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XC-CP	XC-CP_INF_RN_AIVI_Scope3.x	4-04-2025

Open-Source Software Attributions for XC-CP\_INF\_ RN\_AIVI\_Scope 3.x

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Version 3.1, 31 March 2009

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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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"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.

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



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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

- 7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
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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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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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sh	Android4.4	BSD-3-Clause AND BSD-4-Clause-UC	http://developer.and roid.com/index.html	Copyright (c) 1991, 1993 The Regents of the University of California. All rights reserved. Copyright (c) 1997 Christos Zoulas. All rights reserved. Copyright (c) 2003 The NetBSD Foundation, Inc. All rights reserved. Copyright (c) 1991, 1993 The Regents of the University of California. All rights reserved.
skia	Android4.4	Apache-2.0 AND OFL-1.1 AND BSD-3-Clause AND SGI-B-2.0	http://developer.and roid.com/index.html	Copyright 2009,2010 The Android Open Source Project
smart_amp	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2012-2015, The Linux Foundation. All rights reserved.
softkeymaster	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2012-2013 The Android Open Source Project
sonivox	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (c) 2004-2006 Sonic Network Inc.
speex	1.2 rc1	BSD-3-Clause	http://developer.and roid.com/index.html	Copyright (C) 2002-2008 Jean-

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		Marc Valin
		Copyright (C)
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		Valin & David
		Rowe
		Copyright (C)
		2003 Epic
		Games
		Copyright (C)
		2003 Epic
		Games (written
		by Jean-Marc
		Valin)
		Copyright (C)
		2004-2006 Epic
		Games
		Copyright (C)
		2005 Analog
		Devices
		Copyright (C)
		2005 Jean-Marc
		Valin, CSIRO,
		Christopher
		Montgomery
		Copyright (C)
		2006 David Rowe
		Copyright (C)
		2006-2008
		CSIRO, Jean-
		Marc Valin,
		Xiph.Org
		Foundation
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		2008 Thorvald
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		Copyright (c)
		2003-2004, Mark
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		Texas

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				Instruments Copyright 1992, 1993, 1994 by Jutta Degener and Carsten Bormann, Technische Universitaet Berlin
sqlite	3.7.11	Public-domain	http://developer.and roid.com/index.html	
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.
stlport	5	AFL-3.0 AND BSD-2-Clause AND Apache-2.0 AND MIT	http://developer.and roid.com/index.html	Copyright 1994 Hewlett-Packard Company Copyright 1996,97 Silicon Graphics Computer Systems, Inc. Copyright 1997 Moscow Center for SPARC Technology.
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
system-media	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2011-2014 The Android Open Source Project

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system-vold	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2007-2008, 2010- 2013 The Android Open Source Project
tinyalsa	Android4.4	BSD-3-Clause	http://developer.and roid.com/index.html	Copyright 2011,2012 The Android Open Source Project
toolbox	Android4.4	BSD-2-Clause AND BSD-3-Clause	http://developer.and roid.com/index.html	Copyright (c) 1988- 1989,1991,1993, 1994 The Regents of the University of California. All rights reserved. Copyright (c) 2008-2010, 2012- 2013 The Android Open Source Project All rights reserved. Copyright (c) 1998-1999 Robert Nordier All rights reserved. Copyright (c) 1999 James Howard and Dag- Erling Copyright (C) 2008-2010 Gabor Kovesdan <gabor@freebs d.org=""> All rights reserved. Copyright (C) 2010 Dimitry Andric <dimitry@andric.< td=""></dimitry@andric.<></gabor@freebs>

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				com> All rights
tremolo	0.07	BSD-3-Clause	http://developer.and roid.com/index.html	reserved.  Copyright (C) 2002-2009, Xiph.org Foundation Copyright (C) 2010, Robin Watts for Pinknoise Productions Ltd All rights reserved.
u-boot15	2015.07- gd46d0cf	GPL-2.0-or-later	http://developer.and roid.com/index.html	(C) Copyright 2000 – 2013 Wolfgang Denk, DENX Software Engineering, wd@denx.de.
ueventd	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2010 The Android Open Source Project
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.>
watchdogd	Android4.4	Apache-2.0	http://developer.and roid.com/index.html	Copyright (C) 2012 The Android Open Source Project

