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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.

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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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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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- 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.

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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.

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

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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.

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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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.

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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.

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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.


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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.

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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.


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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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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.

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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.

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

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

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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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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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20.	glib2.0	2.58.32	<p>LGPL-2.1-ONLY <u>Other licenses:</u> BSD-3-Clause LGPL-2.0-ONLY MIT Public Domain GPL-2.0-ONLY bzip2-1.0.6 GPL V2 or later with autoconf exception</p>	<p>Copyright © 2016 Red Hat, Inc. Copyright © 2015 Patrick Griffis Copyright © 2015 Collabora, Ltd. Copyright © 2015 Canonical Limited Copyright © 2014 NICE s.r.l. Copyright © 2014 Canonical Limited Copyright © 2013 Lars Uebernickel Copyright © 2013 Canonical Limited Copyright © 2012,2013 Colin Walters Copyright © 2011 William Hua Copyright © 2011 Ryan Lortie Copyright © 2010 Codethink Limited Copyright © 2010 Christian Persch Copyright © 2009-10 Sam Thursfield Copyright © 2009 Free Software Foundation, Inc. Lauri 2002-2004, Sami Pesonen 2004-2005. Ilkka Tuohela 2005-2009. Timo Jyrinki 2008-2010. Harri Pitkänen 2009. Tommi Vainikainen 20092011. Copyright 2017 Руслан Ижбулатов Copyright 2016 Endless Mobile, Inc. Copyright 2005 Matthias Clasen Copyright 2004 Tor Lillqvist Copyright 2001 Hans Breuer Copyright 1999-2000 Tor Lillqvist and Craig Setera Copyright 1998-2011 Tim Janik, Red Hat, Inc. and others Copyright 1998-2001 Sebastian Wilhelmi; University of Karlsruhe</p>
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22.	Grepgplv2	1:2.5.1a0co6	GPL-2.0-ONLY <u>Other licenses:</u> LGPL-2.0-ONLY NTP GPL V2 or later with autoconf exception	Copyright 2000, 2001 Free Software Foundation, Inc.

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23.	gstreamer 1.0	1.14.41co1+ap ertispro0 bv2021.0 b1	LGPL-2.0-ONLY <u>Other licenses:</u> GPL-2.0-ONLY GPL-2.0-with-autoconf- exception FSF LGPL-2.1-ONLY	Dual license – GPL-2.0-ONLY & LGPL-2.1-ONLY gstreamer1.0/po/rw.po Copyright © 2016 Free Software Foundation, Inc. Clytie Siddall 2005-2010. Trần Ngọc Quân;, 2012-2014, 2015, 2016, 2017. Copyright © 2014 Free Software Foundation, Inc. Danilo Segan 2004-2005. Мирослав Николић;, 2011 — 2017. Copyright 2009 Johan Dahlin Copyright 2007-2009 Nokia Corporation Copyright 2007-2009 Collabora Ltd Copyright © 2014 Sebastian Dröge Copyright © 2011 Daniel Richard G. Copyright © 2008 Steven G. Johnson Copyright © 2007 Guido U. Draheim Copyright © 2018 Gstreamer developers Copyright © 2015 Tim-Philipp Müller Copyright © 2014 Mathieu Duponchelle Copyright © 2014 Samsung Electronics. Copyright © 2014 David Waring, British Broadcasting Corporation Copyright © 2012-2015 Pexip Copyright © 2012 Stefan Sauer Copyright © 2009 Wim Taymans Copyright © 2009 Igalia S.L Copyright © 2009 Edward Hervey
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25.	icu	63.1-6+deb10u2+apertispro1bv2021.0b1	ICU License Unicode-TOU <u>Other licenses:</u> BSD-3-Clause NTP Public Domain GPL V2 or later with autoconf exception	1995-2013 International Business Machines Corporation and others 1991-2008 Unicode, Inc Copyright 1991 by the Massachusetts Institute of Technology
26.	init-systemhelpers	1.56+nm u1co1+apertispro0bv2021.0b1	BSD-3-Clause <u>Other licenses:</u> GPL-2.0-ONLY	2001 Henrique de Moraes Holschuh Copyright © 2013 Michael Stapelberg Copyright © 2008 Canonical Ltd. August 2008 – Dustin Kirkland Copyright © 2006 Red Hat, Inc. 1997-2005 Miquel van Smoorenburg

