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ХС-СР	XC-CP_INF_RN_AIVI_Scope3.x	01-04-2025

Open-Source Software Attributions for XC-CP_INF_ RN_AIVI_Scope 3.x

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XC-CP_INF_RN_AIVI_Scope3.x

01-04-2025

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GCC Runtime Library Exception 3.1 to GPL 3.0

Version 3.1, 31 March 2009

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.



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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of



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

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

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

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

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

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

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

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

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



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

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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

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

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

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

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

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(For example a	a function in a library to compute square roots has a purpose that is entirely well	defined independent

(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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signature of Ty Coon, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

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

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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.



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

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

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

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, Itconfig, Itmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a



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marginal gain over the	unnatented Huffman mode it is unlikely that very many implementations will	support it) So far as

marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, 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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30.	libcap2	1:2.252co1+ap	Dual License - BSD - 3 Clause or	Dual License - BSD - 3 Clause or GPL v2
		ertispro0	GPL v2	
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35.	libseccom p	2.3.3- 4co1+ap ertispro0 bv2021.0 b1	LGPL-2.1 <u>Other licenses:</u> Public Domain X11 GPL V2 or later with libtool exception GPL V2 or later with autoconf exception GPL V3 or later with autoconf exception	

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37.	libssh2	1.8.0- 2.1co1+a pertispro 0bv2021.0b1	BSD-3-Clause Other licenses: Public Domain X11 GPL V2 or later with libtool exception GPL V2 or later with autoconf exception GPL V3 or later with autoconf exception	 (c) 2004-2007 Sara Golemon <sarag@libssh2.org></sarag@libssh2.org> (c) 2005,2006 Mikhail Gusarov <dottedmag@dottedmag.net></dottedmag@dottedmag.net> (c) 2006-2007 The Written Word, Inc. (c) 2007 Eli Fant <elifantu@mail.ru></elifantu@mail.ru> (c) 2009 Daniel Stenberg (C) 2008, 2009 Simon Josefsson
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49.	sed- gplv2	4.1.2- 8co6+ap ertispro0 bv2021.0 b1	GPL-2.0-ONLY Other licenses: LGPL-2.0-ONLY LGPL-2.1-ONLY X11 Public Domain GFDL-1.1 GPL V2 or later with autoconf exception GPL V2 or later with texinfo exception GPL V2 or later with bison exception FSFUL	Copyright (C) 1999, 2000, 2001, 2002, 2003, 2004 Free Software Foundation, Inc. Copyright (C) 1995-1997, 2000, 2001 by Ulrich Drepper Copyright (C) 1994 X Consortium
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		ertispro0	GPL-2.0-ONLY	© 2003 Free Software Foundation,
		bv2021.0	LGPL-2.1-ONLY	Inc. Authors: Bruno Haible
		b1	GPL V2 or later with libtool	© 1997-2007 by Dimitri van Heesch
			exception	© 1993, Jean-loup Gailly
			FSFUL	2010, Marek Černocký 2010, Andre
			GPL V2 or later with autoconf	Noll 2011, Adrien Nader
			exception	2009-2010, Lasse Collin
			GPL V3 or later with autoconf	2010, Daniel Mealha Cabrita
			exception MIT X11	2009, Andrew Dudman 2009, Lasse
				Collin
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				Copyright (C) 1998, 1999, 2001 Henry
				Spencer.
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55.	yajl	2.1.0-	ISC	
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Google Test	1.6.0	BSD 3- Clause "New" or "Revised " License	http://code.google.com/p/googletest/	Copyright (C) 2003,2005,2006,2007,2 008,2009 Google Inc.All Rights Reserved
HarfBuzz	1.7.4	MIT License	http://harfbuzz.org/	Copyright © 2004,2007,2008,2009,2 010 Red Hat, Inc., Copyright © 2011 Codethink Limited, Copyright © 2010,2011,2012 Google, Inc
libunibreak	2.1	zlib License	http://vimgadgets.sourceforge.net/libunibreak/	Copyright (c) 2008-2011 Wu Yongwei Copyright (c) 2012 Tom Hacohen
lua	5.3.4	Lua 5.0 License	http://www.lua.org/	Copyright (C) 1994- 2017 Lua.org, PUC-Rio
Mediancut	Unspecif ied	Creative Common s CC0 1.0 Universal	http://en.literateprograms.org/Median_cut_algorithm_(C_Plu s_Plus)?oldid=19175	Copyright (C) Socionext Embedded Software Austria GmbH (SESA)

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RBTree.cpp	Unspecif ied	Public Domain	https://github.com/anandarao/Red-Black- Tree/blob/master/RBTree.cpp	Copyright (C) Candera GmbH
BidiReferenc ecpp	26	Unicode Terms of Use (Unicode -TOU)	http://www.unicode.org/Public/PROGRAMS/BidiReferenceC pp/	Copyright © 1991-2010 Unicode
ZLIB	1.2.8	zlib License	http://tracker.debian.org/pkg/zlib	1995-2013 Jean-loup Gailly and Mark Adler
litehtml	Unspecif ied			

3.3.Supplier : Escrypt

	Supplier : Escrypt					
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Component	on		Page			
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	0.9.2			Copyright © 2003, 2004 X/IO Labs,		
	6			xiolabs.com		
Base64_encode_decode	2/16/	Creativecommons		© 2015 stack exchange inc		
_Stack overflow	2015	Attribution ShareAlike 3.0				
libcurl	7.22	Curl License		Copyright (c) 1996 - 2016, Daniel		
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libdbus	1.4.1	Academic Free License		Copyright (C) 2003-2004 Lawrence		
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applypatch	Android4.4	BSD-2-Clause AND Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2009 The Android Open Source Project
aprd	Android4.4	GPL-2.0-only	http://developer.and roid.com/index.html	
atrace	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2012 The Android Open Source Project
audioflinger	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2005-2009,2012 The Android Open Source Project
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bugreport	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2009 The Android Open Source Project
busybox	1.17.1	GPL-2.0-only	http://developer.and roid.com/index.html	Copyright (C) 1998-2009 Erik Andersen, Rob Landley, Denys Vlasenko and others
common_time	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2005-2008,2011- 2012 The Android Open Source Project
compress_si mu	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2011 The Android Open Source Project
connectivitym anager	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2013, The Android Open Source Project
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debuggerd	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	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.and roid.com/index.html	Copyright (C) 1998-2004 WIDE

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				Project. All rights reserved.
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dnsmasq	2.51	GPL-2.0-or-later	http://developer.and roid.com/index.html	Copyright (C) 2000-2009 Simon Kelley
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dumpdata	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2008 The

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e2fsprogs	1.41.14	GPL-2.0-or-later AND LGPL-2.0-or- later AND BSD-3-Clause AND MIT	http://developer.and roid.com/index.html	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.uc algary.ca) Copyright (c) 1988 Regents of the University of California. All rights reserved.

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factorytest	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2006,2007,2014 The Android Open Source Project Copyright (C) 2014 The CyanogenMod Project
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gcc-demangle	4.6	GPL-2.0-or-later AND LGPL-2.0-or- later	http://developer.and roid.com/index.html	Copyright 1992, 1993, 1994, 1995, 1996, 1997, 1998, 2000, 2001, 2002, 2003, 2004, 2005, 2007, 2008, 2009, 2010 ↑ Free Software

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icu4c	49.1.1	ICU	http://developer.and roid.com/index.html	Copyright (c) 1995-2012 International Business Machines Corporation and others All rights reserved.
ime	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2007, The Android Open Source Project
input	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2007, The Android Open Source Project
iosnoop.sh	Android4.4	GPL-2.0-or-later	http://developer.and roid.com/index.html	Copyright (c) 2014 Brendan Gregg.
iotat	Android4.4	Apache-2.0 AND GPL-2.0-only	http://developer.and roid.com/index.html	Copyright 2006,2007 The Android Open Source Project Copyright (C) 2012 Spreadtrum Communications Inc.
iproute2	ss120521	GPL-2.0-or-later	http://developer.and roid.com/index.html	Alexey Kuznetsov, <kuznet@ms2.inr .ac.ru> Copyright (C)2004,2006- 2007 USAGI/WIDE Project</kuznet@ms2.inr
ipsec-tools (racoon)	0.7.3	BSD-3-Clause	http://developer.and roid.com/index.html	Copyright (C) 1995-2003 WIDE