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webrtc	Android4.4	BSD-3-Clause AND BSL-1.0 AND MIT	http://developer.and roid.com/index.html	Copyright (c) 2011 The Chromium Authors. All rights reserved. Copyright (c) 2011 The WebRTC project authors. All Rights Reserved.
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

## 3.5. Supplier : Neusoft

	Supplier:Neusoft					
Component	Versi	Lice	Home Page	Copyright		
	on	nse				
Attr	2.4.4	GNU	http://savannah.nongnu.org/proje	http://savannah.nongnu.org/projects/attr		
	7	Less	cts/attr			
		er				
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		v2.1				
		or				
		later				

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

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gkernel - rng- tools	5	Publi c Lice nse v2 or later GNU Gen eral Publi c Lice nse	http://sourceforge.net/projects/gk ernel/	http://sourceforge.net/projects/gkernel/
		v2.0 or later		
Glib	2.46.	GNU Libra ry Gen eral Publi c Lice nse v2 or later	https://developer.gnome.org/glib/	https://developer.gnome.org/glib/
GMP - GNU Multiple Precision Arithmetic Library	6.0.0 a	GNU Gen eral Publi c Lice nse v2.0 or later	http://gmplib.org/	http://gmplib.org/
GNOME Network Manager	1.0.1	GNU Gen eral Publi c Lice nse	http://www.gnome.org/projects/N etworkManager/	http://www.gnome.org/projects/NetworkMa nager/

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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/libc.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/gettext/	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	GNU Less er Gen eral Publi c	http://savannah.gnu.org/projects/gnutls/	http://savannah.gnu.org/projects/gnutls/

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

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		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/ShiftMediaProject/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
Iperf	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 nse	http://www.isc.org/software/dhcp/	http://www.isc.org/software/dhcp/
iw-ct	3.14	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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		sed"		
		Lice		
		nse		
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/
		Lice		
		nse		
libgcrypt	Unsp	GNU	http://www.gnupg.org	http://www.gnupg.org
<b>.</b>	ecifie	Less		
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		eral		
		Publi		
		С		
		Lice		
		nse		
		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		
		Lice		
		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	10.00	100 100 100 100 100 100 100 100 100 100
libgudev	230	GNU	https://wiki.gnome.org/Projects/li	https://wiki.gnome.org/Projects/libgudev
		Libra	bgudev	
		ry		
		Gen		
		eral		
		Publi		
		C		
		Lice		
		nse		
		v2 or		
libmnl	Unsp	later	http://www.netfilter.org/projects/li	http://www.netfilter.org/projects/libmnl/
IIDITITII	ecifie	GNU Less	bmnl/	nttp://www.nettiiter.org/projects/iibmni/
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libmount	Unsp ecifie d	v2.1 or later GNU Less er Gen eral Publi c	https://github.com/karelzak/util- linux/tree/master/libmount	https://github.com/karelzak/util- linux/tree/master/libmount
		Lice nse v2.1 or later		
libndp	libnd p_tes t1	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://libndp.org/	http://libndp.org/
libnftnl	Unsp ecifie d	GNU Gen eral Publi c Lice nse v2.0 or later	http://www.netfilter.org/projects/li bnftnl/	http://www.netfilter.org/projects/libnftnl/
libnl - Netlink Library	3.2.2	GNU Less er Gen eral Publi c	http://www.infradead.org/~tgr/libn  /	http://www.infradead.org/~tgr/libnl/

