSupport.h ./Eigen/src/SparseLU/SparseLU_column_dfs.h ./Eigen/src/SparseLU/SparseLU_panel_dfs.h ./Eigen/src/SparseLU/SparseLU_relax_snode.h ./Eigen/src/SparseLU/SparseLU_panel_bmod.h ./Eigen/src/SparseLU/SparseLU_SupernodalMatrix.h ./Eigen/src/SparseLU/SparseLU_Utils.h ./Eigen/src/SparseLU/SparseLU_gemm_kernel.h ./Eigen/src/SparseLU/SparseLU_kernel_bmod.h ./Eigen/src/SparseLU/SparseLU_pivotL.h ./Eigen/src/SparseLU/SparseLU_Memory.h ./Eigen/src/SparseLU/SparseLU_heap_relax_snode.h ./Eigen/src/SparseLU/SparseLUImpl.h ./Eigen/src/SparseLU/SparseLU_copy_to_ucol.h ./Eigen/src/SparseLU/SparseLU_Structs.h ./Eigen/src/SparseLU/SparseLU.h ./Eigen/src/SparseLU/SparseLU_column_bmod.h ./Eigen/src/SparseLU/SparseLU_pruneL.h ./Eigen/src/IterativeLinearSolvers/IncompleteLUT.h

./Eigen/src/IterativeLinearSolvers/BasicPreconditioners.h ./Eigen/src/IterativeLinearSolvers/IterativeSolverBase.h ./Eigen/src/IterativeLinearSolvers/ConjugateGradient.h ./Eigen/src/IterativeLinearSolvers/BiCGSTAB.h ./Eigen/src/SparseCholesky/SimplicialCholesky.h ./Eigen/src/Cholesky/LDLT.h ./Eigen/src/Cholesky/LLT.h ./Eigen/src/CholmodSupport/CholmodSupport.h ./Eigen/src/PaStiXSupport/PaStiXSupport.h ./Eigen/src/MetisSupport/MetisSupport.h ./Eigen/StdVector ./Eigen/Core ./Eigen/SparseLU ./Eigen/StdList ./Eigen/StdDeque ./Eigen/SparseCholesky ./scripts/relicense.py ./scripts/relicense.py ./blas/BandTriangularSolver.h ./blas/PackedTriangularMatrixVector.h ./blas/complex double.cpp ./blas/level2_real_impl.h ./blas/level1_cplx_impl.h ./blas/level1_impl.h ./blas/level1_real_impl.h ./blas/level3_impl.h ./blas/single.cpp ./blas/level2_cplx_impl.h ./blas/PackedSelfadjointProduct.h ./blas/Rank2Update.h ./blas/complex_single.cpp ./blas/PackedTriangularSolverVector.h ./blas/double.cpp ./blas/common.h ./blas/level2_impl.h ./blas/GeneralRank1Update.h

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./unsupported/Eigen/src/Eigenvalues/ArpackSelfAdjointEigenSolver.h

./Eigen/src/OrderingMethods/Amd.h

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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java_src/android_libs/protobuf_nano/v2

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libvorbis ***************************

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libxcb

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Specifically, the GPL parts of FFmpeg are:

- libpostproc

- optional x86 optimization in the files

- `libavcodec/x86/flac_dsp_gpl.asm`
- `libavcodec/x86/idct_mmx.c`
- `libavfilter/x86/vf_removegrain.asm`
- the X11 grabber in `libavdevice/x11grab.c`
- the following building and testing tools
 - `compat/solaris/make_sunver.pl`
 - `doc/t2h.pm`
 - `doc/texi2pod.pl`
 - `libswresample/swresample-test.c`
 - `tests/checkasm/*`
 - `tests/tiny_ssim.c`
- the following filters in libavfilter:
 - `f_ebur128.c`
 - `vf_blackframe.c`
 - `vf_boxblur.c`
 - `vf_colormatrix.c`
 - -`vf_cover_rect.c`
 - `vf_cropdetect.c`
 - -`vf_delogo.c`
 - -`vf_eq.c`
 - `vf_find_rect.c`
 - `vf_fspp.c`
 - -`vf_geq.c`
 - `vf_histeq.c`
 - -`vf_hqdn3d.c`
 - `vf_interlace.c`
 - `vf_kerndeint.c`
 - `vf_mcdeint.c`
 - `vf_mpdecimate.c`
 - `vf_owdenoise.c`
 - `vf_perspective.c`
 - -`vf_phase.c`
 - `vf_pp.c`
 - `vf_pp7.c`
 - `vf_pullup.c`
 - `vf_repeatfields.c`
 - -`vf_sab.c`
 - `vf_smartblur.c`
 - `vf_spp.c`
 - -`vf_stereo3d.c`
 - `vf_super2xsai.c`
 - `vf_tinterlace.c`
 - `vf_uspp.c`
 - `vsrc_mptestsrc.c`

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There are a handful of files under other licensing terms, namely:

* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and `libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.

* `tests/reference.pnm` is under the expat license.

External libraries

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

Compatible libraries

The following libraries are under GPL:

- frei0r
- libcdio
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these libraries, even in circumstances that their license may be incompatible, pass `--enable-nonfree` to configure. But note that if you enable any of these libraries the resulting binary will be under a complex license mix that is more restrictive than the LGPL and that may result in additional obligations. It is possible that these restrictions cause the resulting binary to be unredistributable.

The Fraunhofer FDK AAC and OpenSSL libraries are under licenses which are incompatible with the GPLv2 and v3. To the best of our knowledge, they are compatible with the LGPL.

The NVENC library, while its header file is licensed under the compatible MIT license, requires a proprietary binary blob at run time, and is deemed to be incompatible with the GPL. We are not certain if it is compatible with the LGPL, but we require `--enable-nonfree` even with LGPL configurations in case it is not.

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#!/usr/bin/env python

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import json import os import sys

import common

```
with open(tempfile_path) as f:
results = json.load(f)
```

json.dump({
 'valid': True,
 'failures': results,
}, args.output)

return rc

```
def main_compile_targets(args):
    json.dump([], args.output)
```

```
if __name__ == '__main__':
funcs = {
    'run': main_run,
    'compile_targets': main_compile_targets,
    }
    sys.exit(common.run_script(sys.argv[1:], funcs))
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```

import json import os import sys

import common

def main_run(args):

with open(tempfile_path) as f: checklicenses_results = json.load(f)

```
result_set = set()
for result in checklicenses_results:
    result_set.add((result['filename'], result['license']))
```

```
json.dump({
    'valid': True,
    'failures': ['%s: %s' % (r[0], r[1]) for r in result_set],
}, args.output)
```

return rc

```
def main_compile_targets(args):
    json.dump([], args.output)
```

```
if __name__ == '__main__':
funcs = {
    'run': main_run,
    'compile_targets': main_compile_targets,
    }
    sys.exit(common.run_script(sys.argv[1:], funcs))
```

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def CheckChangeOnUpload(input_api, output_api):
 return _CommonChecks(input_api, output_api)

def CheckChangeOnCommit(input_api, output_api):
 return _CommonChecks(input_api, output_api)

def _CommonChecks(input_api, output_api):
 """Checks common to both upload and commit."""
 results = []

would affect tests = ['PRESUBMIT.py', 'copyright_scanner.py', 'copyright_scanner_unittest.py' 1 need to run unittests = False for f in input_api.AffectedFiles(): if any(t for t in would_affect_tests if f.LocalPath().endswith(t)): need to run unittests = True break tests = [input_api.os_path.join(input_api.PresubmitLocalPath(), 'copyright_scanner_unittest.py')] results.extend(input_api.canned_checks.RunUnitTests(input_api, output_api, tests)) return results # Copyright 2014 The Chromium Authors. All rights reserved. # Use of this source code is governed by a BSD-style license that can be # found in the LICENSE file.

"""Utilities for scanning source files to determine code authorship.

import itertools

def ForwardSlashesToOsPathSeps(input api, path): """Converts forward slashes ('/') in the input path to OS-specific path separators. Used when the paths come from outside and are using UNIX path separators. Only works for relative paths! Args: input_api: InputAPI, as in presubmit scripts. path: The path to convert. Returns: Converted path. return input_api.os_path.join(*path.split('/')) def FindFiles(input_api, root_dir, start_paths_list, excluded_dirs_list): """Similar to UNIX utility find(1), searches for files in the directories. Automatically leaves out only source code files and excludes third_party directories. Args: input_api: InputAPI, as in presubmit scripts. root_dir: The root directory, to which all other paths are relative. start_paths_list: The list of paths to start search from. Each path can be a file or a directory. excluded_dirs_list: The list of directories to skip.

Returns:

The list of source code files found, relative to $|root_dir|$.

path join = input api.os path.join

.....

excluded_dirs_list = [d for d in excluded_dirs_list if not 'third_party' in d]
Using a common pattern for third-partyies makes the ignore regexp shorter
excluded_dirs_list.append('third_party')

EXTRA_EXCLUDED_DIRS = [# VCS dirs path join('.git'), path_join('.svn'), # Build output path join('out', 'Debug'), path_join('out', 'Release'), # 'Copyright' appears in license agreements path join('chrome', 'app', 'resources'), # Quickoffice js files from internal src used on buildbots. # crbug.com/350472. path_join('chrome', 'browser', 'resources', 'chromeos', 'quickoffice'), # blink style copy right headers. path join('content', 'shell', 'renderer', 'test runner'), # blink style copy right headers. path_join('content', 'shell', 'tools', 'plugin'), # This is tests directory, doesn't exist in the snapshot path_join('content', 'test', 'data'), # This is a tests directory that doesn't exist in the shipped product. path join('gin', 'test'), # This is a test output directory path join('data', 'dom perf'), # This is a tests directory that doesn't exist in the shipped product. path_join('tools', 'perf', 'page_sets'), path_join('tools', 'perf', 'page_sets', 'tough_animation_cases'), # Histogram tools, doesn't exist in the snapshot path join('tools', 'histograms'), # Swarming tools, doesn't exist in the snapshot path_join('tools', 'swarming_client'), # Don't check downloaded goma client binaries. path_join('build', 'goma', 'client'), # Ignore sysroots. path_join('build', 'linux', 'debian_jessie_arm64-sysroot'), path_join('build', 'linux', 'debian_wheezy_amd64-sysroot'), path_join('build', 'linux', 'debian_wheezy_arm-sysroot'), path_join('build', 'linux', 'debian_wheezy_mips-sysroot'), path_join('build', 'linux', 'debian_wheezy_i386-sysroot'), path_join('build', 'linux', 'ubuntu_precise_amd64-sysroot'), # Old location (TODO(sbc): Remove this once it no longer exists on any bots) path_join('chrome', 'installer', 'linux', 'debian_wheezy_arm-sysroot'), # Data is not part of open source chromium, but are included on some bots.

path_join('data'),
This is not part of open source chromium, but are included on some bots.
path_join('skia', 'tools', 'clusterfuzz-data'),
Not shipped, only relates to Chrome for Android, but not to WebView
path_join('clank'),
Internal-only repository.
path_join('remoting', 'android', 'internal'),
]
excluded_dirs_list.extend(EXTRA_EXCLUDED_DIRS)

Surround the directory names with OS path separators. dirs_blacklist = [path_join('.', d, ")[1:] for d in excluded_dirs_list if d] def IsBlacklistedDir(d): for item in dirs_blacklist: if item in d: return True

return False

```
files_whitelist_re = input_api.re.compile(
```

```
\label{eq:rl} $r'(asm|c(c|pp|xx)?|h(h|pp|xx)?|p(l|m)|xs|sh|php|py(|x)' |rb|idl|java|el|sc(i|e)|cs|pas|inc|js|pac|html|dtd|xsl|mod|mm?' |tex|mli?)$')
```

files = []

