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хс_ст	XC_CT_PRJ_RN_AIVI_Scope3.x	11 <sup>th</sup> Sept 2023	

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GCC Runtime Library Exception 3.1 to GPL 3.0

Version 3.1, 31 March 2009

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# 3.2.Supplier : Android\_OMR1

Supplier:Android_OMR1				
Name of OSS Component	Version	License	Home Page	Copyrights
ARM trusted firmaware BL31		BSD2		
AVB Media Clock Recovery Handler driver		GPL v2/MIT		
AVB Media Streaming Engine driver		GPL v2/MIT		
AVB Streaming driver		GPL v2/MIT		
boot_control		Apache v2		
device.renesas.common		Apache v2		
device.renesas.kingfisher		Apache v2		
device.renesas.salvator		Apache v2		
device.renesas.ulcb		Apache v2		
Dynamic Trusted Application Note		BSD2		
evs		Apache v2		
gatekeeper		Apache v2		
HWComposer		Apache v2		
interfaces.graphics.composer		Apache v2		
IPL		BSD		
Kernel		GPL v2		
keymaster		Apache v2		
LensPicker		Apache v2		
libLLVMIMG.so		University of Illinois/NCSA Open Source License		
libstagefrighthw		Apache v2		
Memory Manager Driver		GPL v2/MIT		
Memory Manager I/F		MIT		
NetworkDisplayDemo		Apache v2		
Oemlock		Apache v2		



OP-TEE (including TEE internal API)	BSD2	
OP-TEE Linux driver	GPL v2/MIT	
Overview	Apache v2	
patch files for i2c-tools	GPL v2	
QoS driver	GPL v2/MIT	
QoS I/F	MIT	
R8A7795 GX6650 Device Driver for Android	GPL v2/MIT	
R8A7796 GX6250 Device Driver for Android	GPL v2/MIT	
Settings file of usb fw	Apache v2	
si-tools	GPL v3	
SPI / HyperFlash driver	BSD2	
SS6.3-Public Driver for Linux	GPL v2/MIT	
Timer driver	BSD2	
U-Boot	GPL v2	
UVCS Driver for Android	GPL v2/MIT	
VSP Manager	GPL v2/MIT	
VSP Manager I/F	MIT	
VSPM I/F Driver	GPL v2/MIT	

# 3.3. Supplier: Apertis

Supplier: Apertis				
Name of OSS Component	Version	License	Home Page	Copyrights
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yajl	2.1.0-3ba1	ISC	Copyright (c) 2007- 2014, Lloyd Hilaiel Copyright (c) 2010- 2011 Florian Forster Copyright: 2011 John Stamp

## 3.4.Supplier : CGI

Supplier: CGI				
Name of OSS Component	Version	License	Home Page	Copyrights
ANGLE		BSD 3-Clause		
		License		
Autodesk® FBX® SDK		Autodesk®		
		FBX® SDK		
		2014 License		
		Agreement		
AvalonDock		BSD 3-Clause		
		License		
AvalonEdit		LGPLv2.1		
Bitstream Vera Fonts		Bitstream Vera		
		Fonts		
		Copyright		
BMFont		BMFont		
		License		
DevIL Image Library		LGPLv2.1		
DotNetZip Library		Microsoft		
		Public License		
		(Ms-PL)		
Extended WPF Toolkit		Microsoft		
		Public License		
		(Ms-PL)		
EPPlus Library		LGPLv2.1		
Free Type Engine		Freetype		
		Project License		
GLEW Library		MIT License		

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Google Test	BSD 3-Clause	
0 10	License	
GraphSharp	Apache 2.0 License	
HarfBuzz Text Shaping Engine / UCDN - Unicode Database and Normalization	HarfBuzz / UCDN License	
ICU	ICU License	
json-cpp JSON reader and writer in C++	Json-cpp License	
Libktx	Libktx License	
Libunibreak Library	Libunibreak License	
Log4Net	Apache 2.0 License	
Median Cut algorithm (C Plus	Creative	
Plus)	Commons CC0 1.0 Universal	
Microsoft Unity Container	Microsoft Public License (Ms-PL)	
NCalc	MIT License.	
NEUQUANT Neural-Net quantization algorithm	NEUQUANT Neural-Net quantization algorithm license	
OpenGL ES	OpenGL Licensing Programs	
Prism (Composite Application Guidance for WPF and Silverlight)	Microsoft Public License (Ms-PL)	
RLAD Compression	RLAD Compression license	
SharpSvn (Subversion Client	Apache 2.0	
API for .Net)	License	
Unicode.org Bidi Reference Implementation	Unicode Inc. License Agreement	
WPF PropertyGrid Control	Apache 2.0 License	
Xerces-C++ XML Parser	Apache 2.0 License	
ZLIB Data Compression Library	ZLIB Data Compression Library License Agreement	



3.5. Supplier: Escrypt

Supplier : Escrypt				
Name of OSS	Versi	License	Home	Copyrights
Component	on		Page	
The ASN.1 Compiler	asn1 c- 0.9.2 1 asn1 c- 0.9.2 6	BSD (Two Clause License)		Copyright © 2003-2016 Lev Walkin <vlm@lionet.info> and contributors, Copyright © 2003, 2004 X/IO Labs, xiolabs.com</vlm@lionet.info>
Base64_encode_deco de_Stack overflow	2/16/ 2015	Creativecommons Attribution ShareAlike 3.0		© 2015 stack exchange inc
libcurl	7.22	Curl License		Copyright (c) 1996 - 2016, Daniel Stenberg, daniel@haxx.se.
libdbus	1.4.1 8	Academic Free License v2.1		Copyright (C) 2003-2004 Lawrence E. Rosen Copyright (C) 1989, 1991 Free Software Foundation, Inc.

## 3.6.Supplier : LG Innotek

	Supplier: LG Innotek				
Name of OSS Component	Version	License	Home Page	Copyrights	
abi	Android4.4	BSD-3-Clause	http://developer.an droid.com/index.ht ml	Copyright (C) 2011 The Android Open Source Project All rights reserved.	
adb	1.0.31	BSD-3-Clause AND Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (c) 1988 Regents of the University of California. * All rights reserved. Copyright (c) 2006-2009, 2012 The Android Open Source Project Copyright 2006, Brian Swetland <swetland@frot z.net=""></swetland@frot>	
android-clat	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht	Copyright 2010- 2012 Daniel	



			ml	Drown
applypatch	Android4.4	BSD-2-Clause AND Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2009 The Android Open Source Project
aprd	Android4.4	GPL-2.0-only	http://developer.an droid.com/index.ht ml	Source Project
atrace	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2012 The Android Open Source Project
audioflinger	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (c) 2005-2009,2012 The Android Open Source Project
autotest	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2012,2014 The Android Open Source Project
bluedroid	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 1999-2012 Broadcom Corporation
bmgr	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (c) 2009, The Android Open Source Project
bugreport	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2009 The Android Open Source Project
busybox	1.17.1	GPL-2.0-only	http://developer.an droid.com/index.ht ml	Copyright (C) 1998-2009 Erik Andersen, Rob Landley, Denys Vlasenko and others
common_tim e	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (c) 2005- 2008,2011-2012 The Android Open Source Project
compress_si mu	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2011 The Android Open Source Project
connectivity manager	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (c) 2013, The Android Open Source Project



custom_mmi	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2016 The Android Open Source Project Copyright (C) 2016 SpreadTrum Inc.
debuggerd	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2005-2008, 2011-2012 The Android Open Source Project
dhcp6	Android4.4	BSD-3-Clause AND ISC AND BSD-4-Clause-UC AND Apache- 2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 1998-2004 WIDE Project. All rights reserved.
dhcpcd	5.5.6	BSD-2-Clause AND BSD-3-Clause AND ISC AND Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (c) 1990, 1993 The Regents of the University of California. All rights reserved. Copyright (c) 2006-2008 Roy Marples <roy@marples. name=""> All rights reserved Copyright 2006- 2012 Roy Marples <roy@marples. name=""> All rights reserved Copyright (c) 2004,2007 by Internet Systems Consortium, Inc. ("ISC") Copyright (c) 1996-2003 by Internet Software Consortium Copyright 2011, The Android Open Source Project</roy@marples.></roy@marples.>
dnsmasq	2.51	GPL-2.0-or-later	http://developer.an droid.com/index.ht ml	Copyright (C) 2000-2009 Simon Kelley

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drmserver	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (c) 2005-2008,2010 The Android Open Source Project
dumpdata	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2008 The Android Open Source Project
dumpstate	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2008,2013 The Android Open Source Project
dumpsys	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2005-2008 The Android Open Source Project
e2fsprogs	1.41.14	GPL-2.0-or-later AND LGPL-2.0-or-later AND BSD-3-Clause AND MIT	http://developer.an droid.com/index.ht ml	Copyright 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 by Theodore Ts'o. Copyright 1990, 1991, 1992 Free Software Foundation, Inc. Written May 1989 by Mike Haertel. Copyright (C) 1985-2005 by the Massachusetts Institute of Technology. All rights reserved. Copyright (C) 1996-1999,2003,2007 Theodore Ts'o. Copyright 1999 Andreas Dilger (adilger@enel.u calgary.ca) Copyright (c) 1988 Regents of the University of California. All rights reserved.

