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 * (Deinst@world.std.com). David and I are now
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 * Special thanks also go to La'szlo' Ne'meth
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1.5 libcurl 7.51.0

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1.6 libjson 7.6.1

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1.7 libsrtp 1.5.4

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#!/bin/sh

Wrapper for Microsoft lib.exe

me=ar-lib

scriptversion=2012-03-01.08; # UTC

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Written by Peter Rosin <peda@lysator.liu.se>.

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1.9 log4cxx 0.10.0

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* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL project

* 2000.

*/

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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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* $Id: easy-tls.c,v 1.4 2002/03/05 09:07:16 bodo Exp $
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1.14 qca 2.0.3

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* Kitware, Inc.

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

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Version 3, 29 June 2007

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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

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

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//

// See <http://www.boost.org/libs/container> for documentation.

//

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

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP

include <boost/config.hpp>

#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)

pragma once

#endif

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

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

#include <boost/move/detail/type_traits.hpp>

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

#include <cstddef>

namespace boost {

namespace container {

namespace container_detail {

```

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

```

```

template <class 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 <cstdint>

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;

```

```

using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::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_TMPL(TNAME)\
template <typename T, typename DefaultType>
struct boost_intrusive_eval_default_type_ ## TNAME
{
    template <typename X>
    static char test(int, typename X::TNAME*);

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

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

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

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

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

```

```

//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAIT_PREFIX,
TYPEDEF_TO_FIND) \
template <class T>\
struct TRAIT_PREFIX##_bool\
{\
    template<bool Add>\
    struct two_or_three {yes_type _[2 + Add];};\
    template <class U> static yes_type test(...);\
    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\
    static const std::size_t value = sizeof(test<T>(0));\
};\
\
template <class T>\
struct TRAIT_PREFIX##_bool_is_true\
{\
    static const bool value = TRAIT_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\
};\
//

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAIT_NAME,
FUNC_NAME) \
template <typename U, typename Signature> \
class TRAIT_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(TRAIT_NAME, FUNC_NAME) \
template <typename Type> \
struct TRAIT_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(TRAIT_NAME, \
FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAIT_NAME##_ignore_signature, FUNC_NAME) \
\
\
template <typename Type, class> \
struct TRAIT_NAME \
: public TRAIT_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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Version 3, 29 June 2007

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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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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 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.

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

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

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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

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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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Included here to compliment the Pthreads-win32 license header in wtf/ThreadingWin.cpp file. WebKit is using derived sources of ThreadCondition code from Pthreads-win32.

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(pthread_once cancellation added by rpj).

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reimplemented pthread_once with the same form

as described by A.Terekhov (later version 2);

implementation of MCS (Mellor-Crummey/Scott) locks.

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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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```

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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 = """
/*
 * 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('/\s*.*?*/', 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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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.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is

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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.

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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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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.

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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

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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

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- 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.

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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.

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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

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```
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```

```
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html lang="en">
```

```
<head>
```

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

```
<title>License / Copyright Information</title>
```

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