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libnl - Netlink Library	1.1	Lice nse v2.1 or later GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://www.infradead.org/~tgr/libn l/	http://www.infradead.org/~tgr/libnl/
liboil	0.3.1	BSD 2- claus e "Sim plifie d" Lice nse	http://liboil.freedesktop.org/wiki/	http://liboil.freedesktop.org/wiki/
libsmartcols	Unsp ecifie d	GNU Less er Gen eral Publi c Lice nse v2.1 or later	https://github.com/karelzak/util- linux/tree/master/libsmartcols	https://github.com/karelzak/util- linux/tree/master/libsmartcols
libsocketcan	0.0.1	GNU Less er Gen eral Publi	http://www.pengutronix.de/softwa re/libsocketcan/download/	http://www.pengutronix.de/software/libsock etcan/download/

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Libtasn1	3.2	c Lice nse v2.1 or later GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://www.gnu.org/software/libtasn1/	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	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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libuuid	Unsp ecifie d	BSD 3- claus e "New " or "Revi sed" Lice nse	https://github.com/karelzak/util- linux/tree/master/libuuid	https://github.com/karelzak/util- linux/tree/master/libuuid
libvehiclenetwo	Unsp	Rob		
rk	ecifie	ert		
	d	Bosc		
		h		
		Prop		
		rietar		
		У		
libxml2	2.9.4	MIT	http://xmlsoft.org/	http://xmlsoft.org/
		Lice		
lib =in	1.0.1	nse BSD	http://www.pib.at/libain/	http://www.pib.ot/libaip/
libzip	1.0.1	3-	http://www.nih.at/libzip/	http://www.nih.at/libzip/
		claus		
		e		
		"New		
		" or		
		"Revi		
		sed"		
		Lice		
		nse		
Logging	1.1.2	Apac	http://sourceforge.net/projects/lo	http://sourceforge.net/projects/log4cplus/
Framework for		he	g4cplus/	
C++		Lice		
		nse		
		2.0		
Logging	1.1.2	Apac	http://sourceforge.net/projects/lo	http://sourceforge.net/projects/log4cplus/
Framework for		he	g4cplus/	
C++		Lice		
		nse 2.0		
Logrotate	3.9.1	GNU	https://fedorahosted.org/logrotate	https://fedorahosted.org/logrotate/
Utility	3.3.1	Gen	/ / //redoranosted.org/logrotate	intps://ieuoranosteu.org/logrotate/
Cully		eral	<b>'</b>	
		Publi		
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Irzsz	0.12.	c Lice nse v2.0 or later 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/lrzsz.html
Itmain.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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ncurses	5.9	Lice nse v2.0 or later X11 Lice	https://www.gnu.org/software/nc urses/ncurses.html	https://www.gnu.org/software/ncurses/ncurses.html
Nettle	2.7.1	nse GNU Less er Gen eral Publi c Lice nse v2.1 or	http://www.lysator.liu.se/~nisse/n ettle/	http://www.lysator.liu.se/~nisse/nettle/
NYS_Library	Unsp ecifie d	later GNU Libra ry Gen eral Publi c Lice nse v2 or later	https://github.com/stevenylai/rali nk_sdk/blob/master/source/user/ ebtables-v2.0.9-2/getethertype.c	https://github.com/stevenylai/ralink_sdk/blob/master/source/user/ebtables-v2.0.9-2/getethertype.c
OpenSSH	7.1p2	BSD 2- claus e "Sim plifie d" Lice nse	http://www.openssh.com/portabl e.html	http://www.openssh.com/portable.html
OpenSSL	1.0.2 e	Ope nSS L Com	http://www.openssl.org/	http://www.openssl.org/

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opkg	0.3.0	bine d Lice nse 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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siphash	Unsp ecifie d	sed" Lice nse Publi c Dom	http://github.com/dchest/siphash/	http://github.com/dchest/siphash/
smhasher	3090 200	ain 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/systemd/
Tiny Asynchronous DNS lookup	Unsp ecifie d	Beer ware Lice	http://sourceforge.net/projects/ad ns/	http://sourceforge.net/projects/adns/
library TLSF	1.9	nse Publi c	http://tlsf.baisoku.org	http://tlsf.baisoku.org