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				Copyright (c) 1997, 1998, 2001 Kungliga Tekniska Högskolan (Royal Institute of Technology, Stockholm, Sweden). All rights reserved. Copyright 1986, 1987, 1988,2003 by MIT Information Systems and the MIT Student Information Processing Board
expat	2.1	MIT	http://developer.an droid.com/index.ht ml	Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd and Clark Cooper Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006 Expat maintainers.
factorytest	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2006,2007,2014 The Android Open Source Project Copyright (C) 2014 The CyanogenMod Project
filterfw	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2011 The Android Open Source Project
filterpacks	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2011 The Android Open Source Project
framework- base-data	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2008 The Android Open Source Project copyright ©

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				2007, Google Corporation.Reg ularAscender - Droid SansVersion 1.00 copyright Google 2013 Google:Roboto: 2013Roboto RegularVersion 1.200310
framework- native-data	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2006-2013 The Android Open Source Project
freetype	2.4.2	FTL AND MIT	http://developer.an droid.com/index.ht ml	Copyright 1996- 2002, 2006 by David Turner, Robert Wilhelm, and Werner Lemberg Copyright (C) 2000, 2001, 2002 by Francesco Zappa Nardelli
gcc- demangle	4.6	GPL-2.0-or-later AND LGPL-2.0-or-later	http://developer.an droid.com/index.ht ml	Copyright 1992, 1993, 1994, 1995, 1996, 1997, 1998, 2000, 2001, 2002, 2003, 2004, 2005, 2007, 2008, 2009, 2010 ↑ Free Software Foundation, Inc. Copyright ↑ (C) 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 Free Software Foundation, Inc. Written by lan Lance Taylor <ian@wasabisy stems.com="">.</ian@wasabisy>
ge2_libgps	GPS_GLO GE2_W17.4 0.5	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2010 The Android Open
harfbuzz_ng	0.9.14	MIT	http://developer.an	Source Project Copyright ©

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healthd	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	2009 Martin Hosken and SIL International Copyright © 2007 Chris Wilson Copyright © 2006 Behdad Esfahbod Copyright © 2005 David Turner Copyright © 2004,2007,2008 ,2009,2010 Red Hat, Inc. Copyright © 1998-2004 David Turner and Werner Lemberg Copyright (C) 2012 Grigori Goronzy <greg@kinoho. net=""> Copyright (C) 2013 The Android Open</greg@kinoho.>
icu4c	49.1.1	ICU	http://developer.an droid.com/index.ht ml	Source Project Copyright (c) 1995-2012 International Business Machines Corporation and others All rights reserved.
ime	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (c) 2007, The Android Open Source Project
input	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (c) 2007, The Android Open Source Project
iosnoop.sh	Android4.4	GPL-2.0-or-later	http://developer.an droid.com/index.ht ml	COPYRIGHT: Copyright (c) 2014 Brendan Gregg.
iotat	Android4.4	Apache-2.0 AND GPL-2.0-only	http://developer.an droid.com/index.ht ml	Copyright 2006,2007 The Android Open Source Project

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iproute2	ss120521	GPL-2.0-or-later	http://developer.an droid.com/index.ht ml	Copyright (C) 2012 Spreadtrum Communication s Inc. Alexey Kuznetsov, <kuznet@ms2.i nr.ac.ru=""> Copyright (C)2004,2006- 2007 USAGI/WIDE Project</kuznet@ms2.i>
ipsec-tools (racoon)	0.7.3	BSD-3-Clause	http://developer.an droid.com/index.ht ml	Copyright (C) 1995-2003 WIDE Project. Copyright (C) 2004-2006 Emmanuel Dreyfus All rights reserved. Copyright (C) 2004 SuSE Linux AG, Nuernberg, Germany. Contributed by: Michal Ludvig <mludvig@suse .cz="">, SUSE Labs All rights reserved. Copyright 2000 Wasabi Systems, Inc. All rights reserved. Copyright (C) 2005 International Business Machines Corporation Copyright (c) 2005 by Trusted Computer Solutions, Inc. All rights reserved. Copyright 2000 Aaron D. Gifford. All rights reserved.</mludvig@suse>

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iptables	1.4.20	GPL-2.0-or-later AND Artistic-2.0	http://developer.an droid.com/index.ht ml	(C) 1999-2006 by the netfilter coreteam <coreteam@net filter.org="">: Paul 'Rusty' Russell <rusty@rustcor p.com.au=""> Marc Boucher <marc+nf@mbsi .ca=""> James Morris <jmorris@interc ode.com.au=""> Harald Welte <laforge@ gnumonks.org="" ↑=""> Jozsef Kadlecsik <kadlec@black hole.kfki.hu=""> Copyright © Jan Engelhardt, 2011</kadlec@black></laforge@></jmorris@interc></marc+nf@mbsi></rusty@rustcor></coreteam@net>
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iwnpi	Android4.4	MIT	http://developer.an droid.com/index.ht ml	Copyright (c) 2007, 2008 Johannes Berg Copyright (c) 2007 Andy Lutomirski Copyright (c) 2007 Mike Kershaw Copyright (c) 2008-2009 Luis R. Rodriguez Copyright (c) 2013 Wenjie Zhang Copyright (c) 2014 Huiquan Zhou
jpeg	Android4.4	BSD-3-Clause AND IJG AND Apache-2.0 AND Zlib	http://developer.an droid.com/index.ht ml	Copyright (C) 2009-2011 Nokia Corporation and/or its subsidiary(-ies). All rights reserved. Contact: Alexander Bokovoy <alexander.bok m="" ovoy@nokia.co=""> Copyright (C) 2007- 2008,2010-2011 The Android Open Source Project Copyright (C) 2010-2011 Intel Corporation</alexander.bok>
Kernel	4.4	GPL-2.0-only	http://developer.an droid.com/index.ht ml	Copyright (C) 1989, 1991 Free Software Foundation, Inc.
keystore	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2008-2009, 2011-2013 The Android Open Source Project
keystore- engine	Android4.4	BSD-2-Clause	http://developer.an droid.com/index.ht ml	Copyright 2012- 2013 The Android Open

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1.1			1	Source Project
libandroid	Android4.4	Apache-2.0	http://developer.an	Copyright (C)
			droid.com/index.ht	2009, 2010 The
			ml	Android Open
111 1 1 1	0 1 114 4	1 1 2 2	1 // 1	Source Project
libandroid_s	Android4.4	Apache-2.0	http://developer.an	Copyright (C)
ervers			droid.com/index.ht	2006-2013 The
			ml	Android Open
1:1 1 : 16	Android4.4	A 1 0 0	1 1 1 1 1	Source Project
libandroidfw	Android4.4	Apache-2.0	http://developer.an	Copyright (c)
			droid.com/index.ht ml	2005-2008,2010 The Android
			1111	Open Source
				Project
liboproid rup	Android4.4	DCD 2 Clause AND Apoche 2.0	http://dov.olon.or.on	
libanroid_run time	Android4.4	BSD-3-Clause AND Apache-2.0	http://developer.an droid.com/index.ht	Copyright (c) 2011-2012
ume			ml	Google Inc. All
			1111	rights reserved.
				Copyright 2011,
				The Android
				Open Source
				Project
				Copyright (C)
				2005-2013 The
				Android Open
				Source Project
libbinder	Android4.4	Apache-2.0	http://developer.an	Copyright (C)
	, ararora ivi	7.100.10 2.10	droid.com/index.ht	2005-2009,2013
			ml	The Android
				Open Source
				Project
libbt	Android4.4	Apache-2.0	http://developer.an	Copyright (C)
		·	droid.com/index.ht	2009-2012
			ml	Broadcom
				Corporation
libbt-client-	Android4.4	Apache-2.0	http://developer.an	Copyright (C)
api			droid.com/index.ht	2009-2011
			ml	Broadcom
				Corporation
libc	Android4.4	BSD-3-Clause AND BSD-2-	http://developer.an	Copyright (C)
		Clause	droid.com/index.ht	2008-
			ml	2009,2011-2013
				The Android
				Open Source
				Project. All
				rights reserved.
				Copyright (c)
				2010-2013,
				Linaro Limited
				All rights
libo	A m al a : a ! 4 . 4	DCD 2 Clause AND DCD 4	http://day.ala.ca.a	reserved.
libc	Android4.4	BSD-3-Clause AND BSD-4-	http://developer.an	Copyright (c)
		Clause-UC	droid.com/index.ht	2010, 2011 Intel
			ml	Corporation

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htop	1.0.3	GNU Genera I Public License v2.0 or later	http://github.com/hishamhm/htop/	

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imx_usb_loader	Unspecif ied	GNU Lesser Genera I Public License v2.1 or later	http://github.com/boundarydevices/imx_usb_load er/
Info-Zip	3.0	Info- ZIP Update d License	http://www.info-zip.org/pub/infozip/Zip.html
lperf	2.0.5	Iperf License	http://sourceforge.net/projects/iperf/
IPTables	1.4.21	GNU Genera I Public License v2.0 or later	http://www.netfilter.org/
ISC DHCP	4.1.2	ISC License	http://www.isc.org/software/dhcp/
iw-ct	3.14	ISC License	http://github.com/greearb/iw-ct/
jquery	Unspecif ied	MIT License	http://github.com/jquery/jquery/
keyutils	1.5.9	GNU Genera I Public License v2.0 or later	http://people.redhat.com/~dhowells/keyutils/
Kmod_Linux	22	GNU Genera I Public License v2.0 or later	https://github.com/lucasdemarchi/kmod
Less	443	Less License	http://www.greenwoodsoftware.com/less/
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lrzsz	0.12.20	GNU Genera I Public License v2.0 or later	http://www.ohse.de/uwe/software/Irzsz.html
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luafilesystem	v_1_6_3	MIT License	http://github.com/keplerproject/luafilesystem/
Minicom	2.6.2	GNU Genera I Public License v2.0 or later	http://alioth.debian.org/projects/minicom/
mtd-utils	1.5.2	GNU Genera I Public License v2.0 or later	http://git.infradead.org/mtd-utils.git
ncurses	5.9	X11 License	https://www.gnu.org/software/ncurses/ncurses.html
Nettle	2.7.1	GNU Lesser Genera I Public License v2.1 or later	http://www.lysator.liu.se/~nisse/nettle/
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wpa_supplicant - IEEE 802.11i				Linux/Tools.html
wpa_supplicant - IEEE       2.5       BSD 3- clause "New" or "Revise d" License       http://hostap.epitest.fi/wpa_supplicant/         XZ Utils       5.0.4       Public Domain       http://tukaani.org/xz/ Domain         yajl       Unspecified       License       http://github.com/lloyd/yajl/ License         zlib       1.2.8,1.1       zlib       http://www.zlib.net				
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XC_CT	XC_CT_PRJ_RN_AIVI_Scope3.x	11 <sup>th</sup> Sept 2023

3.8. Supplier: Nuance

Spplier: Nuance					
Component	Version	License	Home Page	Copyright	
PCRE		BSD 3-Clause			
		"New" or			
		"Revised" License			

3.9. Supplier: OMRON

	Supplier: OMRON					
Componen Vers License Homepage Copyright						
SimString	1	The BSD license	http://www.chokkan.org/soft ware/simstring/	Copyright (c) 2009,2010 Naoaki Okazaki All rights reserved.		