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iptables	1.4.20	GPL-2.0-or-later AND Artistic-2.0	http://developer.and roid.com/index.html	(C) 1999-2006 by the netfilter coreteam <coreteam@netfil ter.org>: Paul 'Rusty' Russell <rusty@rustcorp. com.au></rusty@rustcorp. </coreteam@netfil

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jpeg	Android4.4	BSD-3-Clause AND IJG AND Apache-2.0 AND Zlib	http://developer.and roid.com/index.html	Copyright (C) 2009-2011 Nokia Corporation and/or its subsidiary(-ies). All rights reserved. Contact: Alexander Bokovoy <alexander.boko voy@nokia.com> Copyright (C) 2007-2008,2010- 2011 The Android Open Source Project Copyright (C) 2010-2011 Intel Corporation</alexander.boko
Kernel	4.4	GPL-2.0-only	http://developer.and roid.com/index.html	Copyright (C) 1989, 1991 Free Software Foundation, Inc.
keystore	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2008-2009, 2011-

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keystore- engine	Android4.4	BSD-2-Clause	http://developer.and roid.com/index.html	Copyright 2012- 2013 The Android Open Source Project
libandroid	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2009, 2010 The Android Open Source Project
libandroid_ser vers	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2006-2013 The Android Open Source Project
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libc_malloc_d ebug_leak	Android4.4	BSD-2-Clause	http://developer.and roid.com/index.html	Copyright (C) 2008,2012 The Android Open Source Project All rights reserved.
libc_malloc_d ebug_qemu	Android4.4	BSD-2-Clause	http://developer.and roid.com/index.html	Copyright (C) 2009 The Android Open Source Project All rights reserved.
libcamera	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2005-2008,2011- 2013 The Android Open Source Project
libcameraserv ice	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2005-2008,2012- 2013 The Android Open Source Project
libcorkscrew	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2011, The Android Open Source Project
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libdiskconfig	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright 2008, The Android Open Source Project
libdrmframew ork	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2005-2008,2010 The Android Open Source Project
libeffects	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2005-2013 The Android Open Source Project
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libFmRecord Hal	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2012 The Android Open Source Project
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libhardware_l egacy	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2005-2008, 2011 The Android Open Source Project
libhwui	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2005-2008,2010-

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libion	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright 2011 Google, Inc
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liblog	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2005-2008, The Android Open Source Project
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libmediaplaye rservice	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2005-2009,2012- 2013 The Android Open Source Project
libmemion	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright 2015 The Android Open Source Project
libmemtrack	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2013 The Android Open Source Project
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r			roid.com/index.html	2005-2008, The Android Open Source Project
libnbaio	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2012-2013 The Android Open Source Project
libnetutils	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2005-2008, The Android Open Source Project
libnfc-nxp	1.1	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2010 NXP Semiconductors
libnl	2	LGPL-2.0-only AND GPL-2.0-or- later	http://developer.and roid.com/index.html	Copyright (c) 2003-2009 Thomas Graf <tgraf@suug.ch></tgraf@suug.ch>
libpng	1.2.46	Libpng	http://developer.and roid.com/index.html	Copyright 2000, Willem van Schaik. This code is released under the libpng license. libpng versions 1.2.6, August 15, 2004, through 1.2.46, July 9, 2011, are Copyright (c) 2004, 2006-2009 Glenn Randers- Pehrson, and are distributed according to the same disclaimer

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	libpng-1.2.5 wit	h
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	Contributing	
	Authors	
	Cosmin Truta	L
	libpng versions	
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			roid.com/index.html	2010, 2012 The Android Open
libselinux	Android4.4 Android4.4	Apache-2.0	roid.com/index.html http://developer.and	Copyright (C)
libselinux	Android4.4	Public-domain	http://developer.and	libpng-0.96, with the following individuals added to the list of Contributing Authors: Tom Lane Glenn Randers- Pehrson Willem van Schaik libpng versions 0.89, June 1996, through 0.96, May 1997, are Copyright (c) 1996, 1997 Andreas Dilger Distributed according to the same disclaimer and license as libpng-0.88, with the following individuals added to the list of Contributing Authors: Copyright (c) 2007, 2009 Glenn Randers- Pehrson

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libstagefright	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2005-2013 The Android Open Source Project Copyright (C) 1998-2009 PacketVideo Copyright 2003- 2010, VisualOn, Inc.
libstagefrighth w	Android4.4	MIT AND Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2008,2010 The Khronos Group Inc. Copyright (C) 1998-2009 PacketVideo

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libstdc++	Android4.4	BSD-2-Clause AND MIT	http://developer.and roid.com/index.html	Copyright (c) 1994 Hewlett- Packard Company Copyright (c) 1996,1997 Silicon Graphics Computer Systems, Inc.
libsuspend	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2012 The Android Open Source Project
libsync	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright 2012 Google, Inc
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libvideoeditor	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2005-2008,2011 The Android Open Source Project
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				Android Open Source Project
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logwrapper	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2005-2008, The Android Open Source Project
mdnsrespond er	320.10.80	Apache-2.0 AND BSD-3-Clause AND OpenSSL	http://developer.and roid.com/index.html	Copyright (c) 1997-2006 Apple Computer, Inc. All rights reserved.
media	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2013, The Android Open Source Project
medialog	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2013 The Android Open Source Project
mediaserver	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright 2005- 2008,2013 The Android Open Source Project
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nxppa	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2012 The Android Open Source Project
omx-core	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2011 The Android Open Source Project
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pm	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2007, The

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ррр	2.4.7	BSD-like	http://developer.and roid.com/index.html	This product includes softward developed by Paul Mackerras <paulus@samba org></paulus@samba
pppd	2.4.3	BSD-like AND Apache-2.0 AND MIT	http://developer.and roid.com/index.html	Copyright (c) 1984-2000 Carnegie Mellon University. All rights reserved.
reboot	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2013 The Android Open Source Project
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srec	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	These files are Copyright 2007, 2008 Nuance Communications, but released under the Apache2 License.
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SVC	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2008, The Android Open Source Project
system-extras	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2005-2008, 2010, The Android Open Source Project
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tinyalsa	Android4.4	BSD-3-Clause	http://developer.and roid.com/index.html	Copyright 2011,2012 The Android Open Source Project
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vb_effect	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2012 The Android Open Source Project
vb_pga	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2012 The Android Open Source Project
volte (VideoCall)	Android4.4	Apache-2.0 AND MIT	http://developer.and roid.com/index.html	Copyright (C) 2010 The Android Open Source Project Copyright 2004- 2006 Aaron Voisine <aaron@voisine org></aaron@voisine
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wpa_supplica nt_8	Android4.4	BSD-3-Clause AND MIT	http://developer.and roid.com/index.html	Copyright (c) 2002-2013, Jouni Malinen <j@w1.fi> and contributors All Rights Reserved.</j@w1.fi>
zlib	1.2.8	Zlib	http://developer.and roid.com/index.html	(C) 1995-2013 Jean-loup Gailly and Mark Adler

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AutoOpts	Unsp ecifie d	BSD 3- claus e "New " or "Revi sed" Lice nse	https://github.com/ShiftMediaProj ect/gnutls/tree/master/src/libopts	https://github.com/ShiftMediaProject/gnutls/ tree/master/src/libopts
barebox	2016. 05.0	GNU Gen eral Publi c Lice nse v2.0 or later	http://github.com/RobertCNelson /barebox/	http://github.com/RobertCNelson/barebox/
Berkeley	Unsp ecifie d	BSD 3- claus e "New " or "Revi sed" Lice nse	http://www.berkeley.edu/	http://www.berkeley.edu/
Berkeley_test	Unsp ecifie d	BSD 3- claus e "New " or "Revi sed" Lice nse	http://www.berkeley.edu/	http://www.berkeley.edu/
bison	3.0.2, 2.5	GNU Gen eral Publi	http://savannah.gnu.org/projects/ bison/	http://savannah.gnu.org/projects/bison/