```
base_path_len = len(root_dir)
for path in start_paths_list:
 full_path = path_join(root_dir, path)
 if input_api.os_path.isfile(full_path):
  if files_whitelist_re.search(path) and \setminus
     not IsBlacklistedDir(full_path[base_path_len:]): # Keep '/' prefix.
   files.append(path)
 else:
  for dirpath, dirnames, filenames in input_api.os_walk(full_path):
   # Remove excluded subdirs for faster scanning.
   for item in dirnames[:]:
     if IsBlacklistedDir(
       path_join(dirpath, item)[base_path_len + 1:]):
      dirnames.remove(item)
    for filename in filenames:
     filepath = \setminus
       path_join(dirpath, filename)[base_path_len + 1:]
     if files_whitelist_re.search(filepath) and \
       not IsBlacklistedDir(filepath):
      files.append(filepath)
```

```
return files
```

class _GeneratedFilesDetector(object):

GENERATED_FILE = 'GENERATED FILE'

```
NO_COPYRIGHT = '*No copyright*'
```

definit(self, input_api):
self.python_multiline_string_double_re = $\$
input_api.re.compile(r'''''[^"]*(?:"''' \$)', flags=input_api.re.MULTILINE)
self.python_multiline_string_single_re = \
input_api.re.compile(r""[^']*(?:"" \$)", flags=input_api.re.MULTILINE)
self.automatically_generated_re = input_api.re.compile(
r'(All changes made in this file will be lost'
' DO NOT (EDIT delete this file)'
' Generated (at automatically data)'
'Automatically generated'
' \Wgenerated\s+(?:\w+\s+)*file\W)', flags=input_api.re.IGNORECASE)

def IsGeneratedFile(self, header):

```
header = header.upper()
if """"' in header:
    header = self.python_multiline_string_double_re.sub(", header)
if """" in header:
    header = self.python_multiline_string_single_re.sub(", header)
# First do simple strings lookup to save time.
if 'ALL CHANGES MADE IN THIS FILE WILL BE LOST' in header:
    return True
if 'DO NOT EDIT' in header or 'DO NOT DELETE' in header or \
    'GENERATED' in header:
    return self.automatically_generated_re.search(header)
return False
```

class _CopyrightsScanner(object):

@staticmethod

```
def StaticInit(input_api):
```

```
_CopyrightsScanner._c_comment_re = \
```

```
input_api.re.compile(r"""[^"\\]*(?:\\.[^"\\]*)*""")
```

```
_CopyrightsScanner._copyright_indicator = \
```

```
r'(?:copyright|copr\.|\xc2\xa9|\(c\))'
```

 $_CopyrightsScanner._full_copyright_indicator_re = input_api.re.compile($

```
r'(?:\backslash W|^{)'} + \_CopyrightsScanner.\_copyright\_indicator + \\ \backslash
```

r'(?::\s*|\s+)(\w.*)\$', input_api.re.IGNORECASE)

_CopyrightsScanner._copyright_disindicator_re = input_api.re.compile(r'\s*\b(?:info(?:rmation)?|notice|and|or)\b', input_api.re.IGNORECASE)

```
def __init__(self, input_api):
    self.max_line_numbers_proximity = 3
```

```
self.last_a_item_line_number = -200
```

```
self.last_b_item_line_number = -100
```

```
self.re = input_api.re
```

```
def CloseLineNumbers(self, a, b):
 return 0 <= a - b <= self.max_line_numbers_proximity
def MatchLine(self, line number, line):
 if ""' in line:
  line = CopyrightsScanner. c comment re.sub(", line)
 upcase line = line.upper()
 # Record '(a)' and '(b)' last occurences in C++ comments.
 # This is to filter out '(c)' used as a list item inside C++ comments.
 # E.g. "// blah-blah (a) blah\n// blah-blah (b) and (c) blah"
 cpp_comment_idx = upcase_line.find('//')
 if cpp comment idx != -1:
  if upcase_line.find('(A)') > cpp_comment_idx:
   self.last_a_item_line_number = line_number
  if upcase_line.find('(B)') > cpp_comment_idx:
   self.last_b_item_line_number = line_number
 # Fast bailout, uses the same patterns as copyright indicator regexp.
 if not 'COPYRIGHT' in upcase_line and not 'COPR.' in upcase_line \
   and not '\xc2\xa9' in upcase_line:
  c item index = upcase line.find('(C)')
  if c_item_index == -1:
   return None
  if c item index > cpp comment idx and \setminus
     self._CloseLineNumbers(line_number,
                   self.last b item line number) and \
     self. CloseLineNumbers(self.last b item line number,
                   self.last_a_item_line_number):
   return None
 copyr = None
 m = _CopyrightsScanner._full_copyright_indicator_re.search(line)
 if m and \setminus
   not _CopyrightsScanner._copyright_disindicator_re.match(m.group(1)):
  copyr = m.group(0)
  # Prettify the authorship string.
  copyr = self.re.sub(r'([,.])?\s*$/', ", copyr)
  copyr = self.re.sub(
   _CopyrightsScanner._copyright_indicator, ", copyr, \
   flags=self.re.IGNORECASE)
  copyr = self.re.sub(r'^\s+', ", copyr)
  copyr = self.re.sub(r' \{2, \}', '', copyr)
  copyr = self.re.sub(r' \\@', '@', copyr)
 return copyr
```

```
def FindCopyrights(input_api, root_dir, files_to_scan):
"""Determines code autorship, and finds generated files.
Args:
```

```
input_api: InputAPI, as in presubmit scripts.
 root dir: The root directory, to which all other paths are relative.
 files to scan: The list of file names to scan.
Returns:
 The list of copyrights associated with each of the files given.
 If the certain file is generated, the corresponding list consists a single
 entry -- 'GENERATED FILE' string. If the file has no copyright info,
 the corresponding list contains 'NO_COPYRIGHT' string.
.....
generated files detector = GeneratedFilesDetector(input api)
_CopyrightsScanner.StaticInit(input_api)
copyrights = []
for file name in files to scan:
 linenum = 0
 header = []
 file_copyrights = []
 scanner = _CopyrightsScanner(input_api)
 contents = input api.ReadFile(
  input_api.os_path.join(root_dir, file_name), 'r')
 for l in contents.split('\n'):
  linenum += 1
  if linenum \leq 25:
   header.append(1)
  c = scanner.MatchLine(linenum, l)
  if c:
   file_copyrights.append(c)
 if generated_files_detector.IsGeneratedFile('\n'.join(header)):
  copyrights.append([_GeneratedFilesDetector.GENERATED_FILE])
 elif file copyrights:
  copyrights.append(file_copyrights)
 else:
  copyrights.append([_GeneratedFilesDetector.NO_COPYRIGHT])
return copyrights
def FindCopyrightViolations(input_api, root_dir, files_to_scan):
"""Looks for files that are not belong exlusively to the Chromium Authors.
Args:
 input_api: InputAPI, as in presubmit scripts.
 root_dir: The root directory, to which all other paths are relative.
 files_to_scan: The list of file names to scan.
Returns:
 The list of file names that contain non-Chromium copyrights.
.....
copyrights = FindCopyrights(input_api, root_dir, files_to_scan)
offending_files = []
allowed_copyrights_re = input_api.re.compile(
 r'^(?:20[0-9][0-9](?:-20[0-9][0-9])? The Chromium Authors\. '
```

'All rights reserved.*)\$')
for f, cs in itertools.izip(files_to_scan, copyrights):
 if cs[0] == _GeneratedFilesDetector.GENERATED_FILE or \
 cs[0] == _GeneratedFilesDetector.NO_COPYRIGHT:
 continue
 for c in cs:
 if not allowed_copyrights_re.match(c):
 offending_files.append(input_api.os_path.normpath(f))
 break
return offending_files

def _GetWhitelistFileName(input_api):
 return input_api.os_path.join(
 'tools', 'copyright_scanner', 'third_party_files_whitelist.txt')

```
def _ProcessWhitelistedFilesList(input_api, lines):
  whitelisted_files = []
  for line in lines:
    match = input_api.re.match(r'([^#\s]+)', line)
    if match:
    whitelisted_files.append(
        ForwardSlashesToOsPathSeps(input_api, match.group(1)))
  return whitelisted_files
```

def LoadWhitelistedFilesList(input_api):

"""Loads and parses the 3rd party code whitelist file.
input_api: InputAPI of presubmit scripts.
Returns:
The list of files.
"""
full_file_name = input_api.os_path.join(
input_api.change.RepositoryRoot(), _GetWhitelistFileName(input_api))
file_data = input_api.ReadFile(full_file_name, 'rb')

return _ProcessWhitelistedFilesList(input_api, file_data.splitlines())

def AnalyzeScanResults(input_api, whitelisted_files, offending_files):
"""Compares whitelist contents with the results of file scanning. input_api: InputAPI of presubmit scripts. whitelisted_files: Whitelisted files list. offending_files: Files that contain 3rd party code.
Returns:
A triplet of "unknown", "missing", and "stale" file lists.
"Unknown" are files that contain 3rd party code but not whitelisted.
"Missing" are files that are whitelisted but doesn't really exist.
"Stale" are files that are whitelisted unnecessarily.

unknown = set(offending_files) - set(whitelisted_files) missing = [f for f in whitelisted_files if not input_api.os_path.isfile(input_api.os_path.join(input_api.change.RepositoryRoot(), f))] stale = set(whitelisted_files) - set(offending_files) - set(missing) return (list(unknown), missing, list(stale))

def _GetDeletedContents(affected_file):
"""Returns a list of all deleted lines.
AffectedFile class from presubmit_support is lacking this functionality.
"""
deleted_lines = []
for line in affected_file.GenerateScmDiff().splitlines():

if line.startswith('-') and not line.startswith('--'):

deleted_lines.append(line[1:])

return deleted_lines

def _DoScanAtPresubmit(input_api, whitelisted_files, files_to_check):
 # We pass empty 'known third-party' dirs list here. Since this is a patch
 # for the Chromium's src tree, it must contain properly licensed Chromium
 # code. Any third-party code must be put into a directory named 'third_party',
 # and such dirs are automatically excluded by FindFiles.
 files_to_scan = FindFiles(
 input_api, input_api.change.RepositoryRoot(), files_to_check, [])
 offending_files = FindCopyrightViolations(
 input_api, input_api.change.RepositoryRoot(), files_to_scan)
 return AnalyzeScanResults(
 input_api, whitelisted files, offending_files)

def ScanAtPresubmit(input_api, output_api):

"""Invoked at change presubmit time. Verifies that updated non third-party code doesn't contain external copyrighted code.

input_api: InputAPI of presubmit scripts.

output_api: OutputAPI of presubmit scripts.