3.10.Supplier : Real\_VNC\_3\_2

Supplier: Real_V	NC_3_2			
Component	Version	License	Homepage	Copyright
name				
aclocal and	aclocal	Free		Copyright © 1996, 1997,
pkg.m4	1.11.1	Software		1998, 1999, 2000, 2001,
		Foundati		2002, 2003, 2004, 2005,
		on - MIT		2006, 2007, 2008, 2009
		Style		FreeSoftware Foundation,
		License		Inc.
		GPL2.0+		Copyright © 2004 Scott
		wih		James Remnant
		Autoconf		<scott@netsplit.com>.</scott@netsplit.com>
		exception		
AES		Brian		Copyright © 2003 Dr Brian
		Gladman		Gladman, Worcester, UK.
		3-Clause		
		License		
	1000	or GPL		0 11/() 0005 0000
Android	19.0.0	Apache		Copyright (c) 2005-2008,
Support		License		The Android Open Source
Libraries		2.0		Project
ath9k_faf1dc64_		GNU		Copyright © 2014
backport.patch		General		Rajkumar Manoharan.
		Public		
		License		
		v2.0 or		
TLC	110	later		C
axTLS	1.1.8	BSD 3-		Copyright © 2007
(SHA1 only)		Clause		Cameron Rich. See
		"New" or		section 7.7.1

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Base64.java	2.3.7	Public domain	http://iharder/sourceforge.net/current/jav a/b ase64	
compat-wireless	1027gd4641 6c-p	GNU General Public License v2.0 or later		
EAX		Brian Gladman License		Copyright © 1998-2010 Dr Brian Gladman, Worcester, UK.
Endian		Brian Gladman 3-Clause License		Copyright © 2003 Dr Brian Gladman, Worcester, UK.
expat	2.0.1	MIT License		Copyright © 1998,1999, 2000 Thai Open Source Software center Ltd and Clark Cooper. Copyright © 2001, 2002, 2003, 2004, 2005, 2006 Expat maintainers.
ExtractMpeg FramesTest. java		Apache License 2.0	http://bigflake.com/mediacodec/ExtractM pe gFramesTest.java.txt	Copyright 2013, The Android Open Source Project
FreeType	2.5.5	FreeType Project license	www.freetype.org	Portions of this software are copyright © 2006 The FreeType Project
GCC libstdc++	4.1.2 4.4.5	GNU General Public License v2.0 or later	http://gcc.gnu.org/libstdc++	Copyright © 1994 to 2009 Free Software Foundation, Inc.
Internal Android OS APIs	android2.3.3 _r1 android4.0.1 _r1 android4.1.1 _r1 android4.2.1 _r1 android4.3 _r1 android4.4 _r1	Apache License 2.0		Copyright 2005-2013, The Android Open Source Project
JRTPLIB	3.9.1	MIT License	http://research.edm.uhasselt.be/~jori/.	
JThread	1.3.1	MIT License	http://research.edm.uhasselt.be/~jori/.	Copyright © 1999-2011 Ross Bencina and Phil



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keysymdef		MIT open group variant license Digital equipme nt license	/main/28	Copyright © 1987, 1994, 1998 The Open Group. Copyright © 1987 by Digital Equipment Corporation, Maynard, Massachusetts.
libjpegturbo	1.2.1	libjpeg license	http://sourceforge.net/projects/libjpegturbo/.	Copyright © 1991-2011 Thomas G. Lane, Guido Vollbeding, Pierre Ossman for Cendio AB, and D. R. Commander
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LibTomCrypt	1.16	Public domain	http://libtom.org	
LibTomMath	0.39	Public domain	http://libtom.org	
libudev	142 and 150	GNU Lesser General Public License v2.1 or later	http://www.kernel.org/pub/linux/utils/kernel/hotplug.	Copyright © 2008-2010 Key Sievers <key.sievers@vrfy.org> Copyright © 2009 Alan Jenkins <alanjenkins@tuffmail.co. uk&gt;</alanjenkins@tuffmail.co. </key.sievers@vrfy.org>
libupnp (pupnp)	1.6.19	BSD 3- Clause "New" or "Revised" License		Copyright (c) 2000-2003 Intel Corporation. Copyright (c) 2005-2006 Rémi Turboult <r3mi@users.sourceforge. net=""> Copyright (c) 2006 Michel Pfeiffer and others <virtual_worlds@gmx.de> . Copyright (c) 2011-2012 France Telecom.</virtual_worlds@gmx.de></r3mi@users.sourceforge.>
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libusbx	1.0.12	GNU Lesser General Public License v2.1 or later		Copyright © 2001 Johannes Erdfelt <johannes@erdfelt.com> Copyright © 2007-2009 Daniel Drake <dsd@gentoo.org> Copyright © 2008-2011 Nathan Hjelm</dsd@gentoo.org></johannes@erdfelt.com>

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			2002, 2004, 2005, 2006 Free Software Foundation,
			Inc.
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		License	Daniel Veillard
libzip	0.9	Free	Copyright © 1999-2008
		Software	Dieter Baron and Thomas
		Foundati	Klausner
		on	Copyright © 1994, 1995,
			1996, 1997, 1998, 1999,
			2000, 2001, 2002, 2003,
			2004, 2005, 2006, 2007,
			2008 Free Software
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			The Regents of the
			University of California
LodePNG	20141130	Zlib	Copyright © 2005-2014
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			Vandevenne.
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			Bernard
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		Clause	and 2005-2011 Thomas
		"New" or	Bernard. See section
		"Revised"	7.1.20
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		General	Semiconductor Inc. All
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		License v2.1 or	
		later	
OpenSSL	0.9.8zf	The	Copyright © 1998-2011
OpenSSL	0.3.021	OpenSSL	The OpenSSL Project.
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pythonpsutil_2.1. 3.bb	FSL Community BSP 1.6 (Daisy)	MIT license		Copyright © 2012-2014 Otavio Salvador.
Qt libraries	ARM builds: 4.7.1. Non-ARM builds: 4.6.2.	GNU Lesser General Public License v2.1 or later		Copyright © 2009-2011 Nokia Corporation and/or its subsidiary(-ies). Nokia, Qt and their respective logos are trademarks of Nokia Corporation in Finland and/or other countries worldwide.
SHA	38969	Dr Brian Gladman license Cameron Rich license		Copyright © 2002 Dr Brian Gladman, Worcester, UK
wpa_supplicant	2.3	BSD 3- Clause "New" or "Revised" License		Copyright © 2002-2014 Jouni Malinen and contributors.
X Windows	XFree86 1.9	The Open group license Digital Equipme nt cooperati on license Digital Equipme nt Corporati on - Panorami x compone nts		Copyright © 1987, 1988, 1989, 1998 The Open Group. See section 7.1.1.1. Copyright © 1987, 1988, 1989 Digital Equipment Corporation, Maynard, Massachusetts. See section 7.1.1.2. Copyright © 1991, 1997 Digital Equipment Corporation, Maynard, Massachusetts. See section 7.1.1.3
Zlib	1.1.4	Zlib license		Copyright © 1995-2002 Jean-loup Gailly and Mark

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			Adler. See section 7.1.2.
Zlib	1.2.3	Zlib	Copyright © 1995-2005
		license	Jean-Loup Gailly and
			Mark Adler.

# 3.11.Supplier : Redbend\_SWM

Supplier: Redbend_SWM					
Component	Version	License	Home Page	Copyrigh t	
action	0.1.1	Apache License 2.0	http://repo1.maven. org/maven2/com/ning/metrics.action/		
Android - platform - dalvik	2.1_r1	Apache License 2.0	http://developer.and roid.com/index.html		
Android - platform - frameworks - base	4.0.1_r1	Apache License 2.0	http://developer.and roid.com/index.html		
Android - platform - prebuilts - sdk	4.4_r1	Apache License 2.0	http://developer.and roid.com/index.html		
Android SDK Support Libraries	19	Apache License 2.0	https://developer.an droid.com/tools/sup port-library/index.html		
Android SDK Support Libraries	23.1.1	Apache License 2.0	https://developer.an droid.com/tools/sup port-library/index.html		
Drools :: Scorecards	5.5.0.Final	Apache License 2.0	http://mirrors.ibiblio. org/maven2/org/drools/droolsscorecards/		
mongolduu	master- 20121109	Apache License 2.0	http://github.com/tug stugi/mongolduu/		
Stan-for-Android	0.1.0	Apache License 2.0	http://github.com/La bel305/Stan-forAndroid/		
doT	1.0.1	MIT License	http://github.com/ola do/doT/		
jquery	2.0.3	MIT License	http://github.com/jqu ery/jquery/		
jquery_mobile_rail s	1.3.2	MIT License	http://rubygems.org/gems/jquery_mobile_rails		
SafeSlinger- Android	1.8.3- messenge r	MIT License	http://github.com/Sa feSlingerProject/Saf eSlinger-Android/		
OpenSSL	Generic Version	OpenSSL Combine d License	http://www.openssl.org/		
CRC32 MIT.edu	Generic Version	Public Domain	http://web.mit.edu/		
SHA-1 in C	9/1/2001	Public	http://www.mirrors.w iretapped.net/securit		

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		Domain	y/cryptography/hash es/sha1	
SyncML C Toolkit	4.0.3	SyncML	http://sourceforge.n	
		License	et/projects/syncmlctoolkit/	

## 3.12.Supplier : Redbend

Supplier: Redbend					
Component	Versio n	License	Home Page	Copyrigh t	
7 Zip - LZMA SDK	9.2	Public Domain	http://www.7-zip.org/sdk.html		
7 Zip - LZMA SDK	4.01	Public Domain.	http://sourceforge.net/projects/sevenzip/		
Android - platform - bootable - recovery	4.2	Apache License 2.0	http://developer.android.com/index.html		
Android - platform - system - core	4.2	Apache License 2.0	http://developer.android.com/index.html		
bsdiff	4.3	BSDiff license	http://github.com/geraldonetto/bsdiff/		
CMarkup	11.05	Acquired CMarkup Developer License	http://www.firstobject.com/dn_markup.htm		
CRC table (Autogen)	Has no version number	Public Domain	http://en.wikipedia.org/wiki/Cyclic_redundanc y_check		
Filesystem in Userspace	2.8.5	BSD 2- clause "Simplified" License	http://sourceforge.net/projects/fuse/		
Filesystem in Userspace	2.9.3	GNU Lesser General Public License v2.1 or later	http://sourceforge.net/projects/fuse/		
FreeBSD	2.2.2	BSD 4- clause "Original" or "Old" License	http://www.freebsd.org		
Freescale Semiconductor CodeWarrior Development Studio for MPC55xx/MPC56x x	2.10 special edition	Commercia I license			
GNU C Library - glibc	2.2.4	GNU Lesser General	http://www.gnu.org/software/libc/libc.html		

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v2.1 or later  Lawicel CAN USB				
Lawicel CAN USB 0.1.8 Lawicel http://www.can232.com/?page_id=75 CAN USB				
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				sample code
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clause		1111047,0000.8008.0.00111,07.12.17	0.	
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	5/	,, .,		compression library
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		http://www.netbsd.org/	6	NetBSD
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"New" or				
"Revised"				
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	ucl/	http://www.oberhumer.com/opensource/ucl/	1.03	UCL Data
	-			Compression
				Library
		http://xmlfoundation.codeplex.com/	Apr-14	XMLFoundation
License		, ,	•	
zlib 1.2.3 zlib License http://www.zlib.net		http://www.zlib.net	1.2.3	zlib

## 3.13.Supplier: Teseo

Supplier: Teseo				
Component name	Version	License	Homepage	Copyright
FATFS				

## 3.14.Supplier: SK\_telecom

Supplier: SK_telecom				
Component	Versi	License	Homepage	Copyright
name	on			
aladdin-md5	Unspe cified	zlib License	https://opensource.apple.c om/source/cups/cups- 30/cups/md5.h.auto.html	Copyright (C) 1999 Aladdin Enterprises
Alsa Libraries	Unspe cified	GNU Lesser General Public	http://www.alsa- project.org/	