```
</head>
```

<body>

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| Ext headers | include/GL/glxt.h
include/GL/glxext.h | Khronos |

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Extracted from mac/include/DeckLinkAPI.h:

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

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

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NotoSansYi-Regular.ttf
NotoSerifArmenian-Bold.ttf
NotoSerifArmenian-Regular.ttf
NotoSerif-BoldItalic.ttf
NotoSerif-Bold.ttf
NotoSerifGeorgian-Bold.ttf
NotoSerifGeorgian-Regular.ttf
NotoSerif-Italic.ttf
NotoSerifKhmer-Bold.ttf
NotoSerifKhmer-Regular.ttf
NotoSerifLao-Bold.ttf
NotoSerifLao-Regular.ttf
NotoSerif-Regular.ttf
NotoSerifThai-Bold.ttf
NotoSerifThai-Regular.ttf
Roboto-BlackItalic.ttf
Roboto-Black.ttf
Roboto-BoldItalic.ttf
Roboto-Bold.ttf
RobotoCondensed-BoldItalic.ttf
RobotoCondensed-Bold.ttf
RobotoCondensed-Italic.ttf

RobotoCondensed-LightItalic.ttf
RobotoCondensed-Light.ttf
RobotoCondensed-Regular.ttf
Roboto-Italic.ttf
Roboto-LightItalic.ttf
Roboto-Light.ttf
Roboto-MediumItalic.ttf
Roboto-Medium.ttf
Roboto-Regular.ttf
Roboto-ThinItalic.ttf
Roboto-Thin.ttf

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AndroidClock_Highlight.ttf
AndroidClock_Solid.ttf
AndroidClock.ttf
AndroidEmoji.ttf
Clockopia.ttf
DroidKufi-Bold.ttf
DroidKufi-Regular.ttf
DroidNaskh-Bold.ttf
DroidNaskh-Regular.ttf
DroidNaskhUI-Regular.ttf
DroidSansArabic.ttf
DroidSansArmenian.ttf
DroidSans-Bold.ttf
DroidSansEthiopic-Bold.ttf
DroidSansEthiopic-Regular.ttf
DroidSansFallbackFull.ttf
DroidSansFallbackLegacy.ttf
DroidSansFallback.ttf
DroidSansGeorgian.ttf
DroidSansHebrew-Bold.ttf
DroidSansHebrew-Regular.ttf
DroidSansJapanese.ttf
DroidSansMono.ttf
DroidSans.ttf
DroidSerif-BoldItalic.ttf
DroidSerif-Bold.ttf
DroidSerif-Italic.ttf
DroidSerif-Regular.ttf
fallback_fonts.xml
MTLc3m.ttf
MTLmr3m.ttf
NotoColorEmoji.ttf
NotoSansBengali-Bold.ttf
NotoSansBengali-Regular.ttf

NotoSansBengaliUI-Bold.ttf
NotoSansBengaliUI-Regular.ttf
NotoSansDevanagari-Bold.ttf
NotoSansDevanagari-Regular.ttf
NotoSansDevanagariUI-Bold.ttf
NotoSansDevanagariUI-Regular.ttf
NotoSansKannada-Bold.ttf
NotoSansKannada-Regular.ttf
NotoSansKannadaUI-Bold.ttf
NotoSansKannadaUI-Regular.ttf
NotoSansKhmer-Bold.ttf
NotoSansKhmer-Regular.ttf
NotoSansKhmerUI-Bold.ttf
NotoSansKhmerUI-Regular.ttf
NotoSansLao-Bold.ttf
NotoSansLao-Regular.ttf
NotoSansLaoUI-Bold.ttf
NotoSansLaoUI-Regular.ttf
NotoSansMalayalam-Bold.ttf
NotoSansMalayalam-Regular.ttf
NotoSansMalayalamUI-Bold.ttf
NotoSansMalayalamUI-Regular.ttf
NotoSansSymbols-Regular.ttf
NotoSansTamil-Bold.ttf
NotoSansTamil-Regular.ttf
NotoSansTamilUI-Bold.ttf
NotoSansTamilUI-Regular.ttf
NotoSansTelugu-Bold.ttf
NotoSansTelugu-Regular.ttf
NotoSansTeluguUI-Bold.ttf
NotoSansTeluguUI-Regular.ttf
NotoSansThai-Bold.ttf
NotoSansThai-Regular.ttf
NotoSansThaiUI-Bold.ttf
NotoSansThaiUI-Regular.ttf
Roboto-BoldItalic.ttf
Roboto-Bold.ttf
RobotoCondensed-BoldItalic.ttf
RobotoCondensed-Bold.ttf
RobotoCondensed-Italic.ttf
RobotoCondensed-Regular.ttf
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Roboto-ThinItalic.ttf
Roboto-Thin.ttf

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NanumGothic.ttf

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Padauk-book.ttf

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PLY (Python Lex-Yacc) Version 3.4

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```
diff --git a/third_party/ply/__init__.py b/third_party/ply/__init__.py
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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+ # -----
```

```
__all__ = ['lex', 'yacc']
```