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		c Lice nse v3.0 or later with Biso n exce ption 2.2		
Bob Jenkins - Hashing	Unsp ecifie d	Publi c Dom ain	http://www.burtleburtle.net/bob/in dex.html	http://www.burtleburtle.net/bob/index.html
Boost C++ Libraries - boost	1.59. 0	Boos t Soft ware Lice nse 1.0	http://boost.org/	http://boost.org/
BusyBox	1.24. 1,1.2 3.2	GNU Gen eral Publi c Lice nse v2.0 or later	http://www.busybox.net	http://www.busybox.net
Bzip2	1.0.6	Bzip 2 Lice nse	http://www.bzip.org/	http://www.bzip.org/
CANUTIL	4.0.6	GNU Gen eral Publi c Lice nse	http://www.pengutronix.de/softwa re/socket- can/download/canutils/v4.0/	http://www.pengutronix.de/software/socket- can/download/canutils/v4.0/

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		v2.0 or later		
ConvertUTF.h	Unsp ecifie d	Lice nse for Unic ode	http://unicode.org/	http://unicode.org/
crda	3.18	ISC Lice nse	http://github.com/idor/crda/	http://github.com/idor/crda/
Das U-Boot - Universal Bootloader	Unsp ecifie d	GNU Gen eral Publi c Lice nse v2.0 or later	http://www.denx.de/wiki/U- Boot/WebHome	http://www.denx.de/wiki/U-Boot/WebHome
D-Bus	1.10. 2	Acad emic Free Lice nse v2.1	http://www.freedesktop.org/wiki/l ntroductionToDBus	http://www.freedesktop.org/wiki/Introduction ToDBus
dbus-glib	0.104	Acad emic Free Lice nse v2.1	http://www.freedesktop.org/wiki/ Software/dbus	http://www.freedesktop.org/wiki/Software/d bus
dotzlib	Unsp ecifie d	Boos t Soft ware Lice nse 1.0	https://github.com/madler/zlib/tre e/master/contrib/dotzlib	https://github.com/madler/zlib/tree/master/c ontrib/dotzlib
dt-utils	dt- utils_t est	GNU Gen eral Publi	http://www.pengutronix.de/	http://www.pengutronix.de/

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		or later		
eCryptfs -	108	GNU	http://sourceforge.net/projects/ec	http://sourceforge.net/projects/ecryptfs/
ecryptfs-		Gen	ryptfs/	
userspace		eral		
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		Lice		
		nse v2.0		
		or		
		later		
eudev	Unsp	GNU	http://github.com/gentoo/eudev/	http://github.com/gentoo/eudev/
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Expat XML	Unsp	MIT	http://www.libexpat.org/	http://www.libexpat.org/
Parser -	ecifie	Lice		
libexpat	d	nse		
Filesystem in	2.9.4	GNU	http://sourceforge.net/projects/fu	http://sourceforge.net/projects/fuse/
Userspace		Gen	se/	
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		v2.0		
		or		
		later		
genshellopt	Unsp	GNU	https://github.com/ShiftMediaProj	https://github.com/ShiftMediaProject/gnutls/
	ecifie	Libra	ect/gnutls/tree/master/src/libopts	tree/master/src/libopts
	d	ry		
		Gen		
		eral		

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gkernel - rng-	5	GNU	http://sourceforge.net/projects/gk	http://sourceforge.net/projects/gkernel/
tools		Gen	ernel/	
		eral		
		Publi		
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		Lice		
		nse		
		v2.0		
		or		
		later		
Glib	2.46.	GNU	https://developer.gnome.org/glib/	https://developer.gnome.org/glib/
	0	Libra		
		ry		
		Gen		
		eral		
		Publi		
		c		
		Lice		
		nse		
		v2 or		
		later		
GMP - GNU	6.0.0	GNU	http://gmplib.org/	http://gmplib.org/
Multiple		Gen	Titth://Bitthinp.org/	http://ginplib.org/
Precision	а	eral		
Arithmetic		Publi		
Library		C		
		Lice		
		nse		
		v2.0		
		or		
		later		
GNOME	1.0.1	GNU	http://www.gnome.org/projects/N	http://www.gnome.org/projects/NetworkMa
Network	0	Gen	etworkManager/	nager/
Manager		eral		
		Publi		
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		v2.0 or later		
GNU C Library - glibc	Unsp ecifie d	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://www.gnu.org/software/libc/l ibc.html	http://www.gnu.org/software/libc/libc.html
GNU Get Text	0.15	GNU Gen eral Publi c Lice nse v2.0 or later	http://www.gnu.org/software/gett ext/	http://www.gnu.org/software/gettext/
GNU gettext	0.18.	GNU Libra ry Gen eral Publi c Lice nse v2 or later	http://savannah.gnu.org/projects/ gettext/	http://savannah.gnu.org/projects/gettext/
GnuTLS	3.3.1 3	GNU Less er Gen eral Publi c Lice	http://savannah.gnu.org/projects/ gnutls/	http://savannah.gnu.org/projects/gnutls/

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		nse v2.1 or		
googlemock	1.7.0	later BSD 3-	http://code.google.com/p/google mock/	http://code.google.com/p/googlemock/
		claus		
		e "New		
		" or		
		"Revi		
		sed"		
		Lice		
		nse		
Gstreamer	0.10. 36	GNU Libra	http://gstreamer.freedesktop.org/ modules/	http://gstreamer.freedesktop.org/modules/
	30	ry	modules	
		Gen		
		eral		
		Publi		
		С		
		Lice		
		nse v2 or		
		later		
GSTREAMER	0.10.	GNU	http://gstreamer.freedesktop.org/	http://gstreamer.freedesktop.org/src/gst-
PLUGINS-	36	Less	src/gst-plugins-base/	plugins-base/
BASE		er		
		Gen eral		
		Publi		
		C		
		Lice		
		nse		
		v2.1		
		or later		
hostapd - IEEE	2.5	BSD	http://hostap.epitest.fi/hostapd/	http://hostap.epitest.fi/hostapd/
802.11 AP &		3-		
IEEE		claus		
802.1X/WPA/ WPA2/EAP/RA		e "New		
DIUS		" or		
Authenticator		"Revi		

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XC-CP	XC-CP_RN_AIVI_Scope 3.x	01-04-2025

		sed" Lice nse		
htop	1.0.3	GNU Gen eral Publi c Lice nse v2.0 or later	http://github.com/hishamhm/htop /	http://github.com/hishamhm/htop/
IDEA_FUNCTI ON	Unsp ecifie d	MIT v2 with Ad Clau se Lice nse	https://github.com/ShiftMediaProj ect/libgcrypt/tree/master/cipher	https://github.com/ShiftMediaProject/libgcry pt/tree/master/cipher
imx_usb_loade r	Unsp ecifie d	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://github.com/boundarydevice s/imx_usb_loader/	http://github.com/boundarydevices/imx_usb _loader/
Info-Zip	3.0	Info- ZIP Upd ated Lice nse	http://www.info- zip.org/pub/infozip/Zip.html	http://www.info-zip.org/pub/infozip/Zip.html
lperf	2.0.5	lperf Lice nse	http://sourceforge.net/projects/ip erf/	http://sourceforge.net/projects/iperf/
IPTables	1.4.2 1	GNU Gen	http://www.netfilter.org/	http://www.netfilter.org/

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ISC DHCP	4.1.2	eral Publi c Lice nse v2.0 or later ISC Lice	http://www.isc.org/software/dhcp/	http://www.isc.org/software/dhcp/
iw-ct	3.14	nse ISC Lice nse	http://github.com/greearb/iw-ct/	http://github.com/greearb/iw-ct/
jquery	Unsp ecifie d	MIT Lice nse	http://github.com/jquery/jquery/	http://github.com/jquery/jquery/
keyutils	1.5.9	GNU Gen eral Publi c Lice nse v2.0 or later	http://people.redhat.com/~dhowe lls/keyutils/	http://people.redhat.com/~dhowells/keyutils /
Kmod_Linux	22	GNU Gen eral Publi c Lice nse v2.0 or later	https://github.com/lucasdemarchi /kmod	https://github.com/lucasdemarchi/kmod
Less	443	Less Lice nse	http://www.greenwoodsoftware.c om/less/	http://www.greenwoodsoftware.com/less/
Lib Cap	2.24	BSD 3- claus e	http://sites.google.com/site/fullyc apable/	http://sites.google.com/site/fullycapable/