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Android - platform - frameworks - base	androi d- 7.0.0_ r1	Apache License 2.0	https://android.googlesour ce.com/platform/framewor ks/base	(C) 2015 The Android Open Source Project
Android - platform - frameworks - base	Unspe cified	Apache License 2.0	https://android.googlesour ce.com/platform/framewor ks/base	
Anti-Grain Geometry	Unspe cified	Anti-Grain Geometry Public License	http://sourceforge.net/proje cts/vector-agg/	Copyright (C) 2002-2005 Maxim Shemanarev
Boost C++ Libraries - boost	Unspe cified	Boost Software License - Version 1.0	http://boost.org/	
Code Project - C++ Memory Pool	1	The Code Project Open License (CPOL) 1.02	http://www.codeproject.co m/KB/cpp/MemoryPool.as px	
Curl and Libcurl	Unspe cified	curl License	http://github.com/curl/curl/	Copyright (C) 1998 - 2011, Daniel Stenberg
gecko-dev	Unspe cified	BSD 3-clause "New" or "Revised" License	http://github.com/mozilla/g ecko-dev/	(C) 2002 Jean-Marc Valin
gpclib	Unspe cified	Commercial License	http://github.com/rdpeng/g pclib/	Copyright: (C) 1997-2004, Advanced Interfaces Group, University of Manchester.
GSM 06.10 Lossy Speech Compression	Unspe cified	GSM License	http://kbs.cs.tu- berlin.de/~jutta/toast.html	Copyright 1992, 1993, 1994 by Jutta Degener and Carsten Bormann
GStreamer	Unspe cified	GNU Library General Public License v2 or later	http://gstreamer.freedeskto p.org/modules/	
jsoncpp	Unspe cified	Public Domain or MIT	http://sourceforge.net/proje cts/jsoncpp/	Copyright (c) 2007-2010 by Baptiste Lepilleur and The JsonCpp Authors,
libogg	Unspe cified	BSD 3-clause "New" or "Revised" License	http://xiph.org/ogg/	Copyright (c) 2002, Xiph.org Foundation
libxml2	Unspe cified	MIT license	http://xmlsoft.org/	
OpenGL- Examples	maste r- 20141 123	zlib License	http://github.com/progschj/ OpenGL-Examples/	Copyright (c) 2012 Jakob Progsch
OpenSSL	1.0.2	OpenSSL Combined License	http://www.openssl.org	
Opus	Unspe cified	BSD 3-clause "New" or	http://opus-codec.org	Copyright (c) 2007-2008 CSIRO

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pkgconf	Unspe cified	ISC License	http://github.com/pkgconf/ pkgconf/	Copyright (c) 1998 Todd C. Miller
pugixml	Unspe cified	MIT license	http://pugixml.org/	Copyright (c) 2006-2018 Arseny Kapoulkine
PVRTC Library	Unspe cified	Unspecified	https://www.imgtec.com/de velopers/powervr-sdk- tools/installers/	
SDL	2	zlib License	http://www.libsdl.org/index. php	Copyright (C) 1997-2016 Sam Lantinga
SDL_gfx	Unspe cified	zlib License	http://sourceforge.net/proje cts/sdlgfx/	
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Copyright FAQ

=========

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3. Are derivative works allowed?

Yes!

4. Can I change or add to the font(s)?

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- 6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions? Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.
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This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

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V3.0 03/08/2004 -Initial Version for sqlite3

V3.1 16/09/2004 -Implemented getXXXXField using sqlite3 functions

-Added CppSQLiteDB3::tableExists()

V3.2 01/07/2005 -Fixed execScalar to handle a NULL result

12/07/2007 -Added CppSQLiteDB::IsAutoCommitOn()

-Added int64 functions to CppSQLite3Query

-Added Name based parameter binding to CppSQLite3Statement.

## V3.3 02/14/2019

-Added CppSQLite3Statement(\_\_sqlite3\* pDB, \_\_sqlite3\_stmt\* pVM);

CppSQLite3Statement::bind(int nParam, const sqlite\_int64 nValue);

CppSQLite3Statement::bind(int nParam, const uint64\_t nValue);

CppSQLite3Statement::Step()

CppSQLite3Statement::DoTransaction(const char \*str)

CppSQLite3Statement::BeginTransaction()

CppSQLite3Statement::CommitTransaction()

CppSQLite3Statement::RollbackTransaction()

CppSQLite3DB::getDB()

CppSQLite3DB::RestoreOrBackupDb() by OBIGO

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same

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year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Deriv	ed '	<b>Year</b>	Owner	GPL-
	from			compa	tible? (1)
0.9.0 thru	1.2	199	1-1995	CWI	yes
1.3 thru 1	.5.2 1.2	19	95-1999	CNR	l yes
1.6	1.5.2	2000	CN	IRI	no
2.0	1.6	2000	BeC	Open.co	m no
1.6.1	1.6	2001	CN	IRI	yes (2)
2.1	2.0+1.6	.1 20	01 F	PSF	no
2.0.1	2.0+1.6	5.1 20	01 I	PSF	yes
2.1.1	2.1+2.0	0.1 20	01 I	PSF	yes
2.1.2	2.1.1	200	2 PS	SF	yes
2.1.3	2.1.2	200	2 PS	SF	yes
2.2 and al	bove 2.1	l <b>.1</b>	2001-no	w PS	F yes

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#### Modified files

07/11/2019 Patched "(URL: https://github.com/bdarnell/tornado/tree/cython)" by OBIGO

- gen.py Fix coroutines in cython-compiled code
- gen\_test.py Add a complier directive to get gen\_test (mostly) working when cythonized
- options.py Work around cython incompatiblities in options.py
- options\_test.py Work around cython incompatiblities in options.py
- util.py Make ArgReplacer compatible with cython.
- web\_test.py Also cythonize as many of the tests as possible.

#### 4.106.zlib license

zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.4, March 14th, 2010

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Jean-loup Gailly

# 5 Supplier: Obigo Component

# 5.1. vuejs-2.4

Description: Vue is a progressive framework for building user interfaces

Available under the license: MIT License

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## 5.2 vux-0.1.3

Description: Mobile web UI Components based on Vue.js and WeUI

Available under the license: MIT License

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Description: A lightweight library that provides tools for organizing asynchronous code

Available under the license: MIT License

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#### 5.4 Quasar framework - 0.5

Description: Build responsive SPA, SSR, PWA, Hybrid Mobile Apps and Electron apps, all

simultaneously using the same codebase

Available under the license: MIT License

Copyright (c): 2015-present Razvan Stoenescu

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# 5.5 tween.js - 16.6

Description: JavaScript tweening engine for easy animations

Available under the license: MIT License

Copyright (c): 2010-2012 Tween.js authors.

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#### 5.6 iScroll - 5

Description: iScroll is a multi-platform javascript scroller

Available under the license: MIT License

Copyright (c): 2014 Matteo Spinelli, cubiq.org



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# 5.7 array-filter -1.0.0

Description: Array#filter for older browsers

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# 5.8 array-find -1.0.0

Description: ES6 Array.find ponyfill. Return the first array element which satisfies a testing function

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# 5.9 array-from -1.0.0

Description: A ponyfill for the ES 2015 (ES6) 'Array.from()'

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# 5.10 array-map -0.0.0

Description: `[].map(f)` for older browsers

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# 5.11 array-shuffle - 1.0.0

Description: Randomize the order of items in an array

Available under the license: MIT License

Copyright (c): Sindre Sorhus <sindresorhus@gmail.com>

Terms and Conditions: Refer Section 2.3

# 5.12 countup-1.6.1

Description: Animates a numerical value by counting to it

Available under the license: MIT License

Copyright (c): Jamie Perkins

Terms and Conditions: Refer Section 2.3

# 5.13 object-assign-4.1.0

Description: ES2015 'Object.assign()' ponyfill

Available under the license: MIT License

Copyright (c): Sindre Sorhus <sindresorhus@gmail.com>

Terms and Conditions: Refer Section 2.3

## 5.14 photoswipe-4.1

Description: JavaScript image gallery for mobile and desktop

Available under the license: MIT License

Copyright (c): Dmitry Semenov

Terms and Conditions: Refer Section 2.3

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# 5.15 shake.js-1.2.2

Description: Deployment tool for node

Available under the license: MIT License

Copyright (c): Fractal <contact@wearefractal.com>

Terms and Conditions: Refer Section 2.3

#### 5.16 validator - 5.1.0

Description: A library of string validators and sanitizers.

Available under the license: MIT License

Copyright (c):2018 Chris O'Hara <cohara87@gmail.com>

Terms and Conditions: Refer Section 2.3

# 5.17 webp-support -1.0.3

Description: Webp Support 1.0.3 Package

Available under the license: MIT License

Copyright (c): 2016-present, Airyland

Terms and Conditions: Refer Section 2.3

#### 5.18 HTML Parser

Description: A Simple HTML Parser

Available under the license: Mozilla Public License, Apache Software License 2.0

Copyright (c): 2004 Erik Arvidsson

Terms and Conditions: Refer Section 2.4, 2.6

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## 5.19 acrchiver - 2.1.1

Description: a streaming interface for archive generation

Available under the license: MIT License

Copyright (c): 2012-2014 Chris Talkington

Terms and Conditions: Refer Section 2.3

# 5.20 async - 2.6.3

Description: Higher-order functions and common patterns for asynchronous code

Available under the license: MIT License

Copyright (c): 2010-2018 Caolan McMahon

Terms and Conditions: Refer Section 2.3

#### 5.21 bluebird - 3.5.5

Description: Full featured Promises/A+ implementation with exceptionally good performance

Available under the license: MIT License Copyright (c): 2013-2018 Petka Antonov

Terms and Conditions: Refer Section 2.3 6.22 cross-npm-spawn-1.1.1

Description: Cross-platform NPM spawn Available under the license: MIT License

Copyright (c): 2016 Leeroy Brun

Terms and Conditions: Refer Section 2.3

## 5.23 extract-zip- 1.7.0



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Description: unzip a zip file into a directory using 100% javascript

Available under the license: BSD-2-Clause License

Copyright (c): 2014 Max Ogden

Terms and Conditions: Refer Section 2.8

#### 5.24 fs-extra - 2.1.2

Description: fs-extra contains methods that aren't included in the vanilla Node.js fs package

Available under the license: MIT License

Copyright (c): 2011-2017 JP Richardson

Terms and Conditions: Refer Section 2.3

## 5.25 iconv-lite - 0.4.24

Description: Convert character encodings in pure javascript.