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Guang Xu
Jeffery Xu
Gang Yang
Li Yao
Jiessie Zhang
Rory Zhang
Volvett Zhang
Ling Zhu
James Zhu
Dong Zhang
Haibo Zhu
Huade Shi
include \$(SRC_PATH)build/arch.mk
SHAREDLIBSUFFIX = so
SHAREDLIBSUFFIXFULLVER=\$(SHAREDLIBSUFFIX).\$(FULL_VERSION)
SHAREDLIBSUFFIXMAJORVER=\$(SHAREDLIBSUFFIX).\$(SHAREDLIB_MAJORVERSION)
SHLDFLAGS = -Wl,-soname,\$(LIBPREFIX)\$(PROJECT_NAME).\$(SHAREDLIBSUFFIXMAJORVER)
CFLAGS += -fPIC
LDFLAGS += -lpthread
ifeq (\$(ASM_ARCH), x86)

```
ifeq ($(ARCH), x86_64)
ASMFLAGS += -f elf64
else
ASMFLAGS += -f elf
endif
endif
```

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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 * a * a * a * a * 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.

Legal

I, Matt McCutchen, the sole author of the original Big Integer Library, waive my copyright to it, placing it in the public domain. The library comes with absolutely no warranty.

~~~~~

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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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file\_io/unix/mktemp.c, strings/apr\_strings.c:

```
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From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

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From dso/aix/dso.c:

\* Based on libdl (dlfcn.c/dlfcn.h) which is

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.

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```
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**
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**   o reserve string buffer space in advance
**
**
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```
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* This code implements the MD5 message-digest algorithm.
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*
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```
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* By Steve Reid <sreid@sea-to-sky.net>
* 100% Public Domain
*
* -----
* Modified 7/98
* By James H. Brown <jbrown@burgoyne.com>
* Still 100% Public Domain
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//

// Written by Sarah Thompson (sarah@telergy.com) 2002.

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common\_audio/signal\_processing/spl\_sqrt\_floor\_arm.S

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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

License:

```
/*
 * SpanDSP - a series of DSP components for telephony
 *
 * g711.h - In line A-law and u-law conversion routines
 *
 * Written by Steve Underwood <steveu@coppice.org>
 *
 * Copyright (C) 2001 Steve Underwood
 *
 * Despite my general liking of the GPL, I place this code in the
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 * ones who might try to proprietize my work and use it to my
 * detriment.
 */
```

-----  
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modules/audio\_coding/codecs/g722/main/source/g722\_enc\_dec.h  
modules/audio\_coding/codecs/g722/main/source/g722\_encode.c

License:

```
/*
 * SpanDSP - a series of DSP components for telephony
 *
 * g722_decode.c - The ITU G.722 codec, decode part.
 *
 * Written by Steve Underwood <steveu@coppice.org>
 *
 * Copyright (C) 2005 Steve Underwood
 *
 * Despite my general liking of the GPL, I place my own contributions
 * to this code in the public domain for the benefit of all mankind -
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 *
 * Based in part on a single channel G.722 codec which is:
 *
 * Copyright (c) CMU 1993
 * Computer Science, Speech Group
 * Chengxiang Lu and Alex Hauptmann
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-----  
Files:

modules/audio\_device/mac/portaudio/pa\_memorybarrier.h  
modules/audio\_device/mac/portaudio/pa\_ringbuffer.c  
modules/audio\_device/mac/portaudio/pa\_ringbuffer.h

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  
\*  
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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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modules/audio\_processing/aec/aec\_rdfc.c

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system\_wrappers/source/condition\_variable\_event\_win.cc

Source:

<http://www1.cse.wustl.edu/~schmidt/ACE-copying.html>

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Files:

system\_wrappers/source/set\_thread\_name\_win.h

Source:

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

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system\_wrappers/source/spreadsortlib/constants.hpp

system\_wrappers/source/spreadsortlib/spreadsort.hpp

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```
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```

```
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```

```
#
```

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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
```