```
.....
```

files_to_check = set([]) deleted_files = set([])

whitelist_contents_changed = False

```
for f in input_api.AffectedFiles():
```

if f.LocalPath() == _GetWhitelistFileName(input_api):

```
whitelist_contents_changed = True
```

```
deleted_files |= set(_ProcessWhitelistedFilesList(
```

```
input_api, _GetDeletedContents(f)))
```

continue

```
if f.Action() != 'D':
```

```
files_to_check.add(f.LocalPath())
```

```
else:
```

```
deleted files.add(f.LocalPath())
whitelisted files = set(LoadWhitelistedFilesList(input api))
if not whitelist_contents_changed:
  whitelisted_files &= files_to_check | deleted_files
else:
 # Need to re-check the entire contents of the whitelist file.
 # Also add files removed from the whitelist. If the file has indeed been
 # deleted, the scanner will not complain.
 files_to_check |= whitelisted_files | deleted_files
(unknown_files, missing_files, stale_files) = _DoScanAtPresubmit(
 input_api, list(whitelisted_files), list(files_to_check))
results = []
if unknown_files:
 results.append(output_api.PresubmitError(
    'The following files contain a third-party license but are not in '\
    'a listed third-party directory and are not whitelisted. You must '\
    'add the following files to the whitelist file \$sn'
    '(Note that if the code you are adding does not actually contain ' \
    'any third-party code, it may contain the word "copyright", which '\
    'should be masked out, e.g. by writing it as "copy-right"):' \
    "% _GetWhitelistFileName(input_api),
    sorted(unknown_files)))
if missing files:
 results.append(output_api.PresubmitPromptWarning(
    'The following files are whitelisted in %s, '\
    'but do not exist or not files:' % _GetWhitelistFileName(input_api),
    sorted(missing_files)))
if stale files:
 results.append(output_api.PresubmitPromptWarning(
    'The following files are whitelisted unnecessarily. You must ' \
    'remove the following files from the whitelist file '\
    '%s:' % GetWhitelistFileName(input api),
    sorted(stale files)))
return results
#!/usr/bin/env python
# Copyright 2015 The Chromium Authors. All rights reserved.
# Use of this source code is governed by a BSD-style license that can be
# found in the LICENSE file.
__all__ = ['copyright_scanner']
#!/usr/bin/env python
# Copyright 2014 The Chromium Authors. All rights reserved.
# Use of this source code is governed by a BSD-style license that can be
# found in the LICENSE file.
```

```
"""Unit tests for Copyright Scanner utilities."""
```

```
import os
import re
import sys
import unittest
```

```
test_dir = os.path.dirname(os.path.abspath(__file__))
sys.path.extend([
    os.path.normpath(os.path.join(test_dir, '..', '..', 'build')),
    os.path.join(test_dir),
])
```

import find_depot_tools
from testing_support.super_mox import SuperMoxTestBase

```
import copyright_scanner
```

```
class FindCopyrightsTest(SuperMoxTestBase):
def setUp(self):
   SuperMoxTestBase.setUp(self)
   self.input_api = self.mox.CreateMockAnything()
   self.input_api.re = re
   self.input_api.os_path = os.path
   self.input_api.os_walk = os.walk
```

```
def ShouldMatchReferenceOutput(self, test_data, expected_output):
for data in test_data:
    self.input_api.ReadFile = lambda _1, _2: data
    actual_output = copyright_scanner.FindCopyrights(self.input_api, ", ["])
    self.assertEqual(
        expected_output,
        actual_output,
        Input """\n%s""", expected output: "%s", actual: "%s"' % \
        (data, expected_output, actual_output));
```

```
def testCopyrightedFiles(self):
    test_data = [
    '// (c) 2014 Google Inc.\n/\n// (a) One\n/\n// (b) Two\n/\n',
    'Copyright 2014 Google Inc.\n',
    'Copr. 2014 Google Inc.',
    '\xc2\xa9 2014 Google Inc.',
    'Copyright 2014 Google Inc.'
]
self.ShouldMatchReferenceOutput(test_data, [['2014 Google Inc.']])
```

def testGeneratedFiles(self):

```
test_data = [
```

```
'ALL CHANGES MADE IN THIS FILE WILL BE LOST\nCopyright 2014 Google\n',
'GENERATED FILE. DO NOT EDIT\nCopyright 2014 Google\n',
```

'GENERATED. DO NOT DELETE THIS FILE.\nCopyright 2014 Google\n', 'DO NOT EDIT\nCopyright 2014 Google\n', 'DO NOT DELETE THIS FILE\nCopyright 2014 Google\n', 'All changes made in this file will be lost\nCopyright 2014 Google\n', 'Automatically generated file\nCopyright 2014 Google\n', 'Synthetically generated dummy file\nCopyright 2014 Google\n', 'Generated data (by gnugnu)\nCopyright 2014 Google\n' 1 self.ShouldMatchReferenceOutput(test_data, [['GENERATED FILE']]) def testNonCopyrightedFiles(self): test_data = ['std::cout << "Copyright 2014 Google"\n', '// Several points can be made:n//n// (a) Onen//n// (b) Two/n' $'//\langle n//$ (c) Three $\langle n//\langle n',$ 'See \'foo\' for copyright information.\n', 'See $\for the copyright notice.\n',$ 'See \'foo\' for the copyright and other things.\n' 1 self.ShouldMatchReferenceOutput(test_data, [['*No copyright*']]) def testNonGeneratedFiles(self): test_data = ['This file was prohibited from being generated.\n', 'Please do not delete our files! They are valuable to us.\n', 'Manually generated from dice rolls.\n', """This Python script produces generated data\n"""\n', \\\\This Python script produces generated data\n\\\\\\n' 1 self.ShouldMatchReferenceOutput(test_data, [['*No copyright*']]) class FindFilesTest(SuperMoxTestBase): def setUp(self):

SuperMoxTestBase.setUp(self) self.input_api = self.mox.CreateMockAnything() self.input_api.re = re self.input_api.os_path = os.path

```
def testFilesAsStartPaths(self):
  join = self.input_api.os_path.join
  self.input_api.os_path.isfile = lambda _: True
  input_files = [
    'a',
    'a.cc',
    'a.txt',
    join('foo', 'a'),
    join('foo', 'a.cc'),
```

```
join('foo', 'a.txt'),
 join('third_party', 'a'),
 join('third_party', 'a.cc'),
 join('third_party', 'a.txt'),
 join('foo', 'third_party', 'a'),
 join('foo', 'third_party', 'a.cc'),
 join('foo', 'third party', 'a.txt'),
1
root_dir = os.path.sep + 'src'
actual = copyright scanner.FindFiles(
 self.input_api, root_dir, input_files, ["])
self.assertEqual(['a.cc', join('foo', 'a.cc')], actual)
actual = copyright scanner.FindFiles(
 self.input_api, root_dir, input_files, ['third_party'])
self.assertEqual(['a.cc', join('foo', 'a.cc')], actual)
actual = copyright_scanner.FindFiles(
 self.input_api, root_dir, input_files, ['foo'])
self.assertEqual(['a.cc'], actual)
actual = copyright_scanner.FindFiles(
 self.input_api, root_dir, input_files, ['foo', 'third_party'])
self.assertEqual(['a.cc'], actual)
actual = copyright_scanner.FindFiles(
 self.input_api, root_dir, input_files, [join('foo', 'third_party')])
self.assertEqual(['a.cc', join('foo', 'a.cc')], actual)
```

```
def testDirAsStartPath(self):
    self.input_api.os_path.isfile = lambda _: False
    join = self.input_api.os_path.join
    normpath = self.input_api.os_path.normpath
    root_dir = os.path.sep + 'src'
    scan_from = '.'
    base_path = join(root_dir, scan_from)
```

```
def mock_os_walk(path):
return lambda _: [(join(base_path, path), ["], ['a', 'a.cc', 'a.txt'])]
```

```
self.input_api.os_walk = mock_os_walk(")
actual = map(normpath, copyright_scanner.FindFiles(
    self.input_api, root_dir, [scan_from], ["]))
self.assertEqual(['a.cc'], actual)
```

```
self.input_api.os_walk = mock_os_walk('third_party')
actual = map(normpath, copyright_scanner.FindFiles(
    self.input_api, root_dir, [scan_from], ["]))
self.assertEqual([], actual)
```

```
self.input_api.os_walk = mock_os_walk('foo')
actual = map(normpath, copyright_scanner.FindFiles(
```

self.input_api, root_dir, [scan_from], ["]))
self.assertEqual([join('foo', 'a.cc')], actual)

self.input_api.os_walk = mock_os_walk('foo')
actual = map(normpath, copyright_scanner.FindFiles(
 self.input_api, root_dir, [scan_from], ['foo']))
self.assertEqual([], actual)

self.input_api.os_walk = mock_os_walk(join('foo', 'bar'))
actual = map(normpath, copyright_scanner.FindFiles(
 self.input_api, root_dir, [scan_from], ['foo']))
self.assertEqual([], actual)

self.input_api.os_walk = mock_os_walk(join('foo', 'third_party'))
actual = map(normpath, copyright_scanner.FindFiles(
 self.input_api, root_dir, [scan_from], ["]))
self.assertEqual([], actual)

```
self.input_api.os_walk = mock_os_walk(join('foo', 'third_party'))
actual = map(normpath, copyright_scanner.FindFiles(
    self.input_api, root_dir, [scan_from], [join('foo', 'third_party')]))
self.assertEqual([], actual)
```

class AnalyzeScanResultsTest(SuperMoxTestBase): def setUp(self): SuperMoxTestBase.setUp(self) self.input_api = self.mox.CreateMockAnything()

self.input_api.os_path = os.path
self.input_api.change = self.mox.CreateMockAnything()
self.input_api.change.RepositoryRoot = lambda: "

def testAnalyzeScanResults(self):

```
# Tests whitelisted vs. current files state logic.#
```

```
# Whitelisted - in whitelist, and contains 3rd party code => OK
```

```
# Missing - in whitelist, but doesn't exist
```

```
# Stale - in whitelist, but is clean
```

Unknown - not in whitelist, but contains 3rd party code

```
self.input_api.os_path.isfile = lambda x: x != 'Missing'
```

self.assertEqual(

(['Unknown'], ['Missing'], ['Stale']),

['Whitelisted', 'Missing', 'Stale'], ['Whitelisted', 'Unknown']))

class ScanAtPresubmitTest(SuperMoxTestBase):
 def setUp(self):

SuperMoxTestBase.setUp(self) self.input_api = self.mox.CreateMockAnything() self.input_api.re = re self.input_api.os_path = os.path self.output_api = self.mox.CreateMockAnything() def tearDown(self): self.mox.UnsetStubs() SuperMoxTestBase.tearDown(self)

```
class AffectedFileMock(object):
    def __init__(self, local_path, action):
        self._local_path = local_path
        self._action = action
        def LocalPath(self):
        return self._local_path
        def Action(self):
        return self._action
```

```
def CreateAffectedFilesFunc(self, paths_and_actions):
    result = []
    for i in range(0, len(paths_and_actions), 2):
        result.append(ScanAtPresubmitTest.AffectedFileMock(
        paths_and_actions[i], paths_and_actions[i + 1]))
    return lambda: result
```

```
def CreateDoScanAtPresubmitFunc(self):
    self._whitelisted_files = None
    self._files_to_check = None
    def ScanAtPresubmitStub(_, whitelisted, to_check):
        self._whitelisted_files = whitelisted
        self._files_to_check = to_check
        return ([], [], [])
        return ScanAtPresubmitStub
```

def GetWhitelistedFiles(self):
 return sorted(self._whitelisted_files)