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		"New		
		" or		
		"Revi		
		sed"		
		Lice		
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libboost	Unsp	Boos		
	ecifie	t		
	d	Soft		
		ware		
		Lice		
		nse		
		1.0		
libbtserviceapi	Unsp	Unsp		
	ecifie	ecifie		
	d	d		
libbtserviceapi	Unsp	Rob		
	ecifie	ert		
	d	Bosc		
		h		
		Prop		
		rietar		
		У		
libetrace	Unsp	Rob		
	ecifie	ert		
	d	Bosc		
		h		
		Prop		
		rietar		
		у		
libffi	3.2.1	Libffi	http://sourceware.org/libffi/	http://sourceware.org/libffi/
	0	Lice		
		nse		
libgcrypt	Unsp	GNU	http://www.gnupg.org	http://www.gnupg.org
	ecifie	Less		
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		v2.1		
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		or		
		later		
libgcrypt_GPL	1.7.6	GNU	https://github.com/ShiftMediaProj	https://github.com/ShiftMediaProject/libgcry
		Gen	ect/libgcrypt/tree/libgcrypt-1.7.6	pt/tree/libgcrypt-1.7.6
		eral		
		Publi		
		с		
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		nse		
		v2.0		
		or		
		later		
Libgpg-error	1.20	GNU	http://www.gnupg.org/	http://www.gnupg.org/
Lib		Less		
		er		
		Gen		
		eral		
		Publi		
		С		
		Lice		
		nse		
		v2.1		
		or		
		later		
libgudev	230	GNU	https://wiki.gnome.org/Projects/li	https://wiki.gnome.org/Projects/libgudev
		Libra	bgudev	
		ry	5	
		Ğen		
		eral		
		Publi		
		с		
		Lice		
		nse		
		v2 or		
		later		
libmnl	Unsp	GNU	http://www.netfilter.org/projects/li	http://www.netfilter.org/projects/libmnl/
	ecifie	Less	bmnl/	
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		v2.1		
		or		
		later		
libmount	Unsp	GNU	https://github.com/karelzak/util-	https://github.com/karelzak/util-
	ecifie	Less	linux/tree/master/libmount	linux/tree/master/libmount
	d	er		
		Gen		
		eral Publi		
		C		
		Lice		
		nse		
		v2.1		
		or		
		later		
libndp	libnd	GNU	http://libndp.org/	http://libndp.org/
	p_tes	Less		
	t1	er		
		Gen		
		eral		
		Publi		
		c		
		Lice		
		nse v2.1		
		or		
		later		
libnftnl	Unsp	GNU	http://www.netfilter.org/projects/li	http://www.netfilter.org/projects/libnftnl/
	ecifie	Gen	bnftnl/	······································
	d	eral		
		Publi		
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		Lice		
		nse		
		v2.0		
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likal Matial	2.2.2	later GNU	http://www.infundenders/tem/libe	
libnl - Netlink Library	3.2.2 5	Less	http://www.infradead.org/~tgr/libn //	http://www.infradead.org/~tgr/libnl/
Library		er	^v	
		Gen		
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		Lice nse v2.1		
		or later		
libnl - Netlink Library	1.1	GNU Less	http://www.infradead.org/~tgr/libn l/	http://www.infradead.org/~tgr/libnl/
Library		er	'	
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		eral		
		Publi		
		с		
		Lice		
		nse		
		v2.1		
		or		
		later		
liboil	0.3.1 6	BSD 2-	http://liboil.freedesktop.org/wiki/	http://liboil.freedesktop.org/wiki/
	•	claus		
		е		
		"Sim		
		plifie		
		d"		
		Lice		
		nse		
libsmartcols	Unsp	GNU	https://github.com/karelzak/util-	https://github.com/karelzak/util-
	ecifie	Less	linux/tree/master/libsmartcols	linux/tree/master/libsmartcols
	d	er		
		Gen		
		eral Publi		
		C		
		Lice		
		nse		
		v2.1		
		or		
		later		
libsocketcan	0.0.1	GNU	http://www.pengutronix.de/softwa	http://www.pengutronix.de/software/libsock
	0	Less	re/libsocketcan/download/	etcan/download/
		er		
		Gen		
		eral		
		Publi		

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		c Lice nse v2.1 or later		
Libtasn1	3.2	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://www.gnu.org/software/libta sn1/	http://www.gnu.org/software/libtasn1/
libtopas_test	Unsp ecifie d	Rob ert Bosc h Prop rietar y		
libtopasapidtsi	Unsp ecifie d	Rob ert Bosc h Prop rietar y		
libusb	1.0.1 8	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://sourceforge.net/projects/lib usb/	http://sourceforge.net/projects/libusb/

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XC-CP	XC-CP_RN_AIVI_Scope 3.x	01-04-2025

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libxml2 2.9.4 MIT http://xmlsoft.org/ http://xmlsoft.org/	
Lice	
libzip 1.0.1 BSD http://www.nih.at/libzip/ http://www.nih.at/libzip/ 3-	
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Logging 1.1.2 Apac http://sourceforge.net/projects/lo http://sourceforge.net/projects/lo Framework for he g4cplus/ http://sourceforge.net/projects/lo http://sourceforge.net/projects/lo	s/log4cplus/
Framework for he g4cplus/ C++ Lice	
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Logging 1.1.2 Apac http://sourceforge.net/projects/lo http://sourceforge.net/projects/lo	s/log4cplus/
Framework for he g4cplus/	<u> </u>
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Logrotate 3.9.1 GNU https://fedorahosted.org/logrotate https://fedorahosted.org/logro Utility Gen / ////////////////////////////////////	otate/
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		c Lice nse		
		v2.0 or later		
lrzsz	0.12. 20	GNU Gen eral Publi c Lice nse v2.0 or later	http://www.ohse.de/uwe/software /lrzsz.html	http://www.ohse.de/uwe/software/Irzsz.html
ltmain.sh	Unsp ecifie d	GNU Gen eral Publi c Lice nse v2.0 or later	http://www.gnu.org	http://www.gnu.org
luafilesystem	v_1_ 6_3	MIT Lice nse	http://github.com/keplerproject/lu afilesystem/	http://github.com/keplerproject/luafilesyste m/
Minicom	2.6.2	GNU Gen eral Publi c Lice nse v2.0 or later	http://alioth.debian.org/projects/ minicom/	http://alioth.debian.org/projects/minicom/
mtd-utils	1.5.2	GNU Gen eral Publi c	http://git.infradead.org/mtd- utils.git	http://git.infradead.org/mtd-utils.git

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	later		
5.9	X11	https://www.gnu.org/software/nc	https://www.gnu.org/software/ncurses/ncur
		urses/ncurses.html	ses.html
2.7.1			http://www.lysator.liu.se/~nisse/nettle/
		ettle/	
	Lice		
	nse		
	v2.1		
	or		
			https://github.com/stevenylai/ralink_sdk/blo
			b/master/source/user/ebtables-v2.0.9-
a	-	eblables-v2.0.9-2/gelethertype.c	2/getethertype.c
	c		
	Lice		
	nse		
7.1p2			http://www.openssh.com/portable.html
		e.ntmi	
	plifie		
	d"		
	Lice		
	nse		
		http://www.openssl.org/	http://www.openssl.org/
е	nSS		
C	L		
	2.7.1 Unsp ecifie d 7.1p2	5.9X11 Lice nse2.7.1GNU Less er Gen eral Publi c Lice nse v2.1 or 	nse v2.0 or laterhttps://www.gnu.org/software/nc urses/ncurses.html5.9X11 Lice nsehttps://www.gnu.org/software/nc urses/ncurses.html2.7.1GNU Less er Gen eral Publi c Lice nsehttp://www.lysator.liu.se/~nisse/n ettle/Unsp ecifie dGNU Libra ry Gen eral Publi c Lice nse v2.1 or laterhttps://github.com/stevenylai/rali nk_sdk/blob/master/source/user/ ebtables-v2.0.9-2/getethertype.c7.1p2BSD 2- claus e "Sim plifie d" Lice nse v2 or laterhttp://www.openssh.com/portabl e.html7.1p2BSD 2- claus e mse v2 or laterhttp://www.openssh.com/portabl e.html7.1p2DP 2- claus e mse v2 or laterhttp://www.openssh.com/portabl e.html7.1p2DP 2- claus e mse v2 or laterhttp://www.openssh.com/portabl e.html7.1p2DP 2- claus e mse v2 or laterhttp://www.openssh.com/portabl e.html