```
LIB_TO_LICENSES_DICT = {
```

```
    'boringssl': ['third_party/boringssl/src/LICENSE'],
```

```
    'expat': ['third_party/expat/files/COPYING'],
```

```
    'jsoncpp': ['third_party/jsoncpp/LICENSE'],
```

```
    'opus': ['third_party/opus/src/COPYING'],
```

```
    'protobuf_lite': ['third_party/protobuf/LICENSE'],
```

```
    'srtp': ['third_party/libsrtp/srtp/LICENSE'],
```

```
    'usrctp': ['third_party/usrctp/LICENSE'],
```

```
    'webrtc': ['webrtc/LICENSE', 'webrtc/LICENSE_THIRD_PARTY'],
```

```
    'vpx': ['third_party/libvpx/source/libvpx/LICENSE'],
```

```
    'yuv': ['third_party/libyuv/LICENSE'],
```

```
}
```

```
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: #e0e0e0; 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('<p>%s<br/></p>\n' % license_lib)
    output_license_file.write('<pre>\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('</pre>\n')

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

if __name__ == '__main__':
    parser = argparse.ArgumentParser(description='Generate WebRTC LICENSE.html')
    parser.add_argument('static_lib_dir',

```

```
        help='Directory with built static libraries.')
parser.add_argument('output_dir',
        help='Directory to output LICENSE.html to.')
args = parser.parse_args()
builder = LicenseBuilder()
sys.exit(builder.GenerateLicenseText(args.static_lib_dir, args.output_dir))
The MIT License (MIT)
```

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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 \$@ \$<

%. \$(STATIC\_O): \$(srcdir)/%.cpp

\$(COMPILE.cc) \$(STATICCPPFLAGS) \$(STATICCXXFLAGS) -o \$@ \$<

%.o: \$(srcdir)/%.cpp

\$(COMPILE.cc) \$(DYNAMICCPPFLAGS) \$(DYNAMICCXXFLAGS) -o \$@ \$<

## Dependency rules

%.d: \$(srcdir)/%.c

@echo "generating dependency information for \$<"

@\$(SHELL) -ec '\$(GEN\_DEPS.c) \$< \

| sed "s^\(\$\*\)\.o[ :]\*\1.o \$@ : /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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#
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# Dictionary: http://lao-dictionary.googlecode.com/git/Lao-Dictionary.txt
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*****
```

```
; This is a header file for the x264ASM assembly language, which uses
; NASM/YASM syntax combined with a large number of macros to provide easy
; abstraction between different calling conventions (x86_32, win64, linux64).
; It also has various other useful features to simplify writing the kind of
; DSP functions that are most often used in x264.
```

```
; Unlike the rest of x264, this file is available under an ISC license, as it
; has significant usefulness outside of x264 and we want it to be available
; to the largest audience possible. Of course, if you modify it for your own
; purposes to add a new feature, we strongly encourage contributing a patch
; as this feature might be useful for others as well. Send patches or ideas
; to x264-devel@videolan.org .
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.4, March 14th, 2010
```

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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  
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./test/eigen2/eigen2\_sparse\_product.cpp  
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./test/eigen2/eigen2\_smallvectors.cpp  
./test/eigen2/eigen2\_commainitializer.cpp  
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./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\_lu.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  
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./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\_misctrices.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  
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./test/diagonal.cpp  
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./test/sizeoverflow.cpp  
./bench/BenchTimer.h  
./bench/benchFFT.cpp  
./bench/eig33.cpp  
./bench/spbench/spbenchsolver.h  
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./lapack/complex\_double.cpp  
./lapack/cholesky.cpp  
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./test/metis\_support.cpp

./test/sparselu.cpp  
./unsupported/test/mpreal/mpreal.h  
./unsupported/Eigen/src/IterativeSolvers/IterationController.h  
./unsupported/Eigen/src/IterativeSolvers/ConstrainedConjGrad.h  
./unsupported/Eigen/src/Eigenvalues/ArpackSelfAdjointEigenSolver.h  
./Eigen/src/OrderingMethods/Amd.h  
./Eigen/src/SparseCholesky/SimplicialCholesky\_impl.h