```
def GetFilesToCheck(self):
    return sorted(self._files_to_check)
```

def testWhitelistedUntouched(self):

When a change doesn't touch the whitelist file, any updated files

(except deleted) must be checked. The whitelist used for analysis

- # must be trimmed to the changed files subset.
- #

A_NW.cc - added, not whitelisted => check

A_W.cc - added, whitelisted => check, remain on the trimmed whitelist

D_NW.cc - deleted, not whitelisted => ignore

D_W.cc - deleted and whitelisted => remain on w/l

M_NW.cc - modified, not whitelisted => check

M_W.cc - modified and whitelisted => check, remain on w/l

NM_W.cc - not modified, whitelisted => trim from w/l

W - the whitelist file

self.input api.AffectedFiles = self.CreateAffectedFilesFunc(['A_NW.cc', 'A', 'A_W.cc', 'A', 'D_NW.cc', 'D', 'D_W.cc', 'D', 'M_NW.cc', 'M', 'M_W.cc', 'M']) self.mox.StubOutWithMock(copyright scanner, ' GetWhitelistFileName') copyright_scanner._GetWhitelistFileName = lambda _: 'W' self.mox.StubOutWithMock(copyright_scanner, 'LoadWhitelistedFilesList') copyright scanner.LoadWhitelistedFilesList = $\$ lambda _: ['A_W.cc', 'D_W.cc', 'M_W.cc', 'NM_W.cc'] self.mox.StubOutWithMock(copyright_scanner, '_DoScanAtPresubmit') copyright_scanner._DoScanAtPresubmit = self.CreateDoScanAtPresubmitFunc() self.mox.ReplayAll() copyright scanner.ScanAtPresubmit(self.input api, self.output api) self.assertEqual(['A_W.cc', 'D_W.cc', 'M_W.cc'], self.GetWhitelistedFiles()) self.assertEqual(['A_NW.cc', 'A_W.cc', 'M_NW.cc', 'M_W.cc'], self.GetFilesToCheck())

def testWhitelistTouched(self):

When the whitelist file is touched by the change, all the files listed in

it, including deleted entries, must be re-checked. All modified files

(including the deleted ones) must be checked as well. The current contents

of the whitelist are used for analysis.

Whitelist addition or deletion are not considered.

#

All the files from names testWhitelistedUntouched are re-used, but now

action for all of them is 'check' (except for the w/l file itself).

 $# A_DW.cc - added$, deleted from w/l => check

D_DW.cc - deleted from repo and w/l => check

 $\# M_DW.cc - modified$, deleted from w/l => check

self.input_api.AffectedFiles = self.CreateAffectedFilesFunc(

['A_DW.cc', 'A', 'A_NW.cc', 'A', 'A_W.cc', 'A',

'D_DW.cc', 'D', 'D_NW.cc', 'D', 'D_W.cc', 'D',

'M_DW.cc', 'M', 'M_NW.cc', 'M', 'M_W.cc', 'M', 'W', 'M'])

self.mox.StubOutWithMock(copyright_scanner, '_GetWhitelistFileName')

copyright_scanner._GetWhitelistFileName = lambda _: 'W'

self.mox.StubOutWithMock(copyright_scanner, '_GetDeletedContents')

def GetDeletedContentsStub(affected_file):

self.assertEqual('W', affected_file.LocalPath())

return ['A_DW.cc', 'D_DW.cc', 'M_DW.cc']

copyright_scanner._GetDeletedContents = GetDeletedContentsStub

self.mox.StubOutWithMock(copyright_scanner, 'LoadWhitelistedFilesList')

 $copyright_scanner.LoadWhitelistedFilesList =$

lambda _: ['A_W.cc', 'D_W.cc', 'M_W.cc', 'NM_W.cc']
self.mox.StubOutWithMock(copyright_scanner, '_DoScanAtPresubmit')
copyright_scanner._DoScanAtPresubmit = self.CreateDoScanAtPresubmitFunc()
self.mox.ReplayAll()
copyright_scanner.ScanAtPresubmit(self.input_api, self.output_api)
self.assertEqual(
 ['A_W.cc', 'D_W.cc', 'M_W.cc', 'NM_W.cc'], self.GetWhitelistedFiles())
self.assertEqual(
 ['A_DW.cc', 'A_NW.cc', 'A_W.cc', 'D_DW.cc', 'D_NW.cc', 'D_W.cc',
 'M_DW.cc', 'M_W.cc', 'M_W.cc', 'NM_W.cc'], self.GetFilesToCheck())

if _____name___ == '____main___':

unittest.main()

phajdan.jr@chromium.org

sgurun@chromium.org

torne@chromium.org

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This file records third-party licensing information for the purposes of the

Android WebView build. See webview_licenses.py for details.

#

New third-party code should be added under a directory named 'third_party',

so additions to this file should be rare. See

http://www.chromium.org/developers/adding-3rd-party-libraries.

#

Please always use forward slashes '/' as path separators, even if you are # on Windows.

Copyright IBM; MIT license. This third-party code is taken from ICU, the # license for which we already pick up from third_party/icu/. base/i18n/icu_string_conversions.cc # Contains '(c)' in comments base/logging.h # Copyright Ron Rivest, public domain. base/md5.cc # Copyright Apple Inc; BSD license. Moved from third_party/WebKit/. cc/input/scroll_elasticity_helper.h # Copyright Netscape Communications Corporation; MPL, GPL v2 or LGPL v2 # license. Not used on Android. chrome/browser/importer/firefox_profile_lock.cc # Copyright Netscape Communications Corporation; MPL, GPL v2 or LGPL v2 # license. Not used on Android. chrome/browser/importer/firefox_profile_lock.h # Copyright Netscape Communications Corporation; MPL, GPL v2 or LGPL v2 # license. Not used on Android. chrome/browser/importer/firefox_profile_lock_posix.cc

Copyright Netscape Communications Corporation; MPL, GPL v2 or LGPL v2 # license. Not used on Android. chrome/browser/importer/firefox_profile_lock_win.cc # String 'copyright' used in code. chrome/common/importer/firefox_importer_utils.cc # Copyright Netscape Communications Corporation; MPL, GPL v2 or LGPL v2 # license. Not used on Android. chrome/utility/importer/nss_decryptor.cc # Copyright Netscape Communications Corporation; MPL, GPL v2 or LGPL v2 # license. Not used on Android. chrome/utility/importer/nss_decryptor_mac.h # Copyright Netscape Communications Corporation; MPL, GPL v2 or LGPL v2 # license. Not used on Android. chrome/utility/importer/nss_decryptor_system_nss.cc # Copyright Netscape Communications Corporation; MPL, GPL v2 or LGPL v2 # license. Not used on Android. chrome/utility/importer/nss_decryptor_win.h # Copyright Google Inc; BSD license. Test code only. chrome/tools/test/generate_mime_tests.pl # String 'copyright' used in the text presented to the user as part of # Google Chrome terms of service. components/resources/terms/chromeos/terms_en.html components/resources/terms/terms_am.html components/resources/terms/terms ca.html components/resources/terms_terms_cs.html components/resources/terms/terms da.html components/resources/terms/terms de.html components/resources/terms/terms_en-GB.html components/resources/terms/terms_en.html components/resources/terms/terms es-419.html components/resources/terms/terms_es.html components/resources/terms_terms_et.html components/resources/terms/terms fi.html components/resources/terms/terms_fil.html components/resources/terms_fr.html components/resources/terms/terms_he.html components/resources/terms/terms_hr.html components/resources/terms_hu.html components/resources/terms_terms_id.html components/resources/terms/terms_it.html components/resources/terms/terms_ja.html components/resources/terms/terms_kn.html components/resources/terms/terms_ko.html components/resources/terms/terms_lt.html components/resources/terms_lv.html components/resources/terms/terms_ml.html components/resources/terms_nb.html components/resources/terms_nl.html

components/resources/terms_pl.html components/resources/terms_terms_pt-BR.html components/resources/terms/terms_pt-PT.html components/resources/terms/terms_ro.html components/resources/terms/terms_sk.html components/resources/terms/terms_sl.html components/resources/terms/terms sr.html components/resources/terms/terms_sv.html components/resources/terms/terms_sw.html components/resources/terms/terms ta.html components/resources/terms_te.html components/resources/terms/terms_th.html components/resources/terms_tr.html components/resources/terms_terms_vi.html # Copyright Apple Inc, Nokia Corporation and Torch Mobile Inc; BSD license. # Contains code moved from third party/WebKit/. content/browser/frame_host/navigation_controller_impl.cc # Copyright Apple, Inc, Google Inc; BSD license. Not used on Android. # Moved from third party/WebKit/. content/browser/renderer_host/input/web_input_event_builders_mac.mm # Copyright Apple Inc and Torch Mobile Inc; BSD license. Moved from # third_party/WebKit/. content/renderer/history_controller.h # Copyright Apple Inc, Nokia Corporation and Torch Mobile Inc; BSD license. # Moved from third_party/WebKit/. content/renderer/history controller.cc # Copyright Apple Inc and Torch Mobile Inc; BSD license. Moved from # third_party/WebKit/. content/renderer/history entry.h # Copyright Apple Inc, Nokia Corporation and Torch Mobile Inc; BSD license. # Moved from third_party/WebKit/. content/renderer/history entry.cc # Copyright Google Inc, no license. Not used on Android. google_update/google_update_idl.idl # Copyright WebM Project authors; BSD license. Copied and modified from # third party/libvpx. Not used on Android. media/filters/vp8_bool_decoder.h media/filters/vp8_bool_decoder.cc # Native client not used in Android. Contains the word "Copyright" native_client_sdk/doc_generated/rest-devsite-examples.html # String '(c)' used in certificates organization names net/cert/x509_certificate_known_roots_win.h net/quic/core/crypto/common_cert_set_2a.inc net/quic/core/crypto/common_cert_set_2b.inc net/quic/core/crypto/common_cert_set_3a.inc net/quic/core/crypto/common_cert_set_3b.inc # String '(c)' used in certificates organization names net/test/test_certificate_data.h

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Contains the word 'Copyright' in comments ppapi/generators/idl_c_proto.py ppapi/generators/idl_outfile.py # Copyright (c) 2007-2009 The Khronos Group Inc. Not used on Android ppapi/lib/gl/include/EGL/egl.h ppapi/lib/gl/include/EGL/eglext.h ppapi/lib/gl/include/EGL/eglplatform.h ppapi/lib/gl/include/KHR/khrplatform.h # Copyright The Android Open Source Project; ASL v2 license. skia/config/SkUserConfig.h # Generates copyright headers for Chromium. tools/boilerplate.py # Contains test strings that look like copyrights. tools/copyright_scanner/copyright_scanner_unittest.py # Contains word 'copyright' in comments. tools/gen keyboard overlay data/gen keyboard overlay data.py # This third-party code is taken from Mozilla, but is copyright Google and has # been re-licensed under the Chromium license. tools/imagediff/image_diff_png.cc # Copyright Ero Carrera; BSD license. Tool only. tools/symsrc/pefile.py # Copyright The Chromium Authors, Sun Microsystems Inc, the V8 project authors; # BSD license. Tool only. tools/traceline/traceline/assembler.h # Copyright Google Inc; BSD license. Tool only. tools/traceline/traceline/sidestep/mini disassembler.cc # Copyright Marijn Haverbeke. MIT license. Tool only, not used on Android. tools/win/sizeviewer/clike.js # Copyright Marijn Haverbeke. MIT license. Tool only, not used on Android. tools/win/sizeviewer/codemirror.js # Copyright The Chromium Authors, Apple Inc; BSD license. Not used on Android. ui/base/clipboard/clipboard util win.cc # Copyright The Chromium Authors, Apple Inc and Graham Dennis; BSD license. Not # used on Android. ui/base/cocoa/tool_tip_base_view.mm # Copyright The Chromium Authors, Apple Inc; BSD license. Not used on Android. ui/base/dragdrop/os_exchange_data_provider_win.cc # Copyright Apple Inc; BSD license. Moved from third_party/WebKit/. ui/events/blink/input_scroll_elasticity_controller.cc ui/events/blink/input_scroll_elasticity_controller.h # Copyright The Chromium Authors, Michael Emmel, Google Inc; BSD license. This # third-party code is taken from WebKit, the license for which we already pick # up from webkit/. ui/events/keycodes/keyboard_codes_posix.h # String 'copyright' used in code. ui/file_manager/file_manager/foreground/js/main_scripts.js # String 'copyright' used in code. ui/file_manager/gallery/js/gallery_scripts.js

String 'copyright' used in code. ui/file manager/video player/js/video player scripts.js # This third-party code is taken from Mozilla, but is copyright Google and has # been re-licensed under the Chromium license. ui/gfx/codec/jpeg codec.cc # This third-party code is taken from Mozilla, but is copyright Google and has # been re-licensed under the Chromium license. ui/gfx/codec/png codec.cc # Copyright The Chromium Authors and Apple Inc; BSD license. This third-party # code is taken from WebKit, the license for which we already pick up from # webkit/. content/browser/appcache/appcache_manifest_parser.cc # Copyright The Chromium Authors and Apple Inc; BSD license. This third-party # code is taken from WebKit, the license for which we already pick up from # webkit/. content/browser/appcache/appcache manifest parser.h # String 'copyright' used in code. ui/webui/resources/js/cr/ui/array data model.js # Bundles of existing code. chrome/browser/resources/md_downloads/vulcanized.html chrome/browser/resources/md history/app.vulcanized.html chrome/browser/resources/md_history/lazy_load.vulcanized.html # Generated config files, which are checked in outside of the third-party # library they configure. Copyright The open-vcdiff Authors; Apache2 license. sdch/ios/config.h sdch/linux/config.h sdch/mac/config.h sdch/win/config.h Copyright (c) 2004, 2005, 2006 Ero Carrera <ero@dkbza.org>. All rights reserved.

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#!/usr/bin/env python

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"""Utility for checking and processing licensing information in third_party directories.

Usage: licenses.py <command>

Commands:

scan scan third_party directories, verifying that we have licensing info credits generate about:credits on stdout

(You can also import this as a module.)

import argparse import cgi import os import sys

Paths from the root of the tree to directories to skip.
PRUNE_PATHS = set([
 # Placeholder directory only, not third-party code.
 os.path.join('third_party','adobe'),

Already covered by //third_party/android_tools.

os.path.join('third_party','android_tools_internal'),

Apache 2.0 license. See crbug.com/140478 os.path.join('third_party','bidichecker'),

Build files only, not third-party code.
os.path.join('third_party', 'widevine'),

Only binaries, used during development.
os.path.join('third_party','valgrind'),

Used for development and test, not in the shipping product. os.path.join('build','secondary'), os.path.join('third_party','bison'), os.path.join('third_party', 'blanketjs'), os.path.join('third_party','chromite'), os.path.join('third_party','cygwin'), os.path.join('third_party','gles2_conform'), os.path.join('third_party','gnu_binutils'), os.path.join('third_party','gold'), os.path.join('third_party','gperf'), os.path.join('third_party','kasko'), os.path.join('third_party','lighttpd'), os.path.join('third_party','llvm'), os.path.join('third_party','llvm-build'), os.path.join('third_party', 'mingw-w64'), os.path.join('third_party','nacl_sdk_binaries'), os.path.join('third_party','pefile'), os.path.join('third_party','perl'), os.path.join('third_party', 'psyco_win32'), os.path.join('third_party','pyelftools'), os.path.join('third_party','pylib'), os.path.join('third_party','pywebsocket'), os.path.join('third_party','syzygy'),

Chromium code.
os.path.join('tools', 'swarming_client'),

Stuff pulled in from chrome-internal for official builds/tools. os.path.join('third_party', 'clear_cache'), os.path.join('third_party', 'gnu'), os.path.join('third_party', 'googlemac'), os.path.join('third_party', 'pcre'), os.path.join('third_party', 'psutils'), os.path.join('third_party', 'sawbuck'), # See crbug.com/350472 os.path.join('chrome', 'browser', 'resources', 'chromeos', 'quickoffice'), # Chrome for Android proprietary code. os.path.join('clank'),

Redistribution does not require attribution in documentation. os.path.join('third_party','directxsdk'), os.path.join('third_party','platformsdk_win2008_6_1'), os.path.join('third_party','platformsdk_win7'),

For testing only, presents on some bots.
os.path.join('isolate_deps_dir'),

Overrides some WebRTC files, same license. Skip this one. os.path.join('third_party', 'webrtc_overrides'),

])