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		bine d Lice nse		
opkg	0.3.0	GNU Gen eral Publi c Lice nse v2.0 or later	https://git.yoctoproject.org/cgit/cg it.cgi/opkg/	https://git.yoctoproject.org/cgit/cgit.cgi/opkg /
PCRE	8.32	PCR E 5 Lice nse	http://sourceforge.net/projects/pc re/	http://sourceforge.net/projects/pcre/
PCSC Lite	Unsp ecifie d	BSD 3- claus e "New " or "Revi sed" Lice nse	http://pcsclite.alioth.debian.org/	http://pcsclite.alioth.debian.org/
Popt	1.15	X11 Lice nse	http://freshmeat.net/projects/popt /	http://freshmeat.net/projects/popt/
ppp - Pauls PPP Package	Unsp ecifie d	GNU Gen eral Publi c Lice nse v2.0 or later	http://ppp.samba.org/ppp/index.h tml	http://ppp.samba.org/ppp/index.html
ppp - Pauls PPP Package	2.4.7	GNU Gen eral	https://ppp.samba.org/index.html	https://ppp.samba.org/index.html

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		Publi c Lice nse v2.0 or later		
protobuf	2.5.0	BSD 3- claus e "New " or "Revi sed" Lice nse	http://code.google.com/p/protobu f/	http://code.google.com/p/protobuf/
ReadLine Front-End	Unsp ecifie d	GNU Gen eral Publi c Lice nse v2.0 or later	https://github.com/issuu/readline/ tree/master/examples/rlfe	https://github.com/issuu/readline/tree/maste r/examples/rlfe
rsync	2.6.9	GNU Gen eral Publi c Lice nse v2.0 or later	http://samba.anu.edu.au/rsync/	http://samba.anu.edu.au/rsync/
S Trace	4.10	BSD 3- claus e "New " or "Revi	http://sourceforge.net/projects/str ace/	http://sourceforge.net/projects/strace/

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		sed" Lice nse		
siphash	Unsp ecifie d	Publi c Dom ain	http://github.com/dchest/siphash/	http://github.com/dchest/siphash/
smhasher	3090 200	Publi c Dom ain	http://code.google.com/p/smhash er/	http://code.google.com/p/smhasher/
SQLite	3090 200	Publi c Dom ain	http://www.hwaci.com/sw/sqlite/i ndex.html	http://www.hwaci.com/sw/sqlite/index.html
squashfs-tools	4.3	GNU Gen eral Publi c Lice nse v2.0 or later	http://github.com/plougher/squas hfs-tools/	http://github.com/plougher/squashfs-tools/
systemd	228	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://freedesktop.org/wiki/Softwa re/systemd/	http://freedesktop.org/wiki/Software/system d/
Tiny Asynchronous DNS lookup library	Unsp ecifie d	Beer ware Lice nse	http://sourceforge.net/projects/ad ns/	http://sourceforge.net/projects/adns/
TLSF	1.9	Publi c	http://tlsf.baisoku.org	http://tlsf.baisoku.org

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		Dom		
		ain		
UBIFS	Unsp	GNU	http://www.linux-	http://www.linux-
	ecifie	Gen	mtd.infradead.org/doc/ubifs.html	mtd.infradead.org/doc/ubifs.html
	d	eral	_	
		Publi		
		с		
		Lice		
		nse		
		v2.0		
		or		
		later		
uClibc - A C	0.9.3	GNU	http://www.uclibc.org/	http://www.uclibc.org/
Library for	0.3	Less		
Embedded		er		
Linux		Gen		
		eral		
		Publi		
		C		
		Lice		
		nse v2.1		
		or later		
USB Utils	007	GNU	https://www.kernel.org/pub/linux/	https://www.kernel.org/pub/linux/utils/usb/u
COD Cuis	007	Gen	utils/usb/usbutils/	sbutils/
		eral		
		Publi		
		С		
		Lice		
		nse		
		v2.0		
		or		
		later		
USB-DFU	1.0	GNU	http://www.usb.org/home	http://www.usb.org/home
		Gen		
		eral		
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		v2.0		
		or		
		later		

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usbnet	Unsp ecifie d	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://www.linux-usb.org/usbnet/	http://www.linux-usb.org/usbnet/
Util-Linux	2.27.	GNU Gen eral Publi c Lice nse v2.0 or later	http://freshmeat.net/projects/util- linux/	http://freshmeat.net/projects/util-linux/
util-unix-ng	Unsp ecifie d	GNU Gen eral Publi c Lice nse v2.0 or later	http://userweb.kernel.org/~kzak/u til-linux-ng/	http://userweb.kernel.org/~kzak/util-linux- ng/
Wide_Project	Unsp ecifie d	BSD 3- claus e "New " or "Revi sed" Lice nse	http://www.wide.ad.jp/index.html	http://www.wide.ad.jp/index.html
wireless-tools	30	GNU Gen	http://www.hpl.hp.com/personal/J ean_Tourrilhes/Linux/Tools.html	http://www.hpl.hp.com/personal/Jean_Tourr ilhes/Linux/Tools.html

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		eral Publi c Lice nse v2.0 or later		
wpa_supplican t - IEEE 802.1X, WPA, WPA2, RSN, IEEE 802.11i	2.5	BSD 3- claus e "New " or "Revi sed" Lice nse	http://hostap.epitest.fi/wpa_suppl icant/	http://hostap.epitest.fi/wpa_supplicant/
XZ Utils	5.0.4	Publi c Dom ain	http://tukaani.org/xz/	http://tukaani.org/xz/
yajl	Unsp ecifie d	ISC Lice nse	http://github.com/lloyd/yajl/	http://github.com/lloyd/yajl/
yajl	2.1.0	ISC Lice nse	http://github.com/lloyd/yajl/	http://github.com/lloyd/yajl/
zlib	1.2.8, 1.1.3	zlib Lice nse	http://www.zlib.net	http://www.zlib.net

3.6.Supplier: Nuance

Spplier: Nuance					
Component	Version	License	Home Page	Copyright	
PCRE	8.44	BSD 3-Clause "New" or "Revised" License	http://www.pcre.org		

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3.7.Supplier : OMRON

	Supplier: OMRON				
Component	Versi	License	Homepage	Copyright	
name	on				
SimString	1	The BSD	http://www.chokkan.org/softw	Copyright (c) 2009,2010 Naoaki Okazaki	
		license	are/simstring/	All rights reserved.	

3.8.Supplier : Redbend_SWM

	Supplier: Redbend_SWM				
Component	Version	Licens e	Home Page	Copyright	
action	0.1.1	Apache License 2.0	http://repo1.maven. org/maven2/com/nin g/metrics.action/	http://repo1.maven. org/maven2/com/nin g/metrics.action/	
Android - platform - dalvik	2.1_r1	Apache License 2.0	http://developer.and roid.com/index.html	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	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	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	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	https://developer.an droid.com/tools/sup port- library/index.html	
Drools :: Scorecards	5.5.0.Fi nal	Apache License 2.0	http://mirrors.ibiblio. org/maven2/org/drools/droolsscore cards/	http://mirrors.ibiblio. org/maven2/org/drools/droolsscore cards/	
mongolduu	master- 201211 09	Apache License 2.0	http://github.com/tug stugi/mongolduu/	http://github.com/tug stugi/mongolduu/	
Stan-for- Android	0.1.0	Apache License 2.0	http://github.com/La bel305/Stan- forAndroid/	http://github.com/La bel305/Stan- forAndroid/	

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doT	1.0.1	MIT License	http://github.com/ola do/doT/	http://github.com/ola do/doT/
jquery	2.0.3	MIT License	http://github.com/jqu ery/jquery/	http://github.com/jqu ery/jquery/
jquery_mobile _rails	1.3.2	MIT License	http://rubygems.org/gems/jquery_m obile_rails	http://rubygems.org/gems/jquery_m obile_rails
SafeSlinger- Android	1.8.3- messen ger	MIT License	http://github.com/Sa feSlingerProject/Saf eSlinger- Android/	http://github.com/Sa feSlingerProject/Saf eSlinger- Android/
OpenSSL	Generic Version	OpenS SL Combin ed License	http://www.openssl.org/	http://www.openssl.org/
CRC32 MIT.edu	Generic Version	Public Domain	http://web.mit.edu/	http://web.mit.edu/
SHA-1 in C	9/1/200 1	Public Domain	http://www.mirrors.w iretapped.net/securit y/cryptography/hash es/sha1	http://www.mirrors.w iretapped.net/securit y/cryptography/hash es/sha1
SyncML C Toolkit	4.0.3	SyncM L License	http://sourceforge.n et/projects/syncmlctoolkit/	http://sourceforge.n et/projects/syncmlctoolkit/