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./unsupported/Eigen/src/LevenbergMarquardt/LevenbergMarquardt.h  
./unsupported/Eigen/src/LevenbergMarquardt/LMcovar.h  
./unsupported/Eigen/src/LevenbergMarquardt/LMonestep.h  
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|------------------|-------------------------------------------|----------------|------------------|
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| Device drivers   | src/mesa/drivers/*                        | See drivers    | See drivers      |
| Ext headers      | include/GL/gllex.h<br>include/GL/glxext.h | SGI            | SGI Free B       |
| GLUT             | src/glut/                                 | Mark Kilgard   | Mark's copyright |
| GLEW             | src/glew-1.13.0                           | Nigel Stewart  | Modified BSD     |
| Mesa GLU library | src/glu/mesa/                             | Brian Paul     | GNU-LGPL         |
| SGI GLU library  | src/glu/sgi/                              | SGI            | SGI Free B       |
| demo programs    | progs/demos/                              | various        | see source files |
| X demos          | progs/xdemos/                             | Brian Paul     | see source files |
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java/android\_libs/protobuf\_nano

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javascript/jquery\_ui

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javascript/tracing\_framework

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java\_src/android\_libs/protobuf\_nano/v2

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jpeg

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(extracted from src/README)

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libogg

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libunwind

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libvorbis

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libxcb

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libxml

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Libxml2, an XML C Parser

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lodepng

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minizip

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zlib

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mongoose

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openctm

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openssl

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stl

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utf

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UTF-8 Library

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xmpmeta

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xmpmeta. A fast XMP metadata parsing and writing library.

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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/txi2pod.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:

- freiOr
- 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.

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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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import json
import os
import sys

import common

def main_run(args):
    with common.temporary_file() as tempfile_path:
        rc = common.run_command([
            os.path.join(common.SRC_DIR, 'android_webview', 'tools',
                'webview_licenses.py'),
            'scan',
            '--json', tempfile_path
        ])

        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 common.temporary_file() as tempfile_path:
        rc = common.run_command([
            os.path.join(common.SRC_DIR, 'tools', 'checklicenses',
                          'checklicenses.py'),
            '--json', tempfile_path
        ])

        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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# found in the LICENSE file.
```

```
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'
    ]
    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
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# 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|.
```

```
"""
```

```
excluded_dirs_list = [d for d in excluded_dirs_list if not 'third_party' in d]
```

```
# Using a common pattern for third-parties makes the ignore regexp shorter
```

```
excluded_dirs_list.append('third_party')
```

```
path_join = input_api.os_path.join
```

```
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(
    r'\.(asm|c|cpp|xx)?|h(h|pp|xx)?|p(l|m)|xs|sh|php|py|(l|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 \
        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 = \
                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*'

```

```

def __init__(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'(?:\W|^)' + _CopyrightsScanner._copyright_indicator + \
            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 occurrences 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 \
                    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 \
    not _CopyrightsScanner._copyright_disindicator_re.match(m.group(1)):
    copyr = m.group(0)
    # Prettify the authorship string.
    copyr = self.re.sub(r'([\s]*)?\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'\s{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 <= 25:
                header.append(l)
            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 exclusively 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 %s\n'\
        '(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'
    ]
    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) One\n/\n// (b) Two\n'
        '/\n// (c) Three\n/\n',
        'See \'foo\' for copyright information.\n',
        'See \'foo\' for the copyright notice.\n',
        'See \'foo\' for the copyright and other things.\n'
    ]
    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'
    ]
    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'),
        ]
        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']),
        copyright_scanner.AnalyzeScanResults(self.input_api, \
            ['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_NW.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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#
# 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
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chrome/browser/importer/firefox_profile_lock.h
# Copyright Netscape Communications Corporation; MPL, GPL v2 or LGPL v2
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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/terms\_fr.html  
components/resources/terms/terms\_he.html  
components/resources/terms/terms\_hr.html  
components/resources/terms/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/terms\_lv.html  
components/resources/terms/terms\_ml.html  
components/resources/terms/terms\_nb.html  
components/resources/terms/terms\_nl.html  
components/resources/terms/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/terms\_te.html  
components/resources/terms/terms\_th.html  
components/resources/terms/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  
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content/renderer/history\_controller.cc

```

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content/renderer/history_entry.h
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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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# Mozilla, the license for which we already pick up from third_party/npapi/.
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net/http/http_auth_handler_ntlm_portable.cc
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net/http/md4.h
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# third-party code is taken from Mozilla, the license for which we already pick
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net/proxy/proxy_resolver_script.h
# 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
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tools/traceline/traceline/assembler.h
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tools/traceline/traceline/sidestep/mini_disassembler.cc