Available under the license: MIT License

Copyright (c): 2011 Alexander Shtuchkin

Terms and Conditions: Refer Section 2.3

## 5.26 is-online - 7.0.0

Description: Check if the internet connection is up

Available under the license: MIT License

Copyright (c): Sindre Sorhus <sindresorhus@gmail.com>



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# 5.27 json-rpc2 - 1.0.2

Description: JSON-RPC 2.0 server and client library, with HTTP, TCP and Websocket endpoints

Available under the license: MIT License

Copyright (c): 2009 Eric Florenzano, Ryan Tomayko

Terms and Conditions: Refer Section 2.3

#### 5.28 lodash - 4.17.15

Description: Lodash makes JavaScript easier by taking the hassle out of working with arrays,

numbers, objects, strings, etc

Available under the license: MIT License

Copyright (c): JS Foundation

Terms and Conditions: Refer Section 2.3

## 5.29 progress-stream - 2.0.0

Description: Read the progress of a stream

Available under the license: BSD-2-Clause License

Copyright (c): Tobias Baunbæk <freeall@gmail.com>

Terms and Conditions: Refer Section 2.8

## 5.30 scp2-0.5.0

Description: A pure javascript scp program based on ssh2

Available under the license: MIT License

Copyright (c): 2013 Hsiaoming Yang

Terms and Conditions: Refer Section 2.3

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#### 5.31 ssh2 - 0.5.5

Description: SSH2 client and server modules written in pure JavaScript for node.js

Available under the license: MIT License

Copyright (c): Brian White

Terms and Conditions: Refer Section 2.3

# 5.32 sshpk - 1.16.1

Description: A library for finding and using SSH public keyss

Available under the license: MIT License

Copyright (c): Joyent, Inc

Terms and Conditions: Refer Section 2.3

## 5.33 targz - 1.0.1

Description: TarGz for NodeJS

Available under the license: MIT License

Copyright (c): Miska Kaipiainen <miska.kaipiainen@gmail.com>

Terms and Conditions: Refer Section 2.3

# 5.34 vboxmanage.js - 1.0.6

Description: A wrapper for VirtualBox CLI with Promises

Available under the license: MIT License Copyright (c): 2016 Daniel Cohen Gindi



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Terms and Conditions: Refer Section 2.3

## 5.35 xml2js - 0.4.23

Description: Simple XML to JavaScript object converter. It supports bi-directional conversion

Available under the license: MIT License

Copyright (c): 2010, 2011, 2012, 2013. All rights reserved.

Terms and Conditions: Refer Section 2.3

# 5.36 requirejs - 2.1.1

Description: RequireJS loads plain JavaScript files as well as more defined modules

Available under the license: MIT License

Copyright (c): jQuery Foundation

Terms and Conditions: Refer Section 2.3

#### 5.37 semver - 2.1.0

Description: The semantic version parser used by npm

Available under the license: ISC License

Copyright (c): Isaac Z. Schlueter

Terms and Conditions: Refer Section 2.9

## 5.38 SlowAES - 0.1a1

Description: Implementations of AES in pure scripting languages

Available under the license: Apache License



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Copyright (c): Josh Davis

Terms and Conditions: Refer Section 2.6

## 5.39 which - 1.0.5

Description: Like which(1) unix command. Find the first instance of an executable in the PATH.

Available under the license: ISC License

Copyright (c): Isaac Z. Schlueter

Terms and Conditions: Refer Section 2.3

#### 5.40 eventemitter2-1.0.0

Description: A Node.js event emitter implementation with namespaces, wildcards, TTL and browser support

Available under the license: MIT License

Copyright (c): 2016 Paolo Fragomeni

Terms and Conditions: Refer Section 2.3

## 5.41 moment.js - 2.24.0

Description: A lightweight JavaScript date library for parsing, validating, manipulating, and formatting dates

Available under the license: MIT License

Copyright (c): JS Foundation

Terms and Conditions: Refer Section 2.3

## 5.42 bootstrap - 2.3.1



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Description: Front-end framework for developing responsive, mobile first projects on the web

Available under the license: MIT License

Copyright (c): 2011-2018 Twitter, Inc.

Copyright (c): 2011-2018 The Bootstrap Authors

Terms and Conditions: Refer Section 2.3

#### 5.43 flexbuffers - 1.7.1

Description: FlatBuffers is an efficient cross platform serialization library for games and other memory constrained apps. It allows you to directly access serialized data without unpacking/parsing it first, while still having great forwards/backwards compatibility.

Available under the license: Apache 2.0

Copyright (c):

Terms and Conditions: Refer Section 2.6

#### 5.44 etch - 1.4.0

Description: A cross-platform, language- and transport-independent framework for building and consuming network services

Available under the license: Apache license, v2

Copyright (C) 2012 BMW Car IT GmbH

Terms and Conditions: Refer Section 2.6

## 5.45 CppSQLite -C++ Wrapper for SQLite - 3.2

Description: CppSQLite3 - A C++ wrapper around the SQLite3 embedded database library

Available under the license: CPOL 1.02

Copyright (c): 2004..2007 Rob Groves. All Rights Reserved. rob.groves@btinternet.com

Terms and Conditions: Refer Section 2.16

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#### 5.46 afl-fuzz-2.31b

Description: Tool for in-process and out-of-process (fork) coverage-guided fuzz testing

(fuzzing). Similar to libFuzzer.

Available under the license: Apache 2.0 License

Copyright (c):

Terms and Conditions: Refer Section 2.6

# 5.47 android craxy linker

Description: Fork of the Android NDK crazy linker.

Available under the license: BSD 3 License

Copyright (c): 2014 The Chromium Authors

Terms and Conditions: Refer 2.26

## 5.48 platform\_system\_core

Description: libsync helper library.

Available under the license: Apache 2.0 License

Copyright (c):

Terms and Conditions: Refer 2.6

# 5.49 angle-master\_2014-10-03

Description: ANGLE is a conformant implementation of the OpenGL ES 2.0 specification that is hardware-accelerated via Direct3D.

Available under the license: BSD 3 License

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Copyright (c): 2002-2013 The ANGLE Project Authors.

Terms and Conditions: Refer Section 2.5

#### 5.50 Blink

Description: Contains the public API for Blink. The API consists of a number of C++ header files, scripts, and GYP build files. We consider all other files in Blink to be implementation details, which are subject to change at any time without notice.

Available under the license: LGPL 2.1

Copyright (c): 2014 The Chromium Authors.

Terms and Conditions: Refer Section - 2.14

# 5.51 boringssl-master

Description: This is BoringSSL, a fork of OpenSSL. See

https://www.imperialviolet.org/2014/06/20/boringssl.html

Available under the license: BSD 3 License

Copyright (c):

Terms and Conditions: Refer Section - 2.22

## 5.52 breakpad-origin/chrome\_53

Description: An open-source multi-platform crash reporting system

URL: https://chromium.googlesource.com/breakpad/breakpad

Available under the license: BSD 3, Apple PSL 2.0 and Apache 2.0 License

Copyright (c): 2006, Google Inc.

Terms and Conditions: Refer Section 2.5, 2.24, 2.6



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Source Code:

https://chromium.googlesource.com/chromium/src/+/refs/tags/55.0.2883.75/breakpad/LICENSE

#### 5.53 brotli-v0.4.0

Description: Brotli is a generic byte-level compression algorithm that is used at the

byte-compression level in WOFF 2.0 font file format. This library is used

to decode WOFF 2.0 fonts.

Available under the license: MIT License

Copyright (c): 2009, 2010, 2013-2015 by the Brotli Authors.

Terms and Conditions: Refer Section 2.3

## 5.54 catapult-0.1.0-alpha-1

Description: Catapult is the home for several performance tools that span from gathering, displaying and analyzing performance data.

Available under the license: BSD 3 License

Copyright (c): 2015 The Chromium Authors

Terms and Conditions: Refer Section 2.5

## 5.55 cacheinvalidation-master\_2014-09-04

Description: This is the API to talk to the Google Cache Invalidation service, used by the invalidations consumed by Sync, Enterprise Policy, and other services. It was previously hosted at http://code.google.com/p/google-cache-invalidation-api/

but was merged into the Chromium repository at r342.

Available under the license: Apache 2.0 License

Copyright (c):

Terms and Conditions: Refer Section 2.6

## 5.56 cld2-master\_2017-12-14

Description: The CLD is used to determine the language of text. In Chromium, this is used



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to determine if Chrome should offer Translate UX to the user.

Available under the license: Apache 2.0 License

Copyright (c):

Terms and Conditions: Refer Section 2.6

## 5.57 fontconfig-2.11.0

Description: Fontconfig is a library for configuring and customizing font access.

Available under the license: MIT License

Copyright (c): 2012 Google, Inc.

Terms and Conditions: Refer Section 2.3

## 5.58 compact\_encoding\_detection

Description: Compact Encoding Detection(CED for short) is a library written in C++ that scans given raw bytes and detect the most likely text encoding.

Available under the license: Apache 2.0 License

Copyright (c): 2016 Google Inc.

Terms and Conditions: Refer Section 2.6

#### 5.59 cld3-2f6624f0a6d6fd8f76bdcae38558c73d23ebec1e

Description: CLD3 is a neural net model for detecting the language of text.

Available under the license: Apache 2.0 License

Copyright (c): 2016 Google Inc.

Terms and Conditions: Refer Section 2.6

## 5.60 coveragepy-coverage-4.0.3

Description: Coverage.py measures code coverage, typically during test execution. It uses the code analysis tools and tracing hooks provided in the Python standard library to determine which lines are executable, and which have been executed.



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Available under the license: Apache 2.0 License

Copyright (c): 2004-2015 Ned Batchelder.

Terms and Conditions: Refer Section 2.6

## 5.61 crashpad-electron-v1.6.12

Description: Crashpad is a crash-reporting system. It's the successor to Breakpad.

Available under the license: Apache 2.0 License

Copyright (c):

Terms and Conditions: Refer Section 2.6

## 5.62 dmg\_fp-master\_2014-05-19

Description: David M. Gay's floating point routines

Available under the license: MIT License

Copyright (c): 1991, 2000, 2001 by Lucent Technologies.

Terms and Conditions: Refer Section 2.27

## 5.63 external-chromium\_org-sdch-open-vcdiff-mips-kk-4.4.2\_r1.m1

Description: open-vcdiff is an encoder and decoder for the VCDIFF format, as described in

[RFC 3284](http://www.ietf.org/rfc/rfc3284.txt): The VCDIFF Generic Differencing and Compression Data Format.

Available under the license: Apache 2.0 License

Copyright (c): 2008 The open-vcdiff Authors.

Terms and Conditions: Refer Section 2.6

#### 5.64 flac-1.3.1

Description: This library is required for the browser to compress and encode recorded audio

before sending to Google servers for speech recognition.

Available under the license: BSD 3 License



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Copyright (c): 2011-2014 Xiph.Org Foundation

Terms and Conditions: Refer Section 2.5

#### 5.65 flatbuffers-v1.2.0

Description: FlatBuffers is an efficient cross platform serialization library for games and other memory constrained apps. It allows you to directly access serialized data without unpacking/parsing it first, while still having great forwards/backwards compatibility.