```
# Directories we don't scan through.
VCS_METADATA_DIRS = ('.svn', '.git')
PRUNE_DIRS = (VCS_METADATA_DIRS +
        ('out', 'Debug', 'Release', # build files
        'layout_tests')) # lots of subdirs
```

ADDITIONAL_PATHS = (

```
os.path.join('breakpad'),
os.path.join('chrome', 'common', 'extensions', 'docs', 'examples'),
os.path.join('chrome', 'test', 'data'),
os.path.join('native_client'),
os.path.join('ative_client'),
os.path.join('sdch', 'open-vcdiff'),
os.path.join('testing', 'gmock'),
os.path.join('testing', 'gmock'),
os.path.join('testing', 'gtest'),
os.path.join('tools', 'gyp'),
os.path.join('tools', 'page_cycler', 'acid3'),
os.path.join('url', 'third_party', 'mozilla'),
os.path.join('v8'),
```

Fake directories to include the strongtalk and fdlibm licenses.

```
os.path.join('v8', 'strongtalk'),
os.path.join('v8', 'fdlibm'),
```

)

```
# Directories where we check out directly from upstream, and therefore
# can't provide a README.chromium. Please prefer a README.chromium
# wherever possible.
SPECIAL_CASES = {
 os.path.join('native client'): {
    "Name": "native client",
    "URL": "http://code.google.com/p/nativeclient",
    "License": "BSD",
  },
 os.path.join('sdch', 'open-vcdiff'): {
    "Name": "open-vcdiff",
    "URL": "https://github.com/google/open-vcdiff",
    "License": "Apache 2.0, MIT, GPL v2 and custom licenses",
    "License Android Compatible": "yes",
  },
 os.path.join('testing', 'gmock'): {
    "Name": "gmock",
    "URL": "http://code.google.com/p/googlemock",
    "License": "BSD",
    "License File": "NOT_SHIPPED",
  },
 os.path.join('testing', 'gtest'): {
    "Name": "gtest",
    "URL": "http://code.google.com/p/googletest",
    "License": "BSD",
    "License File": "NOT_SHIPPED",
  },
 os.path.join('third_party', 'angle'): {
    "Name": "Almost Native Graphics Layer Engine",
    "URL": "http://code.google.com/p/angleproject/",
    "License": "BSD",
  },
 os.path.join('third_party', 'cros_system_api'): {
    "Name": "Chromium OS system API",
    "URL": "http://www.chromium.org/chromium-os",
    "License": "BSD",
    # Absolute path here is resolved as relative to the source root.
    "License File": "/LICENSE.chromium_os",
  },
 os.path.join('third_party', 'lss'): {
```

```
"Name": "linux-syscall-support",
```

```
"URL": "http://code.google.com/p/linux-syscall-support/",
```

```
"License": "BSD",
```

```
"License File": "/LICENSE",
},
os.path.join('third_party', 'pdfium'): {
  "Name": "PDFium",
  "URL": "http://code.google.com/p/pdfium/",
  "License": "BSD",
},
os.path.join('third_party', 'ppapi'): {
  "Name": "ppapi",
  "URL": "http://code.google.com/p/ppapi/",
},
os.path.join('third_party', 'scons-2.0.1'): {
  "Name": "scons-2.0.1",
  "URL": "http://www.scons.org",
  "License": "MIT",
  "License File": "NOT SHIPPED",
},
os.path.join('third_party', 'catapult'): {
  "Name": "catapult",
  "URL": "https://github.com/catapult-project/catapult",
  "License": "BSD",
  "License File": "NOT_SHIPPED",
},
os.path.join('third_party', 'v8-i18n'): {
  "Name": "Internationalization Library for v8",
  "URL": "http://code.google.com/p/v8-i18n/",
  "License": "Apache 2.0",
},
os.path.join('third_party', 'WebKit'): {
  "Name": "WebKit",
  "URL": "http://webkit.org/",
  "License": "BSD and GPL v2",
  # Absolute path here is resolved as relative to the source root.
  "License File": "/third party/WebKit/LICENSE FOR ABOUT CREDITS",
},
os.path.join('third_party', 'webpagereplay'): {
  "Name": "webpagereplay",
  "URL": "http://code.google.com/p/web-page-replay",
  "License": "Apache 2.0",
  "License File": "NOT_SHIPPED",
},
os.path.join('tools', 'gyp'): {
  "Name": "gyp",
  "URL": "http://code.google.com/p/gyp",
  "License": "BSD",
  "License File": "NOT_SHIPPED",
},
os.path.join('v8'): {
```

```
"Name": "V8 JavaScript Engine",
    "URL": "http://code.google.com/p/v8",
    "License": "BSD",
  },
 os.path.join('v8', 'strongtalk'): {
    "Name": "Strongtalk",
    "URL": "http://www.strongtalk.org/",
    "License": "BSD",
    # Absolute path here is resolved as relative to the source root.
    "License File": "/v8/LICENSE.strongtalk",
  },
 os.path.join('v8', 'fdlibm'): {
    "Name": "fdlibm",
    "URL": "http://www.netlib.org/fdlibm/",
    "License": "Freely Distributable",
    # Absolute path here is resolved as relative to the source root.
    "License File" : "/v8/LICENSE.fdlibm",
    "License Android Compatible" : "yes",
  },
 os.path.join('third_party', 'khronos_glcts'): {
    # These sources are not shipped, are not public, and it isn't
    # clear why they're tripping the license check.
    "Name": "khronos_glcts",
    "URL": "http://no-public-url",
    "License": "Khronos",
    "License File": "NOT SHIPPED",
  },
 os.path.join('tools', 'telemetry', 'third_party', 'gsutil'): {
    "Name": "gsutil",
    "URL": "https://cloud.google.com/storage/docs/gsutil",
    "License": "Apache 2.0",
    "License File": "NOT_SHIPPED",
  },
 os.path.join('third_party', 'swiftshader'): {
    "Name": "SwiftShader",
    "URL": "https://swiftshader.googlesource.com/SwiftShader",
    "License": "Apache 2.0 and compatible licenses",
    "License Android Compatible": "yes",
    "License File": "/third_party/swiftshader/LICENSE.txt",
  },
}
# Special value for 'License File' field used to indicate that the license file
# should not be used in about:credits.
```

```
NOT_SHIPPED = "NOT_SHIPPED"
```

Paths for libraries that we have checked are not shipped on iOS. These are# left out of the licenses file primarily because we don't want to cause a

firedrill due to someone thinking that Chrome for iOS is using LGPL code # when it isn't. # This is a temporary hack; the real solution is crbug.com/178215 KNOWN NON IOS LIBRARIES = set([os.path.join('base', 'third_party', 'symbolize'), os.path.join('base', 'third_party', 'xdg_mime'), os.path.join('base', 'third party', 'xdg user dirs'), os.path.join('chrome', 'installer', 'mac', 'third_party', 'bsdiff'), os.path.join('chrome', 'installer', 'mac', 'third_party', 'xz'), os.path.join('chrome', 'test', 'data', 'third party', 'kraken'), os.path.join('chrome', 'test', 'data', 'third_party', 'spaceport'), os.path.join('chrome', 'third_party', 'mock4js'), os.path.join('chrome', 'third party', 'mozilla security manager'), os.path.join('third_party', 'WebKit'), os.path.join('third_party', 'angle'), os.path.join('third party', 'apple apsl'), os.path.join('third_party', 'apple_sample_code'), os.path.join('third party', 'ashmem'), os.path.join('third party', 'bspatch'), os.path.join('third_party', 'cacheinvalidation'), os.path.join('third party', 'cld'), os.path.join('third_party', 'codesighs'), os.path.join('third_party', 'flot'), os.path.join('third party', 'gtk+'), os.path.join('third_party', 'iaccessible2'), os.path.join('third party', 'iccipeg'), os.path.join('third party', 'isimpledom'), os.path.join('third_party', 'jsoncpp'), os.path.join('third party', 'khronos'), os.path.join('third party', 'libXNVCtrl'), os.path.join('third_party', 'libevent'), os.path.join('third_party', 'libjpeg'), os.path.join('third party', 'libusb'), os.path.join('third party', 'libva'), os.path.join('third_party', 'libxslt'), os.path.join('third_party', 'lss'), os.path.join('third_party', 'lzma_sdk'), os.path.join('third_party', 'mesa'), os.path.join('third_party', 'molokocacao'), os.path.join('third_party', 'motemplate'), os.path.join('third_party', 'mozc'), os.path.join('third_party', 'mozilla'), os.path.join('third_party', 'npapi'), os.path.join('third_party', 'ots'), os.path.join('third_party', 'ppapi'), os.path.join('third_party', 'qcms'), os.path.join('third_party', 're2'), os.path.join('third_party', 'safe_browsing'),

os.path.join('third_party', 'sfntly'), os.path.join('third_party', 'smhasher'), os.path.join('third_party', 'swiden_motion_sensor'), os.path.join('third_party', 'swiftshader'), os.path.join('third_party', 'swig'), os.path.join('third_party', 'talloc'), os.path.join('third_party', 'temalloc'), os.path.join('third_party', 'usb_ids'), os.path.join('third_party', 'v8-i18n'), os.path.join('third_party', 'yasm'), os.path.join('third_party', 'yasm'), os.path.join('v8', 'strongtalk'),

```
])
```

class LicenseError(Exception):

"""We raise this exception when a directory's licensing info isn't fully filled out."""

pass

def AbsolutePath(path, filename, root):

"""Convert a path in README.chromium to be absolute based on the source root."""

if filename.startswith('/'):

Absolute-looking paths are relative to the source root

(which is the directory we're run from).