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27.	iptables	1.8.2-4co1+apertispro0bv2021.0b1	<p>GPL-2.0-ONLY</p> <p><u>Other licenses:</u></p> <p>GPL-2.0</p> <p>Artistic-2.0</p> <p>GPL V2 or later with autoconf exception</p> <p>GPL V3 or later with autoconf exception</p> <p>ISC</p> <p>FSFUL</p> <p>X11</p> <p>Public Domain</p> <p>LGPL-2.0-ONLY</p> <p>Artistic-1.0-Perl</p> <p>GPL-2.0 WITH Linux-syscall-note</p> <p>GPL V2 or later with libtool exception</p>	<p>2014 Giuseppe Longo; License: GPL2+ 2013, Patrick McHardy</p> <p>2013, Google, Inc. License: GPL-2</p> <p>2012, Hans Schillstrom 2012, Pablo Neira Ayuso License: GPL-2</p> <p>2012 Pablo Neira Ayuso License: GPL2+ 2011, Patrick McHardy; License: GPL-2</p> <p>2011, Jan Engelhardt License: GPL-2</p> <p>2008, Adam Nielsen License: GPL-2</p> <p>2008 Peter Warasin License: GPL-2</p> <p>2007, BalaBit IT Ltd. License: GPL-2</p> <p>2006-2013, Patrick McHardy License: GPL-2</p> <p>2006, Ufo Mechanic License: GPL-2</p> <p>2006, USAGI/WIDE Project License: GPL-2</p> <p>2003+, Evgeniy Polyakov License: GPL2</p> <p>2003 Tom Marshall License: GPL-2</p> <p>2000-2002, Joakim Axelsson Patrick Schaaf Martin Josefsson 2003-2010, Jozsef Kadlecsek License: GPL-2</p> <p>2000-2002, Harald Welte License: GPL-2</p> <p>2000, Marc Boucher License: GPL-2</p> <p>Copyright © Jan Engelhardt, 2011</p> <p>Copyright © CC Computer Consultants GmbH,</p> <p>Copyright (c) 2011 Patrick McHardy</p> <p>Copyright (c) 2003+ Evgeniy Polyakov</p> <p>Copyright (c) 2000-2001 Netfilter Core Team. Copyright (c) 2000 Marc Boucher</p> <p>Copyright (C)2006 USAGI/WIDE Project</p> <p>Copyright (C) 1996-2014 Free Software Foundation, Inc.</p>
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31.	libffi	3.2.1-9co1+apertispro0bv2021.0b2	MIT <u>Other licenses:</u> GPL V2 or later with autoconf exception Public Domain GPL-2.0-ONLY GPL V3 or later with autoconf exception GPL V2 or later with libtool exception X11 LGPL-2.1-ONLY GPL V3 or later with Tex exception FSFUL	Dual license - GPL-2.0-ONLY or LGPL-2.1-ONLY libffi/msvcc.sh Copyright @copyright{} 2008, 2010, 2011 Red Hat, Inc. Copyright 1992-2013 Free Software Foundation, Inc. Copyright (c) 2014 Sebastian Macke Copyright (c) 2014 Anthony Green Copyright (c) 2013 The Written Word Inc. Copyright (c) 2013 Tensilica, Inc. Target configuration macros for XTENSA. Copyright (c) 2013 Synopsys, Inc. (www.synopsys.com) Copyright (c) 2013 Miodrag Vallat. Copyright (c) 2013 Mentor Graphics. Copyright (c) 2012, 2013 Xilinx, Inc Copyright (c) 2012 Tiler Corp. Copyright (c) 2012 Thorsten Glaser Copyright (c) 2012 Alexandre K. I. Copyright (c) 2012 Alan Hourihane Copyright (c) 2011 Timothy Wall Copyright (c) 2011 Plausible Labs Cooperative, Inc. Copyright (c) 2011 Maarten Bosmans Copyright (c) 2010 Rhys Ulerich Copyright (c) 2010 CodeSourcery Copyright (c) 2009, 2010, 2011, 2012 ARM Ltd. Copyright (c) 2009 Guido U. Draheim Copyright (c) 2009 Daniel Witte Copyright (c) 2009 Bradley Smith Copyright (c) 2008 Steven G. Johnson Copyright (c) 2008 Guido U. Draheim
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32.	libcrypt20	1.8.4-5+deb10u1+apertispro0b v2021.0b1	<p>LGPL-2.1-ONLY</p> <p><u>Other licenses:</u></p> <p>FSF</p> <p>GPL-2.0-ONLY</p> <p>GPL V2 or later with autoconf exception</p> <p>X11</p> <p>BSD-3-Clause</p> <p>Public Domain</p> <p>LGPL-2.0-ONLY</p> <p>ISC</p> <p>GPL V3 or later with autoconf exception</p> <p>GPL V3 or later with Tex exception</p> <p>GPL V2 or later with libtool exception</p>	<p>Dual License - BSD - 3 Clause or GPL v2</p> <p>libcrypt20/random/jitterentropy-base.c</p> <p>Copyright (C) 2004, 2005, 2007, 2009 Free Software Foundation, Inc. Written by Scott James Remnant, 2004.</p> <p>copyright Peter Gutmann (and various others) 1996, 1997, 1998, 1999.</p> <p>Copyright 2013 g10 Code GmbH</p> <p>Copyright Stephan Mueller 2014 – 2017</p> <p>Copyright 2012 Simon Josefsson and Niels Möller</p> <p>Copyright 2012, Samuel Neves</p> <p>Copyright 1998 Owen Taylor, modified for libcrypt and gnutils by Ivo Timmermans, 2001. Copyright 1997, 1998, 1999, 2001 Werner Koch</p> <p>Copyright (C) 2017 Jussi Kivilinna</p> <p>Copyright (C) 2017 Bundesamt für Sicherheit in der Informationstechnik</p> <p>Copyright (C) 2016 Jussi Kivilinna</p> <p>Copyright (C) 2013-2014 Dmitry Eremin-Solenikov</p> <p>Copyright (C) 2013 Christian Grothoff</p> <p>Copyright (C) 2003 Nikos Mavroyanopoulos</p> <p>Copyright (C) 1998 The Internet Society</p> <p>Copyright (C) 1997 Werner Koch</p> <p>Copyright (C) 1994 X Consortium</p>
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33.	libpgerror	1.35-1co1+ap ertispro0 bv2021.0 b1	LGPL-2.1-ONLY <u>Other licenses:</u> FSF GPL v2 or later with mkerrcodes.awk exception GPL V2 or later with autoconf exception Public Domain GPL-2.0-ONLY GPL V3 or later with autoconf exception LGPL-2.1 BSD-3-Clause X11 LGPL-2.0-ONLY GPL V3 or later with Tex exception GPL V2 or later with libtool exception	Copyright (C) 1994-2014 Free Software Foundation, Inc. Copyright (C) 2018 g10 Code GmbH Copyright (C) 2014 Jedi Lin Copyright (c) 2010 Reuben Thomas Copyright (C) 2004 Simon Josefsson Copyright (c) 1999 Richard Henderson Copyright (C) 1998-2006, 2008-2017 Werner Koch Copyright (C) 1994 X Consortium
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35.	libseccomp	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+apertispro0bv2021.0b1	BSD-3-Clause <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	(c) 2004-2007 Sara Golemon <sarag@libssh2.org> (c) 2005,2006 Mikhail Gusarov <dottedmag@dottedmag.net> (c) 2006-2007 The Written Word, Inc. (c) 2007 Eli Fant <elifantu@mail.ru> (c) 2009 Daniel Stenberg (C) 2008, 2009 Simon Josefsson
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41.	libxdmcp	1:1.1.23co1+ap ertispro0 bv2021.0 b1	MIT-open-group <u>Other</u> <u>licenses:</u> X11 Public Domain GPL V2 or later with libtool exception GPL V2 or later with autoconf exception GPL V3 or later with autoconf exception	Copyright 1989, 1998 The Open Group Copyright (C) 1994 X Consortium