```

```

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ui/base/cocoa/tool_tip_base_view.mm
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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
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# 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

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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', 'bidich checker'),
```

```
    # 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', 'chromeos', 'autotest'),

os.path.join('chrome', 'test', 'data'),

os.path.join('native\_client'),

os.path.join('sdch', 'open-vcdiff'),

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/gutil",
    "License": "Apache 2.0",
    "License File": "NOT_SHIPPED",
},
os.path.join('third_party', 'swiftshader'): {
    "Name": "SwiftShader",
    "URL": "https://swiftshader.google.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', 'bsdifff'),
    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_appl'),
    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', 'iccjpeg'),

```

```

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', 'sudden_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', 'tcmalloc'),
os.path.join('third_party', 'usb_ids'),
os.path.join('third_party', 'v8-i18n'),
os.path.join('third_party', 'wtl'),
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."""

    # Parse metadata fields out of README.chromium.
    # We examine "LICENSE" for the license file by default.
    metadata = {
        "License File": "LICENSE", # Relative path to license text.
        "Name": None,             # Short name (for header on about:credits).
        "URL": None,              # Project home page.
        "License": None,          # Software license.
    }

    if optional_keys is None:
        optional_keys = []

    if path in SPECIAL_CASES:
        metadata.update(SPECIAL_CASES[path])
    else:
        # Try to find README.chromium.
        readme_path = os.path.join(root, path, 'README.chromium')
        if not os.path.exists(readme_path):
            raise LicenseError("missing README.chromium or licenses.py "
                               "SPECIAL_CASES entry")

        for line in open(readme_path):
            line = line.strip()
            if not line:
                break
            for key in metadata.keys() + optional_keys:
                field = key + ": "
                if line.startswith(field):
                    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](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',
  ],

  # 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',
],
# 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',
],
'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  
# https://github.com/jcgregorio/httpplib2/issues/307  
# MIT license. Chromite is not shipped.  
'third_party/chromite/third_party/httpplib2': [  
    '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/goutil/issues/305
('third_party/catapult/third_party/goutil/goslib/third_party/'
 'storage_apitools'): [
  'UNKNOWN',
],

# https://github.com/google/apitools/issues/63
'third_party/catapult/third_party/goutil/third_party/apitools': [