3.9.Supplier : Redbend

			Supplier: Redbend	
Component	Versi	License	Home Page	Copyright
	on			
7 Zip - LZMA	9.2	Public	http://www.7-zip.org/sdk.html	http://www.7-zip.org/sdk.html
SDK		Domain		
7 Zip - LZMA	4.01	Public	http://sourceforge.net/projects/sev	http://sourceforge.net/projects/sevenzip
SDK		Domain.	enzip/	/
Android -	4.2	Apache	http://developer.android.com/inde	http://developer.android.com/index.html
platform -		License	x.html	••••••
bootable -		2.0		
recovery				
Android -	4.2	Apache	http://developer.android.com/inde	http://developer.android.com/index.html
platform -		License	x.html	
system - core		2.0		

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bsdiff	4.3	BSDiff license	http://github.com/geraldonetto/bs diff/	http://github.com/geraldonetto/bsdiff/
CMarkup	11.05	Acquire d CMarku p Develop er License	http://www.firstobject.com/dn_mar kup.htm	http://www.firstobject.com/dn_markup.h tm
CRC table (Autogen)	Has no versio n numb er	Public Domain	http://en.wikipedia.org/wiki/Cyclic _redundancy _check	http://en.wikipedia.org/wiki/Cyclic_redu ndancy _check
Filesystem in Userspace	2.8.5	BSD 2- clause "Simplifi ed" License	http://sourceforge.net/projects/fus e/	http://sourceforge.net/projects/fuse/
Filesystem in Userspace	2.9.3	GNU Lesser General Public License v2.1 or later	http://sourceforge.net/projects/fus e/	http://sourceforge.net/projects/fuse/
FreeBSD	2.2.2	BSD 4- clause "Original " or "Old" License	http://www.freebsd.org	http://www.freebsd.org
Freescale Semiconducto r CodeWarrior Development Studio for MPC55xx/MP C56xx	2.10 speci al editio n	Commer cial license		
GNU C Library - glibc	2.2.4	GNU Lesser General	http://www.gnu.org/software/libc/li bc.html	http://www.gnu.org/software/libc/libc.ht ml

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		Public License v2.1 or later		
Lawicel CAN USB sample code	0.1.8	Lawicel CAN USB sample code license	http://www.can232.com/?page_id =75	http://www.can232.com/?page_id=75
libdivsufsort	2.0.0	MIT License	http://code.google.com/p/libdivsuf sort/	http://code.google.com/p/libdivsufsort/
lz4	94	BSD 2- clause "Simplifi ed" License	http://code.google.com/p/lz4/	http://code.google.com/p/lz4/
LZO real-time data compression library	2.04	Acquire d commer cial license	http://www.oberhumer.com/opens ource/lzo/	http://www.oberhumer.com/opensource /lzo/
MSDN Sample Code	vs.85	Microsof t Limited Public License (Ms- LPL)	http://msdn.microsoft.com/en- US/windows/	http://msdn.microsoft.com/en- US/windows/
NetBSD	6	BSD 3- clause "New" or "Revise d" License	http://www.netbsd.org/	http://www.netbsd.org/
UCL Data Compression Library	1.03	Acquire d commer cial license	http://www.oberhumer.com/opens ource/ucl/	http://www.oberhumer.com/opensource /ucl/
XMLFoundatio n	Apr- 14	MIT License	http://xmlfoundation.codeplex.co m/	http://xmlfoundation.codeplex.com/
zlib	1.2.3	zlib License	http://www.zlib.net	http://www.zlib.net

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3.10.Supplier : SK_telecom

			oplier: SK_telecom	
Component name	Versio n	License	Homepage	Copyright
aladdin-md5	Unspe cified	zlib License	https://opensource.apple.co m/source/cups/cups- 30/cups/md5.h.auto.html	Copyright (C) 1999 Aladdin Enterprises
Alsa Libraries	Unspe cified	GNU Lesser General Public License v2.1 or later	http://www.alsa-project.org/	
Android - platform - frameworks - base	androi d- 7.0.0_r 1	Apache License 2.0	https://android.googlesource. com/platform/frameworks/ba se	(C) 2015 The Android Open Source Project
Android - platform - frameworks - base	Unspe cified	Apache License 2.0	https://android.googlesource. com/platform/frameworks/ba se	
Anti-Grain Geometry	Unspe cified	Anti-Grain Geometry Public License	http://sourceforge.net/project s/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.com/ KB/cpp/MemoryPool.aspx	
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/gec ko-dev/	(C) 2002 Jean-Marc Valin
gpclib	Unspe cified	Commercial License	http://github.com/rdpeng/gpcl ib/	(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

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GStreamer	Unspe cified	GNU Library General Public License v2 or later	http://gstreamer.freedesktop. org/modules/	
jsoncpp	Unspe cified	Public Domain or MIT	http://sourceforge.net/project s/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	master - 20141 123	zlib License	http://github.com/progschj/O penGL-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 "Revised" License	http://opus-codec.org	Copyright (c) 2007-2008 CSIRO Copyright (c) 2007-2010 Xiph.Org Foundation Copyright (c) 2008 Gregory Maxwell
pkgconf	Unspe cified	ISC License	http://github.com/pkgconf/pk gconf/	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/dev elopers/powervr-sdk- tools/installers/	
SDL	2	zlib License	http://www.libsdl.org/index.p hp	Copyright (C) 1997-2016 Sam Lantinga
SDL_gfx	Unspe cified	zlib License	http://sourceforge.net/project s/sdlgfx/	
Speex	1.2bet a2 dev	BSD 3-clause "New" or "Revised" License	http://www.speex.org/	
SQLite	Unspe cified	Public domian	http://www.sqlite.org/	
Sunrise/set calculator	Unspe cified	Public domian	https://stjarnhimlen.se/comp/ sunriset.c	
tiny-AES128-C	20141 218	Public domian	http://github.com/kokke/tiny- AES128-C/	

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wosh	Unspe cified	BSD 3-clause "New" or "Revised"	http://code.google.com/p/wo sh/	Copyright (C) 2002 Michael Ringgaard. All rights reserved.
		License		
zlib	1.2.11	zlib License	http://www.zlib.net/	

3.11.Node Modules Components

Name of OSS Component	Version of OSS Component	Name and Version of License	Home page
buffer-crc32	0.2.5	MIT	https://github.com/brianloveswords/buffer- crc32
dbus-native	0.2.0	MIT	https://github.com/sidorares/node-dbus
dbus-proxy	0.0.0- unreleasable	NA	NA
abstract-socket	1.0	MIT	https://github.com/saghul/node- abstractsocket
bindings	1.2.1	MIT	https://github.com/TooTallNate/node- bindings
nan	2.4.0	MIT	https://github.com/nodejs/nan#readme
1to2	1.0.0	MIT	NA
event-stream	3.3.4	MIT	http://github.com/dominictarr/event-stream
duplexer	0.1	MIT	https://github.com/Raynos/duplexer
from	0.3	MIT	https://github.com/dominictarr/from
map-stream	0.0	NA	http://github.com/dominictarr/map-stream
pause-stream	0.0.11	MIT, Apache2	https://github.com/dominictarr/pause-stream
split	0.3.3	MIT	http://github.com/dominictarr/split
stream-combiner	0.0.4	MIT	https://github.com/dominictarr/stream- combiner
through	2.3.8	MIT	https://github.com/dominictarr/through
put	0.0.6	MIT/X11	https://github.com/substack/node-put
xml2js	0.14	NA	https://github.com/Leonidas-from-XIV/node- xml2js
sax	1.2.1	ISC	https://github.com/isaacs/sax-js#readme
iconv-lite	0.4.15	MIT	https://github.com/ashtuchkin/iconv-lite
jbinary	2.2	MIT	https://github.com/jDataView/jBinary