Available under the license: Apache 2.0 License

Copyright (c): 2014 Google Inc

Terms and Conditions: Refer Section 2.6

## 5.66 freetype2-VER-2-8-1

Description: This library is required for the browser to compress and encode recorded audio

before sending to Google servers for speech recognition

Available under the license: Custom License (Freetype Project License)

Copyright (c):

Terms and Conditions: Refer Section - 2.12

## 5.67 glslang-GoogleGlslang20160218

Description: An OpenGL and OpenGL ES shader front end and validator.

Available under the license: MIT License

Copyright (c): 2015-2016 The Khronos Group Inc.

Terms and Conditions: Refer Section 2.28

## 5.68 googlemock-release-1.7.0

Description: Google's framework for writing and using C++ mock classes on a variety



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of platforms (Linux, Mac OS X, Windows, Windows CE, Symbian, etc).

Available under the license: BSD 3 License

Copyright (c): 2008, Google Inc.

Terms and Conditions: Refer Section 2.5

# 5.69 googletest-release-1.7.0

Description: Google's framework for writing C++ tests on a variety of platforms

(Linux, Mac OS X, Windows, Windows CE, Symbian, etc).

Available under the license: BSD 3 License

Copyright (c): 2008, Google Inc.

Terms and Conditions: Refer Section 2.5

# 5.70 grpc-v1.4.7

Description: Chrome's version of the C-version of the gRPC ibrary.

Available under the license: BSD 3 License

Copyright (c): 2015, Google Inc.

Terms and Conditions: Refer Section 2.5

#### 5.71 harfbuzz-1.3.1

Description: This is harfbuzz-ng, a new implementation of harfbuzz with a different

API from the old one.

Available under the license: MIT License Copyright (c): 2010,2011,2012 Google, Inc.

Terms and Conditions: Refer Section 2.29

## 5.72 iccjpeg-32.0.1700.102

Description: Contain support for ICC color profile on top of jpeg6b (and up) library.

Original author is Tom Lane, from the IJG group.



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We include the relevant part of the original IJG licensing term

in the file LICENSE.

Available under the license: Custom License Copyright (c): 1991-1998, Thomas G. Lane.

Terms and Conditions: Refer Section - 2.13

5.73 icu-release-56-1

Description: The source code of ICU 56.1 for C/C++.

Available under the license: ICU license

Copyright (c): 1995-2015 International Business Machines Corporation and others.

Terms and Conditions: Refer Section 2.17

## 5.74 jsoncpp-svn-release-0.6.0-rc2

Description: The libjingle/webrtc/liblouis\_nacl uses jsoncpp for signaling message serialization and descrialization. This library is also shipped in NaCl

SDK and used in several examples.

Available under the license: MIT License

Copyright (c): 2007-2010 Baptiste Lepilleur

Terms and Conditions: Refer Section 2.3

## 5.75 khronos\_headers

Description: This package contains header files for the EGL and OpenGL ES APIs from

Khronos. They are used for compiling code against these APIs as well as for

generating the GL binding initialization logic.

Available under the license: MIT License, SGI Free Software License B

Copyright (c): 2007-2010 The Khronos Group Inc.



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#### 5.76 leveldb-v1.20

Description: Alternative to SQLite used as the backend for IndexedDB and internally by the

FileSystem API implementation and others.

Available under the license: BSD 3 License

Copyright (c): 2011 The LevelDB Authors. All rights reserved.

Terms and Conditions: Refer Section 2.5

## 5.77 libaddressinput-master\_2014-10-07

Description: This library lets you enter, validate, and display an address with correct

semantics for many countries around the world.

Available under the license: Apache 2.0 License

Copyright (c):

Terms and Conditions: Refer Section 2.6

#### 5.78 libevent-release-1.4.15-stable

Description: The libevent API provides a mechanism to execute a callback function when a specific event occurs on a file descriptor or after a timeout has been reached.

Available under the license: BSD 3 License

Copyright (c): 2007-2010 Niels Provos and Nick Mathewson

Terms and Conditions: Refer Section 2.5

#### 5.79 dist-llvm-master\_2010-04-15

Description: Library for in-process coverage-guided fuzz testing (fuzzing) of other

libraries.

Available under the license: University of Illinois/NCSA Open Source License

Copyright (c): 2003-2015 University of Illinois at Urbana-Champaign.

Terms and Conditions: Refer 2.7

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5.80 libjpeg-turbo-1.4.90

Description: This libjpeg-turbo also added a new file

jpeglibmangler.h and included it from jpeglib.h that changes the names of all

externally visible functions to chromium \* so that we can avoid conflicts that

arise when system libraries attempt to use our libjpeg.

Changes: Security vulnerability patch applied (CVE-2017-15232)

Available under the license: Custom License (IJG license), BSD 3 License, Zlib License

Copyright (c):

Terms and Conditions: Refer Section 2.30, 2.5, 2.1

# 5.81 libphonenumber-v8.9.8

Description: International Phone Number Library

Available under the license: Apache 2.0 License

Copyright (c): 2014 The Chromium Authors. All rights reserved.

Terms and Conditions: Refer Section 2.6

#### 5.82 libpng-v1.6.22beta03

Description: libpng is the official Portable Network Graphics (PNG) reference library (originally called pnglib).

Available under the license: lib png License

Copyright (c): 2000-2002, 2004, 2006-2016 Glenn Randers-Pehrson

Terms and Conditions: Refer Section 2.11

#### 5.83 libsrtp-v1.5.2

Description: Libsrtp provides secure media transmission in a real time communication. It's used with libjingle which provides the p2p session setup.

Available under the license: BSD 3 License

Copyright (c): 2001-2006 Cisco Systems, Inc.



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## 5.84 libvpx-v1.6.0

Description: Contains the sources used to compile libvpx binaries used by Google Chrome and Chromium.

Available under the license: BSD 3 License

Copyright (c): 2010, The WebM Project authors. All rights reserved.

Terms and Conditions: Refer Section 2.5

#### 5.85 libwebm-libwebm-1.0.0.27

Description: libwebm is a library to read and write WebM files. It's used by MediaStream Recording API to multiplex encoded audio and video into a WebM container. Only the writing parts are used for this purpose, the rest is not compiled.

Available under the license: BSD 3 License

Copyright (c): 2010, Google Inc. All rights reserved.

Terms and Conditions: Refer Section 2.5

#### 5.86 libwebp-v0.5.1

Description: WebP is an image format that does both lossy and lossless compression of digital photographic images. WebP consists of a codec based on VP8, that Google open-sourced in May 2010 and a container based on RIFF. Webmasters, web developers and browser developers can use WebP to compress, archive and distribute digital images more efficiently.

Available under the license: BSD 3 License

Copyright (c): 2010, Google Inc.



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#### 5.87 libxml2-v2.9.5

Description: libxml2 from libxml.org.

Available under the license: MIT License Copyright (c): 1998-2012 Daniel Veillard.
Terms and Conditions: Refer Section 2.3

# 5.88 libXNVCtrl-master\_2018-03-01

Description: This package provides access to NVidia Control X Extension. It is used to determine the version of the NVIDIA driver in use.

Available under the license: MIT License

Copyright (c): 2008 NVIDIA

Terms and Conditions: Refer Section 2.3

#### 5.89 libxslt-v1.1.29-rc2

Description: libxslt from libxml.org.

Available under the license: MIT License Copyright (c): 1998-2012 Daniel Veillard.

Terms and Conditions: Refer Section 2.3

## 5.90 libyuv-v1.0.0

Description: libyuv is an open source project that includes YUV conversion and scaling functionality.

Available under the license: BSD 3 License

Copyright (c): 2011 The LibYuv Project Authors.

Terms and Conditions: Refer Section 2.5

## 5.91 linux\_syscall\_support

Description: This file includes Linux-specific support functions common to the coredumper and the thread lister; primarily, this is a collection of direct system calls, and a couple of symbols missing from standard header files.

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Available under the license: BSD 3 License

Copyright (c): 2005-2011, Google Inc.

Terms and Conditions: Refer Section 2.5

#### 5.92 minigbm

Description: This contains the graphics buffer allocator library for Chrome OS.

Available under the license: BSD 3 License

Copyright (c): 2014 The Chromium OS Authors.

Terms and Conditions: Refer Section 2.5

## 5.93 modp\_b64-master\_2014-10-08

Description: The modp\_b64.c file was modified to remove the inclusion of modp's config.h and to fix compilation errors that occur under VC8. The file was renamed modp\_b64.cc to force it to be compiled as C++ so that the inclusion of basictypes.h could be possible.

Available under the license: BSD 3 License

Copyright (c): 2005, 2006 Nick Galbreath

Terms and Conditions: Refer Section 2.5

## 5.94 mojo-master\_2014-10-08

Description: The Mojo Public API is a binary stable API to the Mojo system. It consists of support for a number of programming languages (with a directory for each support language), some "build" tools and build-time requirements, and interface definitions for Mojo services (specified using an IDL).

Note that there are various subdirectories named tests/. These contain tests of the code in the enclosing directory, and are not meant for use by Mojo applications.

Available under the license: BSD 3 License



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Copyright (c): 2014 The Chromium Authors.

Terms and Conditions: Refer Section 2.5

#### 5.95 mt19937ar-32.0.1700.102

Description: This is Chrome's locally patched copy of Takuji Nishimura and Makoto

Matsumoto's Mersenne Twister pseudorandom number generator.

Available under the license: BSD 3 License

Copyright (c): 1997 - 2002, Makoto Matsumoto and Takuji Nishimura

Terms and Conditions: Refer Section 2.5

# 5.96 native\_client-master\_2014-10-16

Description: Native Client is a sandbox for running compiled C and C++ code in the browser efficiently and securely, independent of the user's operating system.

Available under the license: BSD 3 License

Copyright (c): 2008, Google Inc.

Terms and Conditions: Refer Section 2.5

## 5.97 openh264-v1.4.0

Description: Cisco's H.264 video codec implementation.

Available under the license: BSD 2 License

Copyright (c): 2013, Cisco Systems

Terms and Conditions: Refer Section 2.8

#### 5.98 opus-v1.1.3

Description: This library is used by Chrome Remote Desktop and WebRTC for audio stream encoding/decoding.

Available under the license: BSD 3 License

Copyright (c): 2001-2011 Xiph.Org, Skype Limited, Octasic,



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Jean-Marc Valin, Timothy B. Terriberry,

CSIRO, Gregory Maxwell, Mark Borgerding,

Erik de Castro Lopo

Terms and Conditions: Refer Section 2.5

#### 5.99 ots-v5.0.0

#### Description:

The OpenType Sanitizer (OTS) parses and serializes OpenType files (OTF, TTF) and WOFF and WOFF2 font files, validating them and sanitizing them as it goes.