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

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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/Jean_Tourrilhes/Linux/Tools.html	http://www.hpl.hp.com/personal/Jean_Tourr ilhes/Linux/Tools.html

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

# 3.6. Supplier: Nuance

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

<b>возсн</b>	OSS Attribution Document	DATE
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# 3.7.Supplier : OMRON

Supplier: OMRON					
Component	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	Home Page	Copyright
		е		
action	0.1.1	Apache	http://repo1.maven.	http://repo1.maven.
		License	org/maven2/com/nin	org/maven2/com/nin
		2.0	g/metrics.action/	g/metrics.action/
Android -	2.1_r1	Apache	http://developer.and	http://developer.and
platform -		License	roid.com/index.html	roid.com/index.html
dalvik		2.0		
Android -	4.0.1_r1	Apache	http://developer.and	http://developer.and
platform -		License	roid.com/index.html	roid.com/index.html
frameworks -		2.0		
base				
Android -	4.4_r1	Apache	http://developer.and	http://developer.and
platform -		License	roid.com/index.html	roid.com/index.html
prebuilts - sdk		2.0		
Android SDK	19	Apache	https://developer.an	https://developer.an
Support		License	droid.com/tools/sup port-	droid.com/tools/sup port-
Libraries		2.0	library/index.html	library/index.html
Android SDK	23.1.1	Apache	https://developer.an	https://developer.an
Support		License	droid.com/tools/sup port-	droid.com/tools/sup port-
Libraries		2.0	library/index.html	library/index.html
Drools ::	5.5.0.Fi	Apache	http://mirrors.ibiblio.	http://mirrors.ibiblio.
Scorecards	nal	License	org/maven2/org/drools/droolsscore	org/maven2/org/drools/droolsscore
		2.0	cards/	cards/
mongolduu	master-	Apache	http://github.com/tug	http://github.com/tug
	201211	License	stugi/mongolduu/	stugi/mongolduu/
	09	2.0		
Stan-for-	0.1.0	Apache	http://github.com/La bel305/Stan-	http://github.com/La bel305/Stan-
Android		License	forAndroid/	forAndroid/
		2.0		

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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	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_redundancy _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/fuse/	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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i		·		
		Public		
		License		
		v2.1 or		
		later		
Lawicel CAN	0.1.8	Lawicel	http://www.can232.com/?page_id	http://www.can232.com/?page_id=75
USB sample		CAN	=75	
code		USB		
		sample		
		code		
		license		
libdivsufsort	2.0.0	MIT	http://code.google.com/p/libdivsuf	http://code.google.com/p/libdivsufsort/
		License	sort/	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
lz4	94	BSD 2-	http://code.google.com/p/lz4/	http://code.google.com/p/lz4/
		clause		
		"Simplifi		
		ed"		
		License		
LZO real-time	2.04	Acquire	http://www.oberhumer.com/opens	http://www.oberhumer.com/opensource
data	2.04	d	ource/lzo/	/Izo/
compression		commer	04100/120/	71207
library		cial		
library		license		
MSDN	vs.85	Microsof	http://msdn.microsoft.com/en-	http://msdn.microsoft.com/en-
Sample Code	V3.03	t Limited	US/windows/	US/windows/
Jample Code		Public	O S/ WITHOWS/	03/Willdows/
		License		
		(Ms-		
		LPL)		
NetBSD	6	BSD 3-	http://www.netbsd.org/	http://www.netbsd.org/
MEIDSD	0	clause	Tittp://www.netbsu.org/	Tittp://www.fietbsu.org/
		"New" or		
		"Revise		
		d"		
		<b>u</b>		
UCL Data	1.03	License	http://www.abarb.com	http://www.chorburg.com/com/com/com/com/com/com/com/com/com/
	1.03	Acquire d	http://www.oberhumer.com/opens	http://www.oberhumer.com/opensource
Compression		<u> </u>	ource/ucl/	/ucl/
Library		commer		
		cial		
VAALE L.:		license		
XMLFoundatio	Apr-	MIT	http://xmlfoundation.codeplex.co	http://xmlfoundation.codeplex.com/
n	14	License	m/	
zlib	1.2.3	zlib	http://www.zlib.net	http://www.zlib.net
		License		