```
absolute_path = os.path.join(root, filename[1:])
```

else:

absolute_path = os.path.join(root, path, filename)

if os.path.exists(absolute_path):

return absolute_path

return None

def ParseDir(path, root, require_license_file=True, optional_keys=None): """Examine a third_party/foo component and extract its metadata."""

```
if optional_keys is None:
    optional_keys = []
```

```
metadata[key] = line[len(field):]
```

```
# Check that all expected metadata is present.
errors = []
for key, value in metadata.iteritems():
    if not value:
    errors.append("couldn't find "" + key + "" line "
        "in README.chromium or licences.py "
        "SPECIAL_CASES")
```

```
# Special-case modules that aren't in the shipping product, so don't need
# their license in about:credits.
if metadata["License File"] != NOT_SHIPPED:
    # Check that the license file exists.
    for filename in (metadata["License File"], "COPYING"):
        license_path = AbsolutePath(path, filename, root)
        if license_path is not None:
            break
    if require_license_file and not license_path:
    errors.append("License file not found. "
            "Either add a file named LICENSE, "
```

"import upstream's COPYING if available, "

"or add a 'License File:' line to "

"README.chromium with the appropriate path.")

```
metadata["License File"] = license_path
```

if errors:

```
raise LicenseError(";\n".join(errors))
return metadata
```

def ContainsFiles(path, root):

```
"""Determines whether any files exist in a directory or in any of its
subdirectories."""
for _, dirs, files in os.walk(os.path.join(root, path)):
    if files:
        return True
    for vcs_metadata in VCS_METADATA_DIRS:
        if vcs_metadata in dirs:
            dirs.remove(vcs_metadata)
return False
```

def FilterDirsWithFiles(dirs_list, root):

If a directory contains no files, assume it's a DEPS directory for a # project not used by our current configuration and skip it. return [x for x in dirs_list if ContainsFiles(x, root)]

```
def FindThirdPartyDirs(prune_paths, root):
```

"""Find all third_party directories underneath the source root."""

third_party_dirs = set()

for path, dirs, files in os.walk(root):

```
path = path[len(root)+1:] # Pretty up the path.
```

```
if path in prune_paths:
```

dirs[:] = [] continue

Prune out directories we want to skip.

(Note that we loop over PRUNE_DIRS so we're not iterating over a

list that we're simultaneously mutating.)

for skip in PRUNE_DIRS:

if skip in dirs: dirs.remove(skip)

```
if os.path.basename(path) == 'third_party':
```

Add all subdirectories that are not marked for skipping.
for dir in dirs:
 dirpath = os.path.join(path, dir)

if dirpath not in prune_paths: third_party_dirs.add(dirpath)

```
# Don't recurse into any subdirs from here.
dirs[:] = []
continue
```

```
# Don't recurse into paths in ADDITIONAL_PATHS, like we do with regular
# third_party/foo paths.
```

if path in ADDITIONAL_PATHS: dirs[:] = []

```
for dir in ADDITIONAL_PATHS:
if dir not in prune_paths:
third_party_dirs.add(dir)
```

return third_party_dirs

```
def FindThirdPartyDirsWithFiles(root):
    third_party_dirs = FindThirdPartyDirs(PRUNE_PATHS, root)
    return FilterDirsWithFiles(third_party_dirs, root)
```

```
def ScanThirdPartyDirs(root=None):
"""Scan a list of directories and report on any problems we find."""
if root is None:
root = os.getcwd()
third_party_dirs = FindThirdPartyDirsWithFiles(root)
```

```
errors = []
for path in sorted(third_party_dirs):
    try:
        metadata = ParseDir(path, root)
    except LicenseError, e:
        errors.append((path, e.args[0]))
        continue
```

```
for path, error in sorted(errors):
    print path + ": " + error
```

```
return len(errors) == 0
```

```
def GenerateCredits(
```

```
file_template_file, entry_template_file, output_file, target_os):
"""Generate about:credits."""
```

```
def EvaluateTemplate(template, env, escape=True):
    """Expand a template with variables like {{foo}} using a
    dictionary of expansions."""
    for key, val in env.items():
        if escape:
            val = cgi.escape(val)
            val = val.replace("*/", "* /")
        template = template.replace('{{%s}}' % key, val)
    return template
```

```
root = os.path.join(os.path.dirname(___file__), '..')
third_party_dirs = FindThirdPartyDirs(PRUNE_PATHS, root)
if not file_template_file:
  file_template_file = os.path.join(root, 'components', 'about_ui',
                        'resources', 'about credits.tmpl')
if not entry_template_file:
  entry_template_file = os.path.join(root, 'components', 'about_ui',
                        'resources'.
                        'about_credits_entry.tmpl')
entry_template = open(entry_template_file).read()
entries = []
for path in third_party_dirs:
  try:
     metadata = ParseDir(path, root)
  except LicenseError:
     # TODO(phajdan.jr): Convert to fatal error (http://crbug.com/39240).
    continue
  if metadata['License File'] == NOT SHIPPED:
     continue
  if target_os == 'ios':
     # Skip over files that are known not to be used on iOS.
     if path in KNOWN_NON_IOS_LIBRARIES:
       continue
  env = {
     'name': metadata['Name'],
     'name-sanitized': metadata['Name'].replace(' ', '-'),
     'url': metadata['URL'],
     'license': open(metadata['License File'], 'rb').read(),
     'license-type': metadata['License']
  }
  entry = {
     'name': metadata['Name'],
     'content': EvaluateTemplate(entry_template, env),
  }
  entries.append(entry)
entries.sort(key=lambda entry: (entry['name'], entry['content']))
entries_contents = '\n'.join([entry['content'] for entry in entries])
file_template = open(file_template_file).read()
template_contents = "<!-- Generated by licenses.py; do not edit. -->"
template_contents += EvaluateTemplate(file_template,
                        {'entries': entries_contents},
                        escape=False)
```

if output_file:

```
with open(output_file, 'w') as output:
    output.write(template_contents)
else:
    print template_contents
```

return True

```
def main():
 parser = argparse.ArgumentParser()
 parser.add_argument('--file-template',
              help='Template HTML to use for the license page.')
 parser.add_argument('--entry-template',
              help='Template HTML to use for each license.')
 parser.add_argument('--target-os',
              help='OS that this build is targeting.')
 parser.add_argument('command', choices=['help', 'scan', 'credits'])
 parser.add argument('output file', nargs='?')
 args = parser.parse_args()
 if args.command == 'scan':
    if not ScanThirdPartyDirs():
      return 1
 elif args.command == 'credits':
    if not GenerateCredits(args.file_template, args.entry_template,
                  args.output_file, args.target_os):
      return 1
 else:
    print __doc__
    return 1
```

if __name__ == '__main__':
 sys.exit(main())
#!/usr/bin/env python
Copyright (c) 2012 The Chromium Authors. All rights reserved.
Use of this source code is governed by a BSD-style license that can be
found in the LICENSE file.

"""Makes sure that all files contain proper licensing information."""

import json import optparse import os.path import subprocess import sys def PrintUsage():

print """Usage: python checklicenses.py [--root <root>] [tocheck]

--root Specifies the repository root. This defaults to "../.." relative to the script file. This will be correct given the normal location of the script in "<root>/tools/checklicenses".

--ignore-suppressions Ignores path-specific license whitelist. Useful when trying to remove a suppression/whitelist entry.

tocheck Specifies the directory, relative to root, to check. This defaults to "." so it checks everything.

Examples: python checklicenses.py python checklicenses.py --root ~/chromium/src third_party"""

WHITELISTED_LICENSES = ['APSL (v2) BSD (4 clause)', 'APSL (v2)', 'Anti-Grain Geometry', 'Apache (v2.0) BSD (2 clause)', 'Apache (v2.0) BSD-like', 'Apache (v2.0) GPL (v2)', 'Apache (v2.0) ISC', 'Apache (v2.0)', 'Apple MIT', # https://fedoraproject.org/wiki/Licensing/Apple_MIT_License 'BSD (2 clause) ISC', 'BSD (2 clause) MIT/X11 (BSD like)', 'BSD (2 clause)', 'BSD (3 clause) GPL (v2)', 'BSD (3 clause) ISC', 'BSD (3 clause) LGPL (v2 or later)', 'BSD (3 clause) LGPL (v2.1 or later)', 'BSD (3 clause) MIT/X11 (BSD like)', 'BSD (3 clause)', 'BSD (4 clause)', 'BSD', 'BSD-like',

TODO(phajdan.jr): Make licensecheck not print BSD-like twice.'BSD MIT/X11 (BSD like)','BSD-like MIT/X11 (BSD like)',

'BSL (v1.0)', 'BSL (v1) LGPL (v2.1 or later)', 'FreeType (BSD like) with patent clause', 'FreeType (BSD like)',

'GPL (v2 or later) with Bison parser exception',

'GPL (v2 or later) with libtool exception',

'GPL (v2) LGPL (v2.1 or later)',

'GPL (v3 or later) LGPL (v2.1 or later) with Bison parser exception',

'GPL (v3 or later) with Bison parser exception',

'GPL with Bison parser exception',

'ISC',

'Independent JPEG Group License',

'LGPL (unversioned/unknown version)',

'LGPL (v2 or later)',

'LGPL (v2)',

'LGPL (v2.1 or later)',

'LGPL (v2.1)',

'LGPL (v3 or later)',

'MIT/X11 (BSD like) LGPL (v2.1 or later)',

'MIT/X11 (BSD like)',

'MIT/X11 (BSD like) Public domain MIT/X11 (BSD like)',

'MPL (v1.0) LGPL (v2 or later)',

'MPL (v1.1) BSD (3 clause) GPL (v2) LGPL (v2.1 or later)',

'MPL (v1.1) BSD (3 clause) LGPL (v2.1 or later)',

'MPL (v1.1) BSD-like GPL (unversioned/unknown version)',

'MPL (v1.1) BSD-like GPL (v2) LGPL (v2.1 or later)',

'MPL (v1.1) BSD-like LGPL (v2.1 or later)',

'MPL (v1.1) BSD-like',

'MPL (v1.1) GPL (unversioned/unknown version)',

'MPL (v1.1) GPL (v2) LGPL (v2 or later)',

'MPL (v1.1) GPL (v2) LGPL (v2.1 or later)',

'MPL (v1.1) GPL (v2)',

'MPL (v1.1) LGPL (v2 or later)',

'MPL (v1.1) LGPL (v2.1 or later)',

'MPL (v1.1)',

'MPL (v2.0)',

'Ms-PL',

'Public domain BSD (3 clause)',

'Public domain BSD',

'Public domain BSD-like',

'Public domain LGPL (v2.1 or later)',

'Public domain University of Illinois/NCSA Open Source License (BSD like)',

'Public domain',

'SGI Free Software License B',

'SunSoft (BSD like)',

'libpng',

'zlib/libpng',

'University of Illinois/NCSA Open Source License (BSD like)',

('University of Illinois/NCSA Open Source License (BSD like) '

'MIT/X11 (BSD like)'),

]