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46.	openssl	1.1.1d+fromdebian-0+deb10u7+apertis1+apertispro0b v2021.0b3	OpenSSL <u>Other licenses:</u> Cryptogams Public Domain GPL-2.0-ONLY BSD-2-Clause Apache-2.0 LGPL-2.1-ONLY	Dual License - OpenSSL & BSD-3-Clause openssl/crypto/x509v3/v3_pcia.c openssl/crypto/x509v3/v3_pci.c Dual License - OpenSSL & Cryptogams openssl/crypto/aes/asm openssl/crypto/bn/asm openssl/crypto/chacha/asm/* openssl/crypto/ec/asm openssl/crypto/md5/asm/md5-sparcv9.pl openssl/crypto/modes/asm/* openssl/crypto/poly1305/asm/* openssl/crypto/rc4/asm/* openssl/crypto/sha/asm openssl/engines/asm Dual License - OpenSSL & BSD-2-Clause openssl/crypto/aes/asm/aest4-sparcv9.pl openssl/crypto/des openssl/crypto/LPdir_unix.c Copyright 2018-2019 The OpenSSL Project Authors. All Rights Reserved. Copyright 2017 Ribose Inc. Copyright 2017 BaishanCloud. Copyright 2016 VMS Software, Inc. Copyright 2016 Cryptography Research, Inc. Copyright 2013 Mark