```

```

    'UNKNOWN',
  ],

# https://github.com/boto/boto/issues/3373
'third_party/catapult/third_party/goutil/third_party/boto': [
  'UNKNOWN',
],

# https://bitbucket.org/cmcqueen1975/crcmod/issues/1/please-add-per-file-licenses
# Includes third_party/catapult/third_party/goutil/third_party/crcmod_osx.
'third_party/catapult/third_party/goutil/third_party/crcmod': [
  'UNKNOWN',
],

# https://github.com/jcgregorio/httpplib2/issues/307
'third_party/catapult/third_party/goutil/third_party/httpplib2': [
  'UNKNOWN',
],

# https://github.com/google/oauth2client/issues/331
'third_party/catapult/third_party/goutil/third_party/oauth2client': [
  'UNKNOWN',
],

# https://github.com/google/protorpc/issues/14
'third_party/catapult/third_party/goutil/third_party/protorpc': [
  'UNKNOWN',
],

# https://sourceforge.net/p/pyasn1/tickets/4/
# Includes
# third_party/catapult/third_party/goutil/third_party/pyasn1-modules.
'third_party/catapult/third_party/goutil/third_party/pyasn1': [
  'UNKNOWN',
],

# https://github.com/pnnpnpn/retry-decorator/issues/4
'third_party/catapult/third_party/goutil/third_party/retry-decorator': [
  'UNKNOWN',
],

# https://bitbucket.org/sybren/python-rsa/issues/28/please-add-per-file-licenses
'third_party/catapult/third_party/goutil/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/goutil/third_party/six': [
    'UNKNOWN',
],

# 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://crlbug.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://crlbug.com/98450
],
'third_party/modp_b64': [
    'UNKNOWN',
],
# 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',
  ],
  'third_party/molokocacao': [ # http://crbug.com/98453
    'UNKNOWN',
  ],
  'third_party/ocmock/OCMock': [ # http://crbug.com/98454
    'UNKNOWN',
  ],
  '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',
],

# 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/httpplib2/issues/307
# MIT license.
'tools/swarming_client/third_party/httpplib2': [
    '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',
],
'third_party/pdfium/third_party/libtiff/tiffvers.h': [
    'UNKNOWN',
],
'third_party/pdfium/third_party/libtiff/uvcode.h': [
    'UNKNOWN',
],

'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://crlbug.com/553573
  'UNKNOWN',
],
'third_party/webdriver': [ # http://crlbug.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://crlbug.com/98592
  'UNKNOWN',
],
'third_party/xdg-utils': [ # http://crlbug.com/98593
  'UNKNOWN',
],
'third_party/yasm/source': [ # http://crlbug.com/98594
  'UNKNOWN',
],
'third_party/zlib/contrib/minizip': [
  'UNKNOWN',
],
'third_party/zlib/trees.h': [
  'UNKNOWN',
],
'tools/emacs': [ # http://crlbug.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',
],
# 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',
  ],
  '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_arm-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,
                                     '-l', '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')
    option_parser.add_option('--ignore-suppressions',
        action='store_true',
        default=False,
        help='Ignore path-specific license whitelist.')
    option_parser.add_option('--json', help='Path to JSON output file')
    options, args = option_parser.parse_args()
    return check_licenses(options, args)

```

```

if '__main__' == __name__:
    sys.exit(main())
set noperent
phajdan.jr@chromium.org
thestig@chromium.org
Copyright (c) 2009 Google Inc. All rights reserved.

```

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open-vcdiff

<https://github.com/google/open-vcdiff>

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Prototype 1.5 rc0

- Adapted from Ruby on Rails - <http://dev.rubyonrails.org/browser/spinoffs/prototype/src>
- By Lunarmedia, 06 August, 2006
- Available at (and packed with) JavascriptCompressor.com

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raytrace.js contains code from the the Prototype JavaScript framework, version 1.5.0:

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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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Version 3, 29 June 2007

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```

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^tools/utills/qtcreator/

--- 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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Changes:

- Rings created from the reference rectangle file.

- `earthcloudmapcolortrans.png` was made from the `earthcloudmapspec.jpg` file

`cubemaps`: See `cubemaps/miramar/README.TXT`

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\brief Provides additional information about the licensing of run-time dependencies of Qt for Android
```

The Android platform does not provide a full implementation of the C++ run-time. Instead, apps that depend on features such as STL, exceptions, or RTTI, must include an additional native run-time library that provides the features they need.

When built with g++, Qt will use the GNU libstdc++ library which is distributed as part of the Google Android NDK. Qt Creator will copy this library into the .APK for any Qt-based Android app. The library

will then be loaded by the app on start-up to meet the run-time requirements of Qt. The GNU C++ run-time is licensed under the

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#

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdfplib.c

src/bdf/module.mk

src/bdf/README

src/bdf/rules.mk

#

src/pcf/module.mk

src/pcf/pcf.c

src/pcf/pcf.h

src/pcf/pcfdrivr.c

src/pcf/pcfdrivr.h

src/pcf/pcferror.h

src/pcf/pcfread.c

src/pcf/pcfread.h

src/pcf/pcfutil.c

src/pcf/pcfutil.h

```
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/ftrandom/ftrandom.c
#
# EOF
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```
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```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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## 1.16 QXmpp 0.3

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### 34912.0

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## 1.23 UIAComWrapper 1.1.0.14

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#### SPECIAL EXCEPTION FOR LZMA COMPRESSION MODULE

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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  
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