	OSS Attribution Document	DATE
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# 3.10.Supplier : SK\_telecom

		Su	pplier: 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/gpclib/	(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	NÃ
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
110	Android SDK Support	00.4.4	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 -			Apache License 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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13	Open BSD	4.5	http://www.openbsd.org	"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
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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

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Sl.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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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&gt;</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&gt;</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&gt;</sindresorhus@gmail 
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25	is-online	7.0.0	MIT License	Copyright (c): Sindre Sorhus <sindresorhus@gmail .com&gt;</sindresorhus@gmail 
26	json-rpc2	1.0.2	MIT License	Copyright (c): 2009 Eric Florenzano, Ryan Tomayko
27	Iodash	4.17.15	MIT License	Copyright (c): JS Foundation
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34	xml2js	0.4.23		MIT License	Copyright (c): 2010, 2011, 2012, 2013. All rights reserved.
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39	eventemitter2	1.0.0		MIT License	Copyright (c): 2016 Paolo Fragomeni
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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	C++ Wrapper for SQLite		3.2	CPOL 1.02	Copyright (c): 20042007 Rob Groves. All Rights Reserved. rob.groves@btinternet .com
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49	Blink		LGPL 2.1	Copyright (c): 2014 The Chromium Authors.
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68	googletest	release-1.7.0		BSD 3 License	Copyright (c): 2008, Google Inc.
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77	libevent	1.4.15-stable		BSD 3 License	Copyright (c): 2007- 2010 Niels Provos and Nick Mathewson
78	dist-llvm	master_2010-04-15		University of Illinois/NCS A Open Source License	Copyright (c): 2003- 2015 University of Illinois at Urbana- Champaign
79	libjpeg-turbo	1.4.90		Custom License (IJG license), BSD 3 License, Zlib License	https://obigo.com/
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81	libpng	1.6.22beta03		lib png License	Copyright (c): 2000- 2002, 2004, 2006- 2016 Glenn Randers- Pehrson
82	libsrtp	1.5.2		BSD 3 License	Copyright (c) 2001- 2006 Cisco Systems, Inc.
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84	libwebm	1.0.0.27		BSD 3 License	Copyright (c) 2010, Google Inc. All rights reserved
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89	libyuv	1.0.0		BSD 3 License	Copyright (c) 2011 The LibYuv Project Authors.
90	linux_syscall_s upport			BSD 3 License	Copyright (c) 2005- 2011, Google Inc.
91	minigbm			BSD 3 License	Copyright (c) 2014 The Chromium OS Authors.
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95	native_client	master_2014-10-16		BSD 3 License	Copyright (c) 2008, Google Inc.
96	openh264	1.4.0		BSD 2 License	Copyright (c) 2013, Cisco Systems
97	opus	1.1.3		BSD 3 License	Copyright (c) 2001- 2011 Xiph.Org, Skype Limited, Octasic, Jean-Marc Valin, Timothy B. Terriberry, CSIRO, Gregory Maxwell, Mark Borgerding, Erik de Castro Lopo
98	ots	5.0.0		BSD 3 License	Copyright (c) 2009 The Chromium Authors.
99	ozone-wayland	45.0.2454.37		BSD 3 License	Copyright (c) 2013 Intel Corporation.
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103	re2		42401	BSD 3 License	Copyright (c) 2009 The RE2 Authors.
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110	SPIRV-Tools- spirv	1.1-rev1		MIT License	Copyright (c) 2015- 2016 The Khronos Group Inc.
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112	tcmalloc	master_2012-05-20		BSD 3 License	Copyright (c) 2005, Google Inc.
113	url_parse			BSD 3 license, MPL 1.1 License	Copyright (c) 2007, Google Inc.
114	usrsctp	0.9.3.0		BSD 2 License	Copyright (c) 2001, 2002 Cisco Systems, Inc, 2002-12 Randall R. Stewart, 2002-12 Michael Tuexen