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es6-promise	2.0.1	MIT	NA
es6-promise	2.0.1	MIT	https://github.com/jakearchibald/ES6- Promises
jdataview	2.5.0	WTFPL	http://jDataView.github.io/
request	2.53.0	Apache-2.0	https://github.com/request/request
aws-sign2	0.5.0	NA	https://github.com/mikeal/aws-sign
bl	0.9.4	MIT	https://github.com/rvagg/bl
readable-stream	1.0.33	MIT	https://github.com/isaacs/readable-stream
core-util-is	1.0.1	MIT	https://github.com/isaacs/core-util-is
inherits	2.0.1	ISC	https://github.com/isaacs/inherits
isarray	0.0.1	MIT	https://github.com/juliangruber/isarray
string_decoder	0.10.31	MIT	https://github.com/rvagg/string_decoder
caseless	0.9.0	BSD	https://github.com/mikeal/caseless
combined-stream	0.0.7	NA	https://github.com/felixge/node-combined- stream
delayed-stream	0.0.5	NA	https://github.com/felixge/node-delayed- stream
forever-agent	0.5.2	NA	https://github.com/mikeal/forever-agent
form-data	0.2.0	MIT	https://github.com/felixge/node-form-data
async	0.9.0	MIT	https://github.com/caolan/async
hawk	NA	./LICENSE	NA
hawk	2.3.1	BSD	https://github.com/hueniverse/hawk
boom	2.6.1	BSD	https://github.com/hapijs/boom
cryptiles	2.0.4	BSD	https://github.com/hapijs/cryptiles
hoek	2.11.0	BSD	https://github.com/hapijs/hoek
sntp	1.0.9	BSD	https://github.com/hueniverse/sntp
http-signature	0.10.1	MIT	https://github.com/joyent/node-http- signature/
asn1	0.11	NA	NĂ
assert-plus	0.5	NA	https://github.com/mcavage/node-assert- plus
ctype	0.5.3	NA	https://github.com/rmustacc/node-ctype
isstream	0.1	MIT	https://github.com/rvagg/isstream
json-stringify-safe	5.0.0	BSD	https://github.com/isaacs/json-stringify-safe
mime-types	2.0.9	MIT	https://github.com/jshttp/mime-types
mime-db	1.7.0	MIT	https://github.com/jshttp/mime-db

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node-uuid	1.4.2	MIT	https://github.com/broofa/node-uuid
oauth-sign	0.6.0	NA	https://github.com/mikeal/oauth-sign
qs	2.3.3	BSD	https://github.com/hapijs/qs
stringstream	0.0.4	MIT	https://github.com/mhart/StringStream
tough-cookie	0.12.1	MIT	https://github.com/goinstant/tough-cookie
punycode	1.3.2	MIT	https://mths.be/punycode
tunnel-agent	0.4.0	NA	https://github.com/mikeal/tunnel-agent
mkdirp	0.5.0	MIT	https://github.com/substack/node-mkdirp
minimist	0.0.8	MIT	https://github.com/substack/minimist
xml2js	0.4.5	MIT	https://github.com/Leonidas-from-XIV/node- xml2js
sax	0.6.1	BSD	https://github.com/isaacs/sax-js
xmlbuilder	2.5.1	MIT	http://github.com/oozcitak/xmlbuilder-js
lodash	3.0	MIT	https://lodash.com/

3.12. Miscellaneous components:

SI. No	Component	Version	Home Page	License
	Android SDK Support		https://developer.android.com/tools/supp	
1	Libraries – 19	23.1.1	ort-library/index.html	Apache License 2.0
				OpenSSL Combined
2	OpenSSL		http://www.openssl.org/	License
3	CRC32		http://web.mit.edu/	Public Domain
			http://www.mirrors.wiretapped.net/securit	
4	SHA-1 in C		y/cryptography/hashes/sha1	Public Domain
	Android - platform -			Anacha Liconae 2.0
5	bootable – recovery	4.0.1_r1	http://developer.android.com/index.html	Apache License 2.0
	Android - platform -			Apache License 2.0
6	bootable – recovery	5.0.0_r1	http://developer.android.com/index.html	Apache License 2.0
	Android - platform -			
7	bootable – recovery	2.3_r1	http://developer.android.com/index.html	Apache License 2.0
	File system in			BSD 2-clause
8	Userspace	2.8.7	http://sourceforge.net/projects/fuse/	"Simplified" License
	Iz4 Compression			BSD 2-clause
9	algorithm	r111	http://code.google.com/p/lz4/	"Simplified" License
	Android -platform -			
	system -		https://android.googlesource.com/platfor	BSD 3-clause "New" or
10	core/libmincrypt		m/system/core/+/master/libmincrypt	"Revised" License

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	lucy search engine –		http://sourceforge.net/projects/lucy-	BSD 3-clause "New" or
11	lucy	0.6.0	search/	"Revised" License
12	NetBSD	1.4	http://www.netbsd.org/	BSD 3-clause "New" or "Revised" License
13	Open BSD	4.5	http://www.openbsd.org	BSD 3-clause "New" or "Revised" License
		trunk- 20120916-		
15	Test-SQLite-blob	svn	http://code.google.com/p/test-sqlite-blob/	MIT License
16	7-Zip	3.11	http://sourceforge.net/projects/sevenzip/	Public Domain
17	XZ Utils	5.0.7	http://tukaani.org/xz/	Public Domain
18	PCRE	5.0		Public Domain
19	RSA MD5		http://userpages.umbc.edu/~mabzug1/cs/ md5/md5.html	Public Domain
20	Kazlib		http://savannah.nongnu.org/projects/kazli b	Public Domain
21	Doug Lea heap	2.8.3		Public Domain
22	zlib	1.2.6		Public Domain
23	CURL	7.16.0	http://curl.haxx.se/libcurl	Public Domain
24	EXPAT	1.95.8		Public Domain

3.13. Supplier: Obigo

For license Terms and Conditions: Refer Section 5

	Supplier: OBIGO				
SI.No	Name of OSS Component	Version		License	Copyright
1	vuejs		2.4	MIT License	Copyright (c): 2013- present, Yuxi (Evan) You
2	vux	0.1.3		MIT License	Copyright (c): 2016- present, Airyland

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3	es6-promise		3.3	MIT License	Copyright (c): Yehuda Katz, Tom Dale, Stefan Penner and contributors
4	Quasar framework		0.5	MIT License	Copyright (c): 2015- present Razvan Stoenescu
5	tween.js		16.6	MIT License	Copyright (c): 2010- 2012 Tween.js authors.
6	iScroll		5	MIT License	Copyright (c): 2014 Matteo Spinelli, cubiq.org
7	array-filter	1.0.0		MIT License	Copyright (c): 2013 Julian Gruber <julian@juliangruber. com></julian@juliangruber.
8	array-find	1.0.0		MIT License	Copyright (c): Stefan Duberg <stefanduberg@gmail .com></stefanduberg@gmail
9	array-from	1.0.0		MIT License	Copyright (c): Studio B12 GmbH
10	array-map	0.0.0		MIT License	Copyright (c): James Halliday <mail@substack.net></mail@substack.net>
11	array-shuffle	1.0.0		MIT License	Copyright (c): Sindre Sorhus <sindresorhus@gmail .com></sindresorhus@gmail
12	countup	1.6.1		MIT License	Copyright (c): Jamie Perkins
13	object-assign	4.1.0		MIT License	Copyright (c): Sindre Sorhus <sindresorhus@gmail .com></sindresorhus@gmail
14	photoswipe		4.1	MIT License	Copyright (c): Dmitry Semenov
15	shake.js	1.2.2		MIT License	Copyright (c): Fractal <contact@wearefract al.com></contact@wearefract

