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* Added generation of field number constants.
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* Fixed initialization ordering problem in logging code.
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* Small patch improving performance of in Python serialization.
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* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
* HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only
once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
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Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xLC compiler build issues
* Added atomicops for AIX (POWER)

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1.8 gettcp6table-from-msdn 2018-08-05

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1.9openh264 1.7

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```
include $(SRC_PATH)build/arch.mk
SHAREDLIBSUFFIX = so
SHAREDLIBSUFFIXFULLVER=$(SHAREDLIBSUFFIX).$(FULL_VERSION)
SHAREDLIBSUFFIXMAJORVER=$(SHAREDLIBSUFFIX).$(SHAREDLIB_MAJORVERSION)
SHLDFLAGS = -Wl,-soname,$(LIBPREFIX)$ (PROJECT_NAME).$(SHAREDLIBSUFFIXMAJORVER)
CFLAGS += -fPIC -fstack-protector-all
LDFLAGS += -lpthread
STATIC_LDFLAGS += -lpthread -lm
ifeq ($(ASM_ARCH), x86)
ifeq ($(ARCH), x86_64)
ASMFLAGS += -f elf64
else
ASMFLAGS += -f elf
```



```
endif  
endif  
# Contributors to the OpenH264 project
```

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Paley Du
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Yi Guo
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1.10 easywsclient 1.0

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1.11 curl 7.51.0

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License Mixing

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

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>) licensed code is not allowed to be linked with code licensed under the [Original BSD license](<https://spdx.org/licenses/BSD-4-Clause.html>) (with the

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Uses an [MIT style license](<https://curl.haxx.se/docs/copyright.html>) that is very liberal.

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libressl

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c-ares

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zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

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OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2

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1.12 libjson 7.6.1

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1.13 open-ldap 2.4.48

1.14 hunspell 1.6.1

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*

* An almost complete rewrite of MySpell for use by
* the Mozilla project has been developed by David Einstein
* (Deinst@world.std.com). David and I are now
* working on parallel development tracks to help
* our respective projects (Mozilla and OpenOffice.org
* and we will maintain full affix file and dictionary
* file compatibility and work on merging our versions
* of MySpell back into a single tree. David has been
* a significant help in improving MySpell.

*

* Special thanks also go to La'szlo' Ne'meth
* <nemethl@gyorsposta.hu> who is the author of the
* Hungarian dictionary and who developed and contributed
* the code to support compound words in MySpell
* and fixed numerous problems with the encoding
* case conversion tables.

*

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1.16 tufao 0.6

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1.20 rfc4122 1

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1.21 qca 2.0.3

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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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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.)

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1.22 libwebp 0.5.2

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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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# bugs to <bug-automake@gnu.org> or send patches to
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```

1.23 blowfishc++encryptionalgorithm 1.0

1.23.1 Available under license :

The Blowfish Encryption Algorithm
Block cipher: 64-bit block
Variable key length: 32 bits to 448 bits
Designed by Bruce Schneier
Much faster than DES and IDEA
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1.24 rsamd5c++implementation 1.02

1.24.1 Available under license :

MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm

MDDRIVER.C - test driver for MD2, MD4 and MD5

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1.25 qt 5.12.4

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1.26 webrtc 55

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base/md5.h

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base/sha1.h

base/sigslot.cc

base/sigslot.h

common_audio/fft4g.c

common_audio/signal_processing/spl_sqrt_floor.c

common_audio/signal_processing/spl_sqrt_floor_arm.S

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

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

modules/audio_coding/codecs/g722/main/source/g722_decode.c

modules/audio_coding/codecs/g722/main/source/g722_enc_dec.h

modules/audio_coding/codecs/g722/main/source/g722_encode.c

modules/audio_coding/codecs/isac/main/source/fft.c

modules/audio_device/mac/portaudio/pa_memorybarrier.h

modules/audio_device/mac/portaudio/pa_ringbuffer.c

modules/audio_device/mac/portaudio/pa_ringbuffer.h
modules/audio_processing/aec/aec_rdfc.c
system_wrappers/source/condition_variable_event_win.cc
system_wrappers/source/set_thread_name_win.h
system_wrappers/source/spreadsortlib/constants.hpp
system_wrappers/source/spreadsortlib/spreadsort.hpp

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Files:

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base/base64.h

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```
/**
 * *****
 */
/* Base64 - a simple base64 encoder and decoder.
 */
/* Copyright (c) 1999, Bob Withers - bwit@pobox.com
 */
/* This code may be freely used for any purpose, either personal
 */ or commercial, provided the authors copyright notice remains
 */ intact.
 */
/* Enhancements by Stanley Yamane:
 */ o reverse lookup table for the decode function
 */ o reserve string buffer space in advance
 */
/**
 * *****
 */
```

Files:

base/md5.cc
base/md5.h

License:

```
/*
 * This code implements the MD5 message-digest algorithm.
 * The algorithm is due to Ron Rivest. This code was
 * written by Colin Plumb in 1993, no copyright is claimed.
 * This code is in the public domain; do with it what you wish.
 *
 */
```

Files:

base/sha1.cc
base/sha1.h

License:

```
/*
 * SHA-1 in C
 */
```

* By Steve Reid <sreid@sea-to-sky.net>
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*
* -----
* Modified 7/98
* By James H. Brown <jbrown@burgoyne.com>
* Still 100% Public Domain
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Files:

base/sigslot.cc
base/sigslot.h

License:

// sigslot.h: Signal/Slot classes
//
// Written by Sarah Thompson (sarah@telergy.com) 2002.
//
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Files:

common_audio/signal_processing/spl_sqrt_floor.c
common_audio/signal_processing/spl_sqrt_floor_arm.S

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

Files:

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
*
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* public domain for the benefit of all mankind - even the slimy
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* detriment.
*/

Files:

modules/audio_coding/codecs/g722/main/source/g722_decode.c
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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* to my detriment.
*
* 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
*/

Files:

modules/audio_coding/codecs/isac/main/source/fft.c

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* It is also implicitly understood that bug fixes and improvements
* should make their way back to the general Internet community so
* that everyone benefits.
*/

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

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

```

* single-thread writer.
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Files:

common_audio/fft4g.c

modules/audio_processing/aec/aec_rdfc.c

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/*

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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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