Available under the license: BSD 3 License

Copyright (c): 2009 The Chromium Authors.

Terms and Conditions: Refer Section 2.5

## 5.100 ozone-wayland-45.0.2454.37

Description: Ozone-Wayland is the implementation of Chromium's Ozone for supporting [Wayland](http://wayland.freedesktop.org/) graphics system.

Available under the license: BSD 3 License

Copyright (c): 2013 Intel Corporation.

Terms and Conditions: Refer Section 2.5

## 5.101 pdfium-chromium/3440

Description: PDF generation and rendering library.

Available under the license: BSD 3 License

Copyright (c): 2014 PDFium Authors.

Terms and Conditions: Refer Section 2.5

#### 5.102 protobuf-v3.0.0-beta-3

Description: Protocol Buffers (a.k.a., protobuf) are Google's language-neutral, platform-neutral, extensible mechanism for serializing structured data. You can find protobuf's documentation on the Google Developers site.

Available under the license: BSD 3 License

Copyright (c): 2008 Google Inc.



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## 5.103 qcms

Description: Contains support for applying an ICC color profile to an image. The code is originally based on tinycms, re-written by Mozilla for better security and

performance. This copy is a source-drop from Mozilla on March 13, 2012.

Available under the license: MIT License Copyright (c): 2009 Mozilla Corporation

1998-2007 Marti Maria

Terms and Conditions: Refer Section 2.3

#### 5.104 re2-2016-02-01

Description: RE2 is a fast, safe, thread-friendly alternative to backtracking regular expression engines like those used in PCRE, Perl, and Python.

Available under the license: BSD 3 License

Copyright (c): 2009 The RE2 Authors.

Terms and Conditions: Refer Section 2.5

## 5.105 SevenZip-LZMA-15.14

Description: This contains a part of LZMA SDK 15.14.

Available under the license: Public Domain

Copyright (c):

Terms and Conditions: Refer Section 2.33

# 5.106 shaderc-v2018.0

Description: A collection of SPIR-V related tools/libraries.

Available under the license: Apache 2.0 License

Copyright (c):



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#### 5.107 skia-v1.60.0

Description: Skia is an open source 2D graphics library which provides common APIs that work across a variety of hardware and software platforms.

Available under the license: BSD 3 License

Copyright (c): 2011 Google Inc.

Terms and Conditions: Refer Section 2.5

# 5.108 smhasher-trunk\_2014-04-22

Description: This is a library containing the MurmurHash3 function, and a hashing function

test suite.

Available under the license: MIT License

Copyright (c): 2011 Google, Inc.

Terms and Conditions: Refer Section 2.3

## 5.109 snappy-v1.1.0

Description: Compression library used by LevelDB.

Available under the license: BSD 3 License

Copyright (c): 2011 Google Inc.

Terms and Conditions: Refer Section 2.5

# 5.110 uriparser-uriparser-0.8.0

Description: uriparser is a strictly RFC 3986 compliant URI parsing and handling library written in C89 ("ANSI C"). uriparser is cross-platform, fast, supports Unicode

Available under the license: BSD 3 License

Copyright (c): 2007, Weijia Song <songweijia@gmail.com>, 2007, Sebastian Pipping <sebastian@pipping.org>



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## 5.111 SPIRV-Tools-spirv-1.1-rev1

Description: The SPIR-V Tools project provides an API and commands for processing

SPIR-V modules.

Available under the license: MIT License

Copyright (c): 2015-2016 The Khronos Group Inc.

Terms and Conditions: Refer Section 2.3

# 5.112 sqlite-version-3.8.4

Description:

SQLite is a C-language library that implements a small, fast, self-contained, high-reliability, full-featured, SQL database engine.

Available under the license: Public Domain

Copyright (c):

Terms and Conditions: Refer Section 2.10

## 5.113 tcmalloc-master\_2012-05-20

Description: Chromium's locally patched copy of tcmalloc.

Available under the license: BSD 3 License

Copyright (c): 2005, Google Inc.

Terms and Conditions: Refer Section 2.5

# 5.114 url\_parse

Description: The file url\_parse.cc is based on nsURLParsers.cc from Mozilla.

Available under the license: BSD 3 license, MPL 1.1 License

Copyright (c): 2007, Google Inc.

Terms and Conditions: Refer Section - 2.5, 2.4

#### 5.115 usrsctp-0.9.3.0

Description: The usrsctplib provides implementation of SCTP protocol which fully supports

RFC 2960.

Available under the license: BSD 2 License

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Copyright (c): 2001, 2002 Cisco Systems, Inc, 2002-12 Randall R. Stewart, 2002-12 Michael Tuexen

Terms and Conditions: Refer Section 2.8

#### 5.116 v8-5.6.309.1

Description: V8 is Google's open source JavaScript engine. V8 implements ECMAScript as specified in ECMA-262.

Available under the license: BSD 3 License

Copyright (c): 2006-2011, the V8 project authors.

Terms and Conditions: Refer Section 2.5

#### 5.117 VulkanTools-sdk-1.0.8.0

Description: This simply includes the include files for the Vulkan SDK. Eventually this

will just be taken from the build system.

Available under the license: MIT License

Copyright (c): 2015 Valve Corporation

Terms and Conditions: Refer Section 2.3

## 5.118 wayland-protocols

Description: wayland-protocols contains Wayland protocols that adds functionality not available in the Wayland core protocol. Such protocols either adds completely new functionality, or extends the functionality of some other protocol either in Wayland core, or some other protocol in wayland-protocols.

Available under the license: MIT License

Copyright (c): 2008-2013 Kristian Høgsberg

2010-2013 Intel Corporation

2013 Rafael Antognolli

2013 Jasper St. Pierre

2014 Jonas Ådahl

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2014 Jason Ekstrand

2014-2015 Collabora, Ltd.

2015 Red Hat Inc.

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# 5.119 WebGL-master\_2015-01-08

Description: This is a snapshot of the public webgl conformance tests directory on the

Github server.

Available under the license: MIT License

Copyright (c):

Terms and Conditions: Refer Section 2.3

#### 5.120webrtc-builds-9686

Description: WebRTC provides real time voice and video processing

functionality to enable the implementation of

PeerConnection/MediaStream.

Available under the license: BSD 3 License

Copyright (c): 2011, The WebRTC project authors.

Terms and Conditions: Refer Section 2.5

# 5.121 woff2-a15a8ab86b934cf436f8fac4a8a11ddf8b59d792

Description: The reference implementation of the WOFF 2.0 web font compression

format (http://www.w3.org/TR/WOFF2/).

Available under the license: MIT License

Copyright (c):

Terms and Conditions: Refer Section 2.3



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5.122 zlib-1.2.8

Description: General purpose compression library

Available under the license: Zlib License

Copyright (c):1995-2010 Jean-loup Gailly and Mark Adler

Terms and Conditions: Refer Section 2.1

5.123 boost\_1\_64\_0

Description: Boost is a set of libraries for the C++

Available under the license: BSL 1.0 License

Copyright (c):

Terms and Conditions: Refer Section 2.2

5.124 libjson-c-0.10

Description: JSON-C implements a reference counting object model that allows you to easily construct JSON objects in C

Available under the license: MIT License

Copyright (c): 2007-2010 Baptiste Lepilleur and The JsonCpp Authors

Terms and Conditions: Refer Section 2.3

5.125 pkg-config-generator

Description: Simple python (2 or 3) script for generating package config ('pkg-config' or '.pc') files

Available under the license: MIT License

Copyright (c): 2016 Nii Mante

Terms and Conditions: Refer Section 2.3

5.126 uriparser-0.8.5

Description: RFC 3986 URI parsing library

Available under the license: BSD 3 License

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Copyright (c): 2007, Weijia Song

2007, Sebastian Pipping

Terms and Conditions: Refer Section 2.5

#### 5.127 xmlsec1-1.2.24

Description: XML Security with nss(certificates)

Available under the license: MPL v1.1

Copyright (c):2002-2016 Aleksey Sanin

Terms and Conditions: Refer Section 2.25

#### 5.128 Tornado-4.1

Description: Tornado is a Python web framework and asynchronous networking library

Available under the license: Apache License 2.0

Copyright (c): 2017, Obigo

Terms and Conditions: Refer Section 2.20

## 5.129 Ujson-1.35

Description: An ultra fast JSON encoder and decoder written in pure C with bindings for Python 2.5+ and 3.

Available under the license: BSD 3 License

Copyright (c): 2014, Electronic Arts Inc.

Terms and Conditions: Refer Section 2.21

## 5.130 Python-2.7.9

Description: Python is a widely used high-level programming language for general-purpose

programming

Available under the license: Python License v2.0

Copyright (c):2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010,



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2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019 Python Software Foundation

Terms and Conditions: Refer Section 2.19

## 5.131 Backports-3.4.0.2

Description: Backports provide greater sanity, and a bit more organization, in the Package Index.

Available under the license: Python License v2.0

Copyright (c):2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010,

2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019 Python Software Foundation

Terms and Conditions: Refer Section 2.18

## 5.132 babel-runtime - 6.26.0

Description: The compiler for writing next generation JavaScript.

Available under the license: MIT License

Copyright ©: 2014-present Sebastian McKenzie and other contributors

Terms and Conditions: Refer Section 2.3

# 5.133 core-js-2.5.1

Description: Modular standard library for JavaScript

Available under the license: MIT License

Copyright (c): 2014-2020 Denis Pushkarev

Terms and Conditions: Refer Section 2.3

#### 5.134 css-loader-0.25.0

Description: The css-loader interprets @import and url() like import/require() and will resolve them.

Available under the license: MIT License

Copyright ©: JS Foundation and other contributors

Terms and Conditions: Refer Section 2.3



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#### 5.135 vue-loader-13.7.2

Description: Webpack loader for Vue Single-File Components

Available under the license: MIT License

Copyright ©: 2015-present Yuxi (Evan) You

Terms and Conditions: Refer Section 2.3

## 5.136 Blackmagic DeckLink SDK 9.6.4-master\_2012-10-10

Description: Verbatim from the pdf included in the original download:

"The DeckLink SDK provides a stable, cross-platform interface to a Blackmagic

Design DeckLink product line. The SDK provides both low-level control of

hardware and high-level interfaces to allow developers to easily perform common

tasks

Available under the license: BSL

Copyright (c): 2014 Blackmagic Design

Terms and Conditions: Refer Section 2.2

## 5.137 aes-js - 3.1.2

Description: A pure JavaScript implementation of the AES block cipher algorithm and all common modes of operation (CBC, CFB, CTR, ECB and OFB).