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16	validator	5.1.0	MIT License	Copyright (c):2018 Chris O'Hara <cohara87@gmail.co m></cohara87@gmail.co
17	webp-support	1.0.3	MIT License	Copyright (c): 2016- present, Airyland
18	HTML Parser		Mozilla Public License , Apache Software License 2.0	Copyright (c): 2004 Erik Arvidsson
19	archiver	2.1.0	MIT License	Copyright (c): 2012- 2014 Chris Talkington
20	async	2.6.3	MIT License	Copyright (c): 2010- 2018 Caolan McMahon
21	bluebird	3.5.5	MIT License	Copyright (c): 2013- 2018 Petka Antonov
22	extract-zip	1.7.0	BSD-2- Clause License	Copyright (c): 2014 Max Ogden
23	fs-extra	2.1.2	MIT License	Copyright (c): 2011- 2017 JP Richardson
24	iconv-lite	0.4.24	MIT License	Copyright (c): 2011 Alexander Shtuchkin
25	is-online	7.0.0	MIT License	Copyright (c): Sindre Sorhus <sindresorhus@gmail .com></sindresorhus@gmail
26	json-rpc2	1.0.2	MIT License	Copyright (c): 2009 Eric Florenzano, Ryar Tomayko
27	lodash	4.17.15	MIT License	Copyright (c): JS Foundation
28	progress- stream	2.0.0	BSD-2- Clause License	Copyright (c): Tobias Baunbæk <freeall@gmail.com></freeall@gmail.com>
29	scp2	0.5.0	MIT License	Copyright (c): 2013 Hsiaoming Yang
30	ssh2	0.5.5	MIT License	Copyright (c): Brian White

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31	sshpk	1.61.1	MIT License	Copyright (c): Joyent, Inc
32	targz	1.0.1	MIT License	Copyright (c): Miska Kaipiainen <miska.kaipiainen@g mail.com></miska.kaipiainen@g
33	vboxmanage.js	1.0.6	MIT License	Copyright (c): 2016 Daniel Cohen Gindi
34	xml2js	0.4.23	MIT License	Copyright (c): 2010, 2011, 2012, 2013. All rights reserved.
35	requirejs	2.1.1	MIT License	Copyright (c): jQuery Foundation
36	semver	2.1.0	ISC License	Copyright (c): Isaac Z. Schlueter
37	SlowAES	0.1a1	Apache License	Copyright (c): Josh Davis
38	which	1.0.5	ISC License	Copyright (c): Isaac Z. Schlueter
39	eventemitter2	1.0.0	MIT License	Copyright (c): 2016 Paolo Fragomeni
40	moment.js	2.24.0	MIT License	Copyright (c): 2016 Paolo Fragomeni
41	bootstrap	2.3.1	MIT License	Copyright (c): 2011- 2018 Twitter, Inc. Copyright (c): 2011- 2018 The Bootstrap Authors
42	flexbuffers	1.7.1	Apache 2.0	https://obigo.com/
43	etch	1.4.0	Apache license, v2	Copyright (C) 2012 BMW Car IT GmbH
44	CppSQLite - C++ Wrapper for SQLite	3.2	CPOL 1.02	Copyright (c): 20042007 Rob Groves. All Rights Reserved. rob.groves@btinternet .com
45	afl-fuzz	2.31b	Apache 2.0 License	https://obigo.com/
46	android craxy linker		BSD 3 License	Copyright (c): 2014 The Chromium Authors

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47	platform_syste m_core		Apache 2.0 License	https://obigo.com/
48	angle	master_2014-10-03	BSD 3 License	Copyright (c): 2002- 2013 The ANGLE Project Authors.
49	Blink		LGPL 2.1	Copyright (c): 2014 The Chromium Authors.
50	boringssl	master	BSD 3 License	https://obigo.com/
51	breakpad	origin/chrome_53	BSD 3, Apple PSL 2.0 and Apache 2.0 License	Copyright (c): 2006, Google Inc
52	brotli	v0.4.0	MIT License	Copyright (c): 2009, 2010, 2013-2015 by the Brotli Authors.
53	catapult	0.1.0-alpha-1	BSD 3 License	Copyright (c): 2015 The Chromium Authors
54	cacheinvalidatio n	master_2014-09-04	Apache 2.0 License	https://obigo.com/
55	cld2	master_2017-12-14	Apache 2.0 License	https://obigo.com/
56	fontconfig	2.11.0	MIT License	Copyright (c): 2012 Google, Inc.
57	compact_encod ing_detection		Apache 2.0 License	Copyright (c): 2016 Google Inc.
58	cld3	2f6624f0a6d6fd8f76bdcae38558 c73d23ebec1e	Apache 2.0 License	Copyright (c): 2016 Google Inc.
59	coveragepy- coverage	4.0.3	Apache 2.0 License	Copyright (c): 2004- 2015 Ned Batchelder
60	crashpad- electron	v1.6.12	Apache 2.0 License	https://obigo.com/
61	dmg_fp	master_2014-05-19	MIT License	Copyright (c): 1991, 2000, 2001 by Lucent Technologies.
62	external- chromium_org-	kk-4.4.2_r1.m1	Apache 2.0 License	Copyright (c): 2008 The open-vcdiff Authors.

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	sdch-open- vcdiff-mips			
63	flac	1.3.1	BSD 3 License	Copyright (c): 2011- 2014 Xiph.Org Foundation
64	flatbuffers	v1.2.0	Apache 2.0 License	Copyright (c): 2014 Google Inc
65	freetype2	VER-2-8-1	Custom License (Fre etype Project License)	https://obigo.com/
66	glslang	GoogleGlslang20160218	MIT License	Copyright (c): 2015- 2016 The Khronos Group Inc.
67	googlemock	release-1.7.0	BSD 3 License	Copyright (c): 2008, Google Inc.
68	googletest	release-1.7.0	BSD 3 License	Copyright (c): 2008, Google Inc.
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Copyright FAQ

1. I don't understand the resale restriction... What gives?

Bitstream is giving away these fonts, but wishes to ensure its competitors can't just drop the fonts as is into a font sale system and sell them as is. It seems fair that if Bitstream can't make money from the Bitstream Vera fonts, their competitors should not be able to do so either. You can sell the fonts as part of any software package, however.

2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves. See 1. above.

3. Are derivative works allowed?

Yes!

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

Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

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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.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

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 12/07/2007	-Fixed execScalar to handle a NULL result -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::RollbackTransaction() CppSQLite3DB::getDB() CppSQLite3DB::RestoreOrBackupDb() by OBIGO

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1.3 thru 1.	5.2 1.2	1	995-1	999	CNF	RI y	/es
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)1	CN	RI	yes (2	2)
2.1	2.0+1.6.	1 2	001	Ρ	SF	no	
2.0.1	2.0+1.6	.1 2	2001	F	PSF	yes	
2.1.1	2.1+2.0	.1 2	2001	F	PSF	yes	
2.1.2	2.1.1	20	02	PS	F	yes	
2.1.3	2.1.2	20	02	PS	F	yes	
2.2 and above 2.1.1 2001-now PSF 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.

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- web_test.py Also cythonize as many of the tests as possible.

4.105.zlib license

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

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Fixed a potential null pointer dereference in png_set_text_2() (bug report and patch by Patrick Keshishian).

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.

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concluded that weaker conditions might promote sharing better.

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

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(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

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root function must still compute square roots.)

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

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

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-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);

CppSQLite3Statement::bind(int nParam, const sqlite_int64 nValue);

CppSQLite3Statement::bind(int nParam, const uint64_t nValue);

CppSQLite3Statement::Step()

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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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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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 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.

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0.9.0 thru 1.2		1991-1	995 CWI	yes	
1.3 thru 1.5.2 1.2		1995-1999 (RI yes	
1.6	1.5.2	2000	CNRI	no	
2.0	1.6	2000	BeOpen.	com no	
1.6.1	1.6	2001	CNRI	yes (2)	
2.1	2.0+1.6	.1 2001	PSF	no	
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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 incompatibilities in options.py
- util.py Make ArgReplacer compatible with cython.
- web_test.py Also cythonize as many of the tests as possible.

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Portions of code from MODP_ASCII - Ascii transformations (upper/lower, etc)

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This file contains the following sections:

OVERVIEWGeneral description of JPEG and the IJG software.LEGAL ISSUESCopyright, lack of warranty, terms of distribution.REFERENCESWhere to learn more about JPEG.ARCHIVE LOCATIONSWhere to find newer versions of this software.FILE FORMAT WARSSoftware *not* to get.

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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

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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 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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The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

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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REFERENCES

We recommend reading one or more of these references before trying to 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.

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(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.

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ARCHIVE LOCATIONS

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

> send usenet/news.answers/jpeg-faq/part1 send usenet/news.answers/jpeg-faq/part2

FILE FORMAT WARS

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

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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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