```
PATH_SPECIFIC_WHITELISTED_LICENSES = {
 'base/third_party/icu': [ # http://crbug.com/98087
    'UNKNOWN'.
 ],
 'base/third_party/libevent': [ # http://crbug.com/98309
    'UNKNOWN',
 1,
 # http://code.google.com/p/google-breakpad/issues/detail?id=450
 'breakpad/src': [
    'UNKNOWN',
 ],
 'buildtools/third_party/libc++/trunk/test': [
    # http://llvm.org/bugs/show bug.cgi?id=25980
    'UNKNOWN',
 ],
 # http://llvm.org/bugs/show bug.cgi?id=25976
 'buildtools/third_party/libc++/trunk/src/include/atomic_support.h': [
   'UNKNOWN'
 ],
 'buildtools/third_party/libc++/trunk/utils/gen_link_script': [ 'UNKNOWN' ],
 'buildtools/third party/libc++/trunk/utils/not': [ 'UNKNOWN' ],
  'buildtools/third party/libc++/trunk/utils/sym check': ['UNKNOWN'],
  'buildtools/third_party/libc++abi/trunk/test': [ 'UNKNOWN' ],
 'chrome/common/extensions/docs/examples': [ # http://crbug.com/98092
    'UNKNOWN',
 1,
 # This contains files copied from elsewhere from the tree. Since the copied
 # directories might have suppressions below (like simplejson), whitelist the
 # whole directory. This is also not shipped code.
 'chrome/common/extensions/docs/server2/third_party': [
    'UNKNOWN'.
 1,
 'native_client': [ # http://crbug.com/98099
    'UNKNOWN',
 ],
 'native_client/toolchain': [
    'BSD GPL (v2 or later)',
    'BSD (2 clause) GPL (v2 or later)',
    'BSD (3 clause) GPL (v2 or later)',
    'BSD (4 clause) ISC',
    'BSL (v1.0) GPL',
    'BSL (v1.0) GPL (v3.1)',
```

```
'GPL',
  'GPL (unversioned/unknown version)',
  'GPL (v2)',
  'GPL (v2 or later)',
  'GPL (v3.1)',
  'GPL (v3 or later)',
  'MPL (v1.1) LGPL (unversioned/unknown version)',
],
# The project is BSD-licensed but the individual files do not have
# consistent license headers. Also, this is just used in a utility
# and not shipped. https://github.com/waylan/Python-Markdown/issues/435
'third party/Python-Markdown': [
  'UNKNOWN',
],
'third_party/WebKit': [
  'UNKNOWN',
],
# https://bugs.chromium.org/p/swiftshader/issues/detail?id=1
'third_party/swiftshader': [
  'UNKNOWN',
],
# http://code.google.com/p/angleproject/issues/detail?id=217
'third party/angle': [
  'UNKNOWN',
],
# http://crbug.com/603946
# https://github.com/google/oauth2client/issues/331
# Just imports googleapiclient. Chromite is not shipped.
'third_party/chromite/third_party/apiclient': [
  'UNKNOWN',
],
# http://crbug.com/603946
# https://github.com/google/google-api-python-client/issues/216
# Apache (v2.0) license. Chromite is not shipped.
'third_party/chromite/third_party/googleapiclient/channel.py': [
  'UNKNOWN'.
],
# http://crbug.com/222828
# http://bugs.python.org/issue17514
'third_party/chromite/third_party/argparse.py': [
  'UNKNOWN',
```

],

```
# http://crbug.com/603939
# http://github.com/jcgregorio/httplib2/issues/307
# MIT license. Chromite is not shipped.
'third_party/chromite/third_party/httplib2': [
    'UNKNOWN',
],
# http://crbug.com/326117
```

```
# https://bitbucket.org/chrisatlee/poster/issue/21
'third_party/chromite/third_party/poster': [
    'UNKNOWN',
```

],

```
# http://crbug.com/603944
# https://github.com/kennethreitz/requests/issues/1610
# Apache (v2.0) license. Chromite is not shipped
'third_party/chromite/third_party/requests': [
    'UNKNOWN',
],
```

```
_
```

```
# http://crbug.com/333508
'buildtools/clang_format/script': [
    'UNKNOWN',
```

```
],
```

```
# https://bugs.chromium.org/p/chromium/issues/detail?id=655755
'third_party/dpkg-dev': [
    'GPL (v2 or later)',
```

```
],
```

```
'third_party/devscripts': [
    'GPL (v2 or later)',
],
'third_party/catapult/firefighter/default/tracing/third_party/devscripts': [
    'GPL (v2 or later)',
],
'third_party/catapult/tracing/third_party/devscripts': [
    'GPL (v2 or later)',
],
# https://github.com/shazow/apiclient/issues/8
# MIT license.
'third_party/catapult/third_party/apiclient': [
    'UNKNOWN',
```

```
],
```

```
# https://bugs.launchpad.net/beautifulsoup/+bug/1481316
# MIT license.
'third_party/catapult/third_party/beautifulsoup': [
  'UNKNOWN'
],
# https://bitbucket.org/ned/coveragepy/issue/313/add-license-file-containing-2-3-or-4
# Apache (v2.0) license, not shipped
'third_party/catapult/third_party/coverage': [
  'UNKNOWN'
],
# https://code.google.com/p/graphy/issues/detail?id=6
# Apache (v2.0)
'third_party/catapult/third_party/graphy': [
  'UNKNOWN'.
],
# https://github.com/GoogleCloudPlatform/gsutil/issues/305
('third_party/catapult/third_party/gsutil/gslib/third_party/'
'storage apitools'): [
  'UNKNOWN',
],
# https://github.com/google/apitools/issues/63
'third_party/catapult/third_party/gsutil/third_party/apitools': [
  'UNKNOWN',
],
# https://github.com/boto/boto/issues/3373
'third_party/catapult/third_party/gsutil/third_party/boto': [
  'UNKNOWN',
],
# https://bitbucket.org/cmcqueen1975/crcmod/issues/1/please-add-per-file-licenses
# Includes third_party/catapult/third_party/gsutil/third_party/crcmod_osx.
'third_party/catapult/third_party/gsutil/third_party/crcmod': [
  'UNKNOWN',
],
# https://github.com/jcgregorio/httplib2/issues/307
'third_party/catapult/third_party/gsutil/third_party/httplib2': [
  'UNKNOWN',
],
# https://github.com/google/oauth2client/issues/331
'third_party/catapult/third_party/gsutil/third_party/oauth2client': [
  'UNKNOWN'.
```

```
# https://github.com/google/protorpc/issues/14
'third_party/catapult/third_party/gsutil/third_party/protorpc': [
  'UNKNOWN',
],
# https://sourceforge.net/p/pyasn1/tickets/4/
# Includes
# third party/catapult/third party/gsutil/third party/pyasn1-modules.
'third_party/catapult/third_party/gsutil/third_party/pyasn1': [
  'UNKNOWN',
1,
# https://github.com/pnpnpn/retry-decorator/issues/4
'third_party/catapult/third_party/gsutil/third_party/retry-decorator': [
  'UNKNOWN',
1,
# https://bitbucket.org/sybren/python-rsa/issues/28/please-add-per-file-licenses
'third_party/catapult/third_party/gsutil/third_party/rsa': [
  'UNKNOWN',
],
# https://bitbucket.org/gutworth/six/issues/137/please-add-per-file-licenses
# Already fixed upstream. https://crbug.com/573341
'third_party/catapult/third_party/gsutil/third_party/six': [
  'UNKNOWN',
1,
# https://github.com/html5lib/html5lib-python/issues/125
# MIT license.
'third_party/catapult/third_party/html5lib-python': [
  'UNKNOWN',
],
# https://github.com/GoogleCloudPlatform/appengine-mapreduce/issues/71
# Apache (v2.0)
'third_party/catapult/third_party/mapreduce': [
  'UNKNOWN'.
],
# https://code.google.com/p/webapp-improved/issues/detail?id=103
# Apache (v2.0).
'third_party/catapult/third_party/webapp2': [
  'UNKNOWN',
```

```
],
```

],

```
# https://github.com/Pylons/webob/issues/211
# MIT license.
'third_party/catapult/third_party/WebOb': [
  'UNKNOWN',
],
# https://github.com/Pylons/webtest/issues/141
# MIT license.
'third_party/catapult/third_party/webtest': [
  'UNKNOWN'.
],
# https://bitbucket.org/ianb/paste/issues/12/add-license-headers-to-source-files
# MIT license.
'third_party/catapult/third_party/Paste': [
  'UNKNOWN',
],
'third_party/expat/files/lib': [ # http://crbug.com/98121
  'UNKNOWN',
],
'third_party/ffmpeg': [
  'GPL',
  'GPL (v2)',
  'GPL (v2 or later)',
  'GPL (v3 or later)',
  'UNKNOWN', # http://crbug.com/98123
],
'third_party/fontconfig': [
  # https://bugs.freedesktop.org/show_bug.cgi?id=73401
  'UNKNOWN',
],
'third_party/freetype2': [ # http://crbug.com/177319
  'UNKNOWN',
],
'third_party/freetype-android': [ # http://crbug.com/177319
  'UNKNOWN'.
],
'third_party/grpc': [ # https://github.com/grpc/grpc/issues/6951
  'UNKNOWN'.
],
'third_party/hunspell': [ # http://crbug.com/98134
  'UNKNOWN',
],
'third_party/iccjpeg': [ # http://crbug.com/98137
  'UNKNOWN',
],
'third_party/icu': [ # http://crbug.com/98301
```

```
'UNKNOWN',
],
'third_party/jmake': [ # Used only at build time.
  'GPL (v2)',
],
'third_party/jsoncpp/source': [
  # https://github.com/open-source-parsers/jsoncpp/issues/234
  'UNKNOWN',
],
'third party/junit/src': [
  # Pulled in via DEPS for Android only.
  # Eclipse Public License / not shipped.
  # Bug filed but upstream prefers not to fix.
  # https://github.com/junit-team/junit/issues/1132
  'UNKNOWN',
],
'third_party/lcov': [ # http://crbug.com/98304
  'UNKNOWN',
],
'third_party/lcov/contrib/galaxy/genflat.pl': [
  'GPL (v2 or later)',
],
'third_party/libjpeg_turbo': [ # http://crbug.com/98314
  'UNKNOWN',
],
# Many liblouis files are mirrored but not used in the NaCl module.
# They are not excluded from the mirror because of lack of infrastructure
# support. Getting license headers added to the files where missing is
# tracked in https://github.com/liblouis/liblouis/issues/22.
'third_party/liblouis/src': [
  'GPL (v3 or later)',
  'UNKNOWN',
],
# The following files lack license headers, but are trivial.
'third_party/libusb/src/libusb/os/poll_posix.h': [
  'UNKNOWN',
],
'third_party/libvpx/source': [ # http://crbug.com/98319
  'UNKNOWN'.
],
'third_party/libxml': [
  'UNKNOWN'.
],
'third_party/libxslt': [
  'UNKNOWN'.
```