Available under the license: MIT License

Copyright (c): 2015 Richard Moore

Terms and Conditions: Refer Section 2.3

## 5.138 mosquitto-v1.6.7

Description: Open source (EPL/EDL licensed) message broker that implements the MQTT protocol

URL: https://mosquitto.org/

Available under the license: Eclipse Public License 1.0, Eclipse Distribution License 1.0

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Copyright (c): 2010-2014 Roger Light <roger@atchoo.org>

Terms and Conditions: Refer Section 2.23

#### 5.139 atob - 2.1.2

Description: Uses Buffer to emulate the exact functionality of the browser's atob.

Available under the license: MIT License, Apache 2.0 License

Copyright (c): 2015 AJ ONeal

Terms and Conditions: Refer Section 2.3, 2.6

## 5.140 cli-spinners - 1.3.1

Description: Spinners for use in the terminal

Available under the license: MIT License

Copyright (c): Sindre Sorhus <sindresorhus@gmail.com> (https://sindresorhus.com)

Terms and Conditions: Refer Section 2.3

## 5.141 vue-i18n

Description: Internationalization plugin for Vue.js

Available under the license: MIT License Copyright (c): 2016 kazuya kawaguchi Terms and Conditions: Refer Section 2.3

## 5.142 vue-router

Description: The official router for Vue.js Available under the license: MIT License Copyright (c): 2013-present Evan You

Terms and Conditions: Refer Section 2.3



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## 5.143 vue-style-loader

Description: A fork based on style-loader

Available under the license: MIT License

Copyright (c): JS Foundation and other contributors

Terms and Conditions: Refer Section 2.3

#### 5.144 webpack

Description: A module bundler

Available under the license: MIT License

Copyright (c): JS Foundation and other contributors

Terms and Conditions: Refer Section 2.3

## 5.145 cli-table-redemption - 1.0.1

Description: Rrender unicode-aided tables on the command line from node.js scripts.

Available under the license: MIT License

Copyright (c): 2011-2017 Automattic, 2017 Keymetrics

Terms and Conditions: Refer Section 2.3

#### 5.146 co - 4.6.0

Description: Generator based control flow goodness for nodejs and the browser, using promises, letting you write non-blocking code in a nice-ish way.

Available under the license: MIT License

Copyright (c): 2014 TJ Holowaychuk <tj@vision-media.ca&gt;

Terms and Conditions: Refer Section 2.3

#### 5.147 commander - 2.20.3

Description: The complete solution for node.js command-line interfaces, inspired by Ruby's commander.

Available under the license: MIT License



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Copyright (c): 2014 TJ Holowaychuk <tj@vision-media.ca&gt;

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#### 5.148 fs-extra - 3.0.1

Description: Adds file system methods that aren't included in the native fs module and adds promise support to the fs methods.

Available under the license: MIT License Copyright (c): 2011-2017 JP Richardson Terms and Conditions: Refer Section 2.3

## 5.149 inquirer - 3.3.0

Description: A collection of common interactive command line user interfaces.

Available under the license:MIT License

Copyright (c): 2012 Simon Boudrias

Terms and Conditions: Refer Section 2.3

#### 5.150 ora - 1.4.0

Description: Elegant terminal spinner

Available under the license: MIT License

Copyright (c): Sindre Sorhus <sindresorhus@gmail.com> (https://sindresorhus.com)

Terms and Conditions: Refer Section 2.3

# 5.151 thunkify - 2.1.2

Description: Turn a regular node function into one which returns a thunk, useful for generator-based flow control such as co.

Available under the license: MIT License

Copyright (c): 2018 TJ Holowaychuk

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## 5.152 unzip - 0.1.11

Description: Streaming cross-platform unzip tool written in node.js.

Available under the license: MIT License

Copyright (c): 2012 - 2013 Near Infinity Corporation

Terms and Conditions: Refer Section 2.3

#### 5.153 xmldom - 0.1.31

Description: A JavaScript implementation of W3C DOM for Node.js, Rhino and the browser

Available under the license: MIT License

Copyright (c): None

Terms and Conditions: Refer Section 2.3

# 5.154 xpath - 0.0.24

Description: DOM 3 XPath 1.0 implemention and helper for JavaScript, with node.js support.

Available under the license: MIT License
Copyright (c): 2018 Cameron McCormack
Terms and Conditions: Refer Section 2.3

# 5.155 npm-cli-login - 0.1.1

Description: Allows to log in to NPM without STDIN, STDOUT

Available under the license: Apache 2.0 License

Copyright (c): None

Terms and Conditions: Refer Section 2.6

# 5.100 ozone-wayland-45.0.2454.376.156 selenium-webdriver-master\_2015-05-28

Description: WebDriver is a clean, fast framework for automated testing of webapps.

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Available under the license: Apache 2.0 License

Copyright (c): 2007-2009 Google Inc.

2007-2009 WebDriver committers

Terms and Conditions: Refer Section 2.6

# 5.157 glog-v0.3.4

Description: libsync helper library

Available under the license: BSD 3 License

Copyright (c): 2010 The Chromium Authors

Terms and Conditions: Refer Section 2.5

# 5.158 freetype-freetype-2.6.1

Description: FreeType library.

Available under the license: FreeType License (FTL)

Copyright (c): 1996-2015 by David Turner, Robert Wilhelm, and Werner Lemberg

Terms and Conditions: Refer Section 2.12

## 5.159 jsoncpp-1.6.2

Description: The JsonCpp library's source code, including accompanying documentation,

tests and demonstration applications, are licensed under the following

conditions...

Available under the license: MIT License

Copyright (c): 2007-2010 Baptiste Lepilleur

Terms and Conditions: Refer Section 2.3

## 5.160 brackets - 1.11

Description: A modern open-source code editor for HTML, CSS and JavaScript that's built in HTML, CSS and JavaScript.



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Available under the license: MIT License

Copyright (c): 2012 - present Adobe Systems Incorporated. All rights reserved.

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#### 5.161 bootstrap-toggle - 2.2.2

Description: Bootstrap Toggle is a highly flexible Bootstrap plugin that converts checkboxes into toggles.

Available under the license: MIT License

Copyright (c): Terms and Conditions: Refer Section 2.3

s. Neier Section 2.5

#### 5.162Toastr

Description: A Javascript library for non-blocking notifications. jQuery is required

Available under the license: MIT License

Copyright (c): Terms and Conditions: Refer Section 2.3

## 5.163 sqlite-version-3.7.6.2

Description: SQLite is a C-language library that implements a small, fast, self-contained, high-reliability, full-featured, SQL database engine.

Available under the license: Public domain

Copyright (c):

Terms and Conditions: Refer Section 2.10

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The Original Code is the Netscape security libraries.

The Initial Developer of the Original Code is



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Netscape Communications Corporation.

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Using custom versions of pnglibconf.h and pngprefix.h for Chrome.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to



permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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

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

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V3.0 03/08/2004 -Initial Version for sqlite3

V3.1 16/09/2004 -Implemented getXXXXField using sqlite3 functions

-Added CppSQLiteDB3::tableExists()

V3.2 01/07/2005 -Fixed execScalar to handle a NULL result

12/07/2007 -Added int64 functions to CppSQLite3Query

- -Throw exception from CppSQLite3DB::close() if error
- -Trap above exception in CppSQLite3DB::~CppSQLite3DB()
- -Fix to CppSQLite3DB::compile() as provided by Dave Rollins.
- -sqlite3\_prepare replaced with sqlite3\_prepare\_v2
- -Added Name based parameter binding to CppSQLite3Statement.

V3.3 02/14/2019 -Added CppSQLite3Statement(\_\_sqlite3\* pDB, \_\_sqlite3\_stmt\* pVM);



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CppSQLite3Statement::bind(int nParam, const sqlite\_int64 nValue);

CppSQLite3Statement::bind(int nParam, const uint64\_t nValue);

CppSQLite3Statement::Step()

CppSQLite3Statement::DoTransaction(const char \*str)

CppSQLite3Statement::BeginTransaction()

CppSQLite3Statement::CommitTransaction()

CppSQLite3Statement::RollbackTransaction()

CppSQLite3DB::getDB()

CppSQLite3DB::RestoreOrBackupDb() by OBIGO

05/07/2019 -Modified CppSQLite3DB::CommitTransaction(const char \*str = NULL) by OBIGO

05/10/2021 -throw exception from CppSQLite3DB::CommitTransaction(const char \*str = NULL) by OBIGO

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to



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BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Deriv	/ed	Year		Owne	er (	GPL-
	from				comp	atible?	' (1)
0.9.0 thru	1.2	19	991-19	995	CWI	ye	es
1.3 thru 1.	.5.2 1.2		1995-	1999	CNI	રા	yes
1.6	1.5.2	200	00	CN	RI	no	
2.0	1.6	200	0	BeC	pen.c	om no	)
1.6.1	1.6	200	01	CN	RI	yes (	2)
2.1	2.0+1.6	.1 2	001	P	SF	no	
2.0.1	2.0+1.6	6.1	2001	F	PSF	yes	5
2.1.1	2.1+2.0	0.1	2001	F	PSF	yes	5
2.1.2	2.1.1	20	02	PS	SF.	yes	
2.1.3	2.1.2	20	02	PS	SF.	yes	
2.2 and al	bove 2.1	1.1	200	1-no	w P	SF	yes

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#### Modified files

07/11/2019 Patched "(URL: https://github.com/bdarnell/tornado/tree/cython)" by OBIGO

- gen.py Fix coroutines in cython-compiled code
- gen\_test.py Add a complier directive to get gen\_test (mostly) working when cythonized
- Work around cython incompatiblities in options.py options.py
- options\_test.py Work around cython incompatiblities in options.py
- Make ArgReplacer compatible with cython. - util.py
- web\_test.py Also cythonize as many of the tests as possible.

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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.



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LEGAL ISSUES Copyright, lack of warranty, terms of distribution.

REFERENCES Where to learn more about JPEG.

ARCHIVE LOCATIONS Where to find newer versions of this software.

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Other documentation files in the distribution are:

#### User documentation:

usage.txt Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.

\*.1 Unix-style man pages for programs (same info as usage.txt).

wizard.txt Advanced usage instructions for JPEG wizards only.

change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt How to use the JPEG library in your own programs.

example.c Sample code for calling the JPEG library.

structure.txt Overview of the JPEG library's internal structure.

coderules.txt Coding style rules --- please read if you contribute code.

Please read at least usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

### **OVERVIEW**

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This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG



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decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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it. This software may be referred to only as "the Independent JPEG Group's software".

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The IJG distribution formerly included code to read and write GIF files.

To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at http://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is



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titled "Digital Compression and Coding of Continuous-tone Still Images,
Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS
10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of

Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from

http://www.ecma-international.org/publications/techreports/E-TR-098.htm.

A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

**ARCHIVE LOCATIONS** 

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The "official" archive site for this software is www.ijg.org.

The most recent released version can always be found there in directory "files".

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.

It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

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## FILE FORMAT WARS

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The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO

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Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

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