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117	wayland- protocols		MIT License	Copyright (c) 2008-2013 Kristian Høgsberg, Copyright (c) 2010-2013 Intel Corporation, Copyright (c) 2013 Rafael Antognolli, Copyright (c) 2013 Jasper St. Pierre, Copyright (c) 2014 Jonas Ådahl, Copyright (c) 2014 Jason Ekstrand, Copyright (c) 2014-2015 Collabora, Ltd., Copyright (c) 2015 Red Hat Inc.
118	WebGL	master_2015-01-08	MIT License	https://obigo.com/
119	webrtc-builds	9686	BSD 3 License	Copyright (c) 2011, The WebRTC project authors
120	woff2	a15a8ab86b934cf436f8fac4a8a1 1ddf8b59d792	MIT License	https://obigo.com/
121	zlib	1.2.8	Zlib License	Copyright (c)1995- 2010 Jean-loup Gailly and Mark Adler
122	boost	1.64.0	BSL 1.0 License	https://obigo.com/
123	libjson-c	0.10	MIT License	Copyright (c) 2007- 2010 Baptiste Lepilleur and The JsonCpp Authors
124	pkg-config- generator		MIT License	Copyright (c) 2016 Nii Mante
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131	babel-runtime	6.26.0		MIT License	Copyright (c): 2014- present Sebastian McKenzie and other contributors
132	core-js	2.5.1		MIT License	Copyright (c) 2014- 2020 Denis Pushkarev
133	css-loader	0.25.0		MIT License	Copyright (c) JS Foundation and other contributors
134	vue-loader	13.7.2		MIT License	Copyright (c) 2015- present Yuxi (Evan) You
135	Blackmagic DeckLink SDK 9.6.4	master_2012-10-10		BSL	Copyright (c) 2014 Blackmagic Design

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137	mosquitto	1.6.7	Eclipse Public License 1.0, Eclipse Distribution License 1.0	Copyright (c) 2010- 2014 Roger Light <roger@atchoo.org></roger@atchoo.org>
138	atob	2.1.2	MIT License , Apache 2.0 License	Copyright (c) 2015 AJ ONeal
139	cli-spinners	1.3.1	MIT License	Copyright (c) Sindre Sorhus <sindresorhus@gmail .com&gt; (https://sindresorhus.c om)</sindresorhus@gmail 
140	vue	i18n	MIT License	Copyright (c) 2016 kazuya kawaguchi
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143	webpack		MIT License	Copyright (c) JS Foundation and other contributors
144	cli-table- redemption	1.0.1	MIT License	Copyright (c) 2011- 2017 Automattic, 2017 Keymetrics
145	СО	4.6.0	MIT License	Copyright (c) 2014 TJ Holowaychuk <tj@vision- media.ca&gt;</tj@vision- 
146	commander	2.20.3	MIT License	Copyright (c) 2014 TJ Holowaychuk <tj@vision- media.ca&gt;</tj@vision- 
147	fs-extra	3.0.1	MIT License	Copyright (c) 2011- 2017 JP Richardson
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150	thunkify	2.1.2		MIT License	Copyright (c) 2018 TJ Holowaychuk
151	unzip	0.1.11		MIT License	Copyright (c) 2012 - 2013 Near Infinity Corporation
152	xmldom	0.1.31		MIT License	https://obigo.com/
153	xpath	0.0.24		MIT License	Copyright (c) 2018 Cameron McCormack
154	npm-cli-login	0.1.1		Apache 2.0 License	https://obigo.com/
155	ozone-wayland- 45.0.2454.376. 156 selenium- webdriver	master_2015-05-28		Apache 2.0 License	Copyright (c) 2007- 2009 Google Inc.
156	glog	0.3.4		BSD 3 License	Copyright (c) 2010 The Chromium Authors
157	freetype- freetype	2.6.1		FreeType License (FTL)	Copyright (c) 1996- 2015 by David Turner, Robert Wilhelm, and Werner Lemberg
158	jsoncpp	1.6.2		MIT License	Copyright (c) 2007- 2010 Baptiste Lepilleur
159	brackets		1.11	MIT License	Copyright (c) 2012 - present Adobe Systems Incorporated. All rights reserved.
160	bootstrap- toggle	2.2.2		MIT License	https://obigo.com/
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Copyright FAQ