```
],
'third_party/lzma_sdk': [
  'UNKNOWN',
],
'third_party/mesa/src': [
  'GPL (v2)',
  'GPL (v3 or later)',
  'MIT/X11 (BSD like) GPL (v3 or later) with Bison parser exception',
  'UNKNOWN', # http://crbug.com/98450
],
'third_party/modp_b64': [
  'UNKNOWN',
1,
# Missing license headers in openh264 sources: https://github.com/cisco/openh264/issues/2233
'third_party/openh264/src': [
  'UNKNOWN',
],
'third party/openmax dl/dl': [
  'Khronos Group',
],
'third_party/opus/src/autogen.sh' : [ # https://trac.xiph.org/ticket/2253#ticket
  'UNKNOWN',
],
'third_party/boringssl': [
  # There are some files in BoringSSL which came from OpenSSL and have no
  # license in them. We don't wish to add the license header ourselves
  # thus we don't expect to pass license checks.
  'UNKNOWN',
1,
'third_party/molokocacao': [ # http://crbug.com/98453
  'UNKNOWN',
1,
'third_party/ocmock/OCMock': [ # http://crbug.com/98454
  'UNKNOWN',
1,
'third_party/protobuf': [ # http://crbug.com/98455
  'UNKNOWN'.
],
# https://bitbucket.org/ned/coveragepy/issue/313/add-license-file-containing-2-3-or-4
# BSD 2-clause license.
'third_party/pycoverage': [
  'UNKNOWN',
],
'third_party/pyelftools': [ # http://crbug.com/222831
  'UNKNOWN',
],
```

```
'third_party/scons-2.0.1/engine/SCons': [ # http://crbug.com/98462
  'UNKNOWN',
],
'third_party/sfntly/src/java': [ # Apache 2.0, not shipped.
  'UNKNOWN',
],
'third_party/simplejson': [
  'UNKNOWN',
],
'third_party/skia': [ # http://crbug.com/98463
  'UNKNOWN',
],
'third_party/snappy/src': [ # http://crbug.com/98464
  'UNKNOWN',
],
'third_party/smhasher/src': [ # http://crbug.com/98465
  'UNKNOWN',
],
'third_party/speech-dispatcher/libspeechd.h': [
  'GPL (v2 or later)',
],
'third_party/sqlite': [
  'UNKNOWN',
1,
# New BSD license. http://crbug.com/98455
'tools/swarming_client/third_party/google': [
  'UNKNOWN',
],
# https://github.com/google/google-api-python-client/issues/216
# Apache v2.0.
'tools/swarming_client/third_party/googleapiclient': [
  'UNKNOWN',
],
# http://crbug.com/334668
# https://github.com/jcgregorio/httplib2/issues/307
# MIT license.
'tools/swarming_client/third_party/httplib2': [
  'UNKNOWN',
],
# http://crbug.com/471372
#BSD
'tools/swarming_client/third_party/pyasn1': [
  'UNKNOWN',
],
```

```
# https://github.com/kennethreitz/requests/issues/1610
'tools/swarming_client/third_party/requests': [
  'UNKNOWN',
],
# BSD License. http://bugzilla.maptools.org/show bug.cgi?id=2532
'third_party/pdfium/third_party/libtiff/tif_ojpeg.c': [
  'UNKNOWN',
1,
'third_party/pdfium/third_party/libtiff/tiffvers.h': [
  'UNKNOWN',
1,
'third_party/pdfium/third_party/libtiff/uvcode.h': [
  'UNKNOWN',
1,
'third party/talloc': [
  'GPL (v3 or later)',
  'UNKNOWN', # http://crbug.com/98588
],
'third_party/tcmalloc': [
  'UNKNOWN', # http://crbug.com/98589
],
'third_party/tlslite': [
  'UNKNOWN',
],
# MIT license but some files contain no licensing info. e.g. autogen.sh.
# Files missing licensing info are not shipped.
'third_party/wayland': [ # http://crbug.com/553573
  'UNKNOWN',
],
'third_party/webdriver': [ # http://crbug.com/98590
  'UNKNOWN',
],
# https://github.com/html5lib/html5lib-python/issues/125
# https://github.com/KhronosGroup/WebGL/issues/435
'third_party/webgl/src': [
  'UNKNOWN',
],
'third_party/webrtc': [ # http://crbug.com/98592
  'UNKNOWN',
],
'third_party/xdg-utils': [ # http://crbug.com/98593
  'UNKNOWN',
],
```

```
'third_party/yasm/source': [ # http://crbug.com/98594
  'UNKNOWN',
],
'third_party/zlib/contrib/minizip': [
  'UNKNOWN',
],
'third party/zlib/trees.h': [
  'UNKNOWN',
],
'tools/emacs': [ # http://crbug.com/98595
  'UNKNOWN',
],
'tools/gyp/test': [
  'UNKNOWN',
],
'tools/python/google/__init__.py': [
  'UNKNOWN',
],
'tools/stats_viewer/Properties/AssemblyInfo.cs': [
  'UNKNOWN',
],
'tools/symsrc/pefile.py': [
  'UNKNOWN',
1,
# Not shipped, MIT license but the header files contain no licensing info.
'third_party/catapult/telemetry/third_party/altgraph': [
  'UNKNOWN',
],
# Not shipped, MIT license but the header files contain no licensing info.
'third_party/catapult/telemetry/third_party/modulegraph': [
  'UNKNOWN',
1,
'third_party/catapult/telemetry/third_party/pyserial': [
  # https://sourceforge.net/p/pyserial/feature-requests/35/
  'UNKNOWN',
],
# Not shipped, GPL license but some header files contain no licensing info.
'third_party/logilab/logilab/astroid': [
  'GPL (v2 or later)',
  # https://github.com/PyCQA/astroid/issues/336
  'UNKNOWN',
],
# Not shipped, GPL license but some header files contain no licensing info.
'third_party/logilab/logilab/common': [
  'GPL (v2 or later)',
  # Look for email by nednguyen@google.com in May 5th in
  # https://lists.logilab.org/pipermail/python-projects/
  'UNKNOWN'.
```

```
],
# Not shipped, GPL license but some header files contain no licensing info.
'third_party/pylint': [
    'GPL (v2 or later)',
    # https://github.com/PyCQA/pylint/issues/894
    'UNKNOWN',
],
}
```

```
EXCLUDED_PATHS = [
```

```
# Don't check generated files
'out/',
```

Don't check downloaded goma client binaries
'build/goma/client',

Don't check sysroot directories
'build/linux/debian_jessie_arm64-sysroot',
'build/linux/debian_wheezy_amd64-sysroot',
'build/linux/debian_wheezy_i386-sysroot',
'build/linux/debian_wheezy_mips-sysroot',
'build/linux/ubuntu_precise_amd64-sysroot',

]

```
def check_licenses(options, args):
# Figure out which directory we have to check.
if len(args) == 0:
 # No directory to check specified, use the repository root.
 start_dir = options.base_directory
elif len(args) == 1:
 # Directory specified. Start here. It's supposed to be relative to the
 # base directory.
 start_dir = os.path.abspath(os.path.join(options.base_directory, args[0]))
else:
 # More than one argument, we don't handle this.
 PrintUsage()
 return 1
print "Using base directory:", options.base_directory
print "Checking:", start_dir
print
licensecheck_path = os.path.abspath(os.path.join(options.base_directory,
                                'third_party',
                                'devscripts',
                                'licensecheck.pl'))
```

```
licensecheck = subprocess.Popen([licensecheck_path,
                   '-1', '100',
                   '-r', start_dir],
                   stdout=subprocess.PIPE,
                   stderr=subprocess.PIPE)
stdout, stderr = licensecheck.communicate()
if options.verbose:
 print '-----' licensecheck stdout -----'
 print stdout
 print '----- end licensecheck stdout ------'
if licensecheck.returncode != 0 or stderr:
 print '-----' licensecheck stderr -----'
 print stderr
 print '----- end licensecheck stderr ------'
 print "\nFAILED\n"
 return 1
used_suppressions = set()
errors = []
for line in stdout.splitlines():
 filename, license = line.split(':', 1)
 filename = os.path.relpath(filename.strip(), options.base_directory)
 # Check if the file belongs to one of the excluded paths.
 if any((filename.startswith(path) for path in EXCLUDED_PATHS)):
  continue
 # For now we're just interested in the license.
 license = license.replace('*No copyright*', ").strip()
 # Skip generated files.
 if 'GENERATED FILE' in license:
  continue
 if license in WHITELISTED_LICENSES:
  continue
 if not options.ignore_suppressions:
  matched_prefixes = [
    prefix for prefix in PATH_SPECIFIC_WHITELISTED_LICENSES
    if filename.startswith(prefix) and
    license in PATH_SPECIFIC_WHITELISTED_LICENSES[prefix]]
  if matched_prefixes:
   used_suppressions.update(set(matched_prefixes))
   continue
```

errors.append({'filename': filename, 'license': license})

if options.json: with open(options.json, 'w') as f: json.dump(errors, f) if errors: for error in errors: print "'%s' has non-whitelisted license '%s"' % (error['filename'], error['license']) print "\nFAILED\n" print "Please read", print "http://www.chromium.org/developers/adding-3rd-party-libraries" print "for more info how to handle the failure." print print "Please respect OWNERS of checklicenses.py. Changes violating" print "this requirement may be reverted." # Do not print unused suppressions so that above message is clearly # visible and gets proper attention. Too much unrelated output # would be distracting and make the important points easier to miss. return 1 print "\nSUCCESS\n" if not len(args): unused_suppressions = set(PATH_SPECIFIC_WHITELISTED_LICENSES.iterkeys()).difference(used suppressions) if unused_suppressions: print "\nNOTE: unused suppressions detected:\n" print '\n'.join(unused_suppressions) return 0

```
def main():
    default_root = os.path.abspath(
        os.path.join(os.path.dirname(__file__), '..', '..'))
    option_parser = optparse.OptionParser()
    option_parser.add_option('--root', default=default_root,
            dest='base_directory',
            help='Specifies the repository root. This defaults '
            'to "../.." relative to the script file, which '
            'will normally be the repository root.')
    option_parser.add_option('-v', '--verbose', action='store_true',
            default=False, help='Print debug logging')
```

if '__main__' == __name__:
sys.exit(main())
set noparent
phajdan.jr@chromium.org
thestig@chromium.org
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- Adapted from Ruby on Rails http://dev.rubyonrails.org/browser/spinoffs/prototype/src
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That's all there is to it!

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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- topographic model from Elevation model 2 m (U4421B, U4421D, U4422A and U4422C) 08/2014

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--- assimpGIT/code/Version.cpp 2016-12-08 14:13:07.000000000 -0500

+++ assimp/code/Version.cpp 2016-12-08 14:10:08.000000000 -0500

@@-1,3+1,36@@

+/*

+-----

+Open Asset Import Library (assimp)

+-----

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+-----

+*/

// Actually just a dummy, used by the compiler to build the precompiled header.
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```
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\enddiv
*/
```

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The following files contain macros that enable users to build Qt-based projects using CMake.

\list

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\li \c qtbase/src/dbus/Qt5DBusMacros.cmake
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Version 2.1, February 1999

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

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1.16 QXmpp 0.3

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This file contains a list of people who've made non-trivial

contribution to the Google C++ Testing Framework project. People

who commit code to the project are encouraged to add their names

here. Please keep the list sorted by first names.

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