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

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5. Under what terms are derivative works allowed?

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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.

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

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V3.0	03/08/2004	-Initial Version for sqlite3
V3.1	16/09/2004	-Implemented getXXXXField using sqlite3 functions
		-Added CppSQLiteDB3::tableExists()
V3.2	01/07/2005	-Fixed execScalar to handle a NULL result
	12/07/2007	-Added CppSQLiteDB::IsAutoCommitOn()
		-Added int64 functions to CppSQLite3Query
		-Added Name based parameter binding to CppSQLite3Statement.
V3.3	02/14/2019	
		-Added CppSQLite3Statement(sqlite3* pDB,sqlite3_stmt* pVM);
		CppSQLite3Statement::bind(int nParam, const sqlite_int64 nValue);
		CppSQLite3Statement::bind(int nParam, const uint64_t nValue);
		CppSQLite3Statement::Step()
		CppSQLite3Statement::DoTransaction(const char *str)
		CppSQLite3Statement::BeginTransaction()
		CppSQLite3Statement::CommitTransaction()
		CppSQLite3Statement::RollbackTransaction()
		CppSQLite3DB::getDB()
		CppSQLite3DB::RestoreOrBackupDb() by OBIGO

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python

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	from				comp	atible?	(1)
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1.3 thru 1.	5.2 1.2		1995-	1999	CNI	RI	yes
1.6	1.5.2	20	00	CN	RI	no	
2.0	1.6	200	0	BeC	pen.c	om no	)
1.6.1	1.6	20	01	CN	RI	yes (	2)
2.1	2.0+1.6	.1 2	2001	Р	SF	no	
2.0.1	2.0+1.6	5.1	2001	F	PSF	yes	5
2.1.1	2.1+2.0	).1	2001	F	PSF	yes	5
2.1.2	2.1.1	20	02	PS	F	yes	
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# Modified files

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

- gen.py Fix coroutines in cython-compiled code

- gen\_test.py Add a complier directive to get gen\_test (mostly) working when cythonized

- options.py Work around cython incompatiblities in options.py

- options\_test.py Work around cython incompatiblities in options.py

- util.py Make ArgReplacer compatible with cython.

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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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Glenn Randers-Pehrson glennrp at users.sourceforge.net May 26, 2016

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

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

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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root function must still compute square roots.)

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

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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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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.

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0.9.0 thru	1.2	1991-	1995 CWI	yes	;
1.3 thru 1.	5.2 1.2	1995	-1999 CN	IRI y	es
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	
2.0.1	2.0+1.6	6.1 2001	PSF	yes	
2.1.1	2.1+2.0	0.1 2001	PSF	yes	
2.1.2	2.1.1	2002	PSF	yes	
2.1.3	2.1.2	2002	PSF	yes	
2.2 and ab	ove 2.1	1.1 20	01-now F	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.

- 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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### DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.

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

REFERENCES Where to learn more about JPEG.

ARCHIVE LOCATIONS Where to find newer versions of this software.

FILE FORMAT WARS Software \*not\* to get.

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TO DO Plans for future IJG releases.

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**

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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**

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

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

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

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

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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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