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48.	pcre3	2:8.3912co2+a pertispro0bv2021.0b1	BSD-3-Clause <u>Other licenses:</u> GPL V2 or later with autoconf exception GPL V3 or later with autoconf exception BSD-2-Clause X11 Public Domain GPL V2 or later with libtool exception	Copyright(c) 2009-2016 Zoltan Herczeg All rights reserved. Copyright © 2012-2015 Dan Nicholson Copyright © 2004 Scott James Remnant Copyright 2013-2013 Tlera Corporation(jiawang@tilera.com). All rights reserved. Copyright 2009-2012 Zoltan Herczeg Copyright 2003 and onwards Google Inc. Author: Sanjay Ghemawat Copyright 1992-2015 Free Software Foundation,

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49.	sed-gplv2	4.1.2-8co6+apertispro0bv2021.0 b1	<p>GPL-2.0-ONLY <u>Other licenses:</u> 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</p>	<p>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</p>
50.	systemd	2417~deb10u8+apertispro2bv2021.0b2	<p>LGPL-2.1-ONLY <u>Other licenses:</u> GPL-2.0-ONLY MIT Public Domain GPL-2.0 CC0-1.0 The Unlicense LGPL-2.0-ONLY</p>	<p>Dual License - GPL-2.0 WITH Linux-syscall-note & MIT systemd/src/shared/wireguard-netlink.h Dual License - BSD - 3 clause & GPL-2.0 systemd/hwdb/pci.ids © 2015 Canonical Ltd. Author: Martin Pitt Copyright © SUSE Linux Products GmbH, 2006</p>

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51.	sysvinit	2.93-8co1+apertispro0bv2021.0 b1	GPL-2.0-ONLY	<p>Copyright on this file 1998 Danek Duvall. Copyright (c) 2011 SuSE LINUX Products GmbH, All rights reserved. Copyright (c) 2006 Red Hat, Inc. All rights reserved. Copyright (C) 2018 Jesse Smith Copyright (C) 2005 Miquel van Smoorenburg.</p>

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52.	tar-gplv2	1.17-0co9+ap ertispro0 bv2021.0 b1	GPL-2.0-ONLY <u>Other licenses:</u> Public Domain GPL-1.0-ONLY X11 LGPL-2.1-ONLY GPL V2 or later with bison exception GPL-2.0-with-autoconf-exception GPL V2 or later with texinfo exception GPL V2 or later with autoconf exception	Copyright © 2004 Free Software Foundation, Inc. Copyright (C) 1994 X Consortium Copyright (C) 1983 Regents of the University of California. (C) Copyright 2013 Bdale Garbee
53.	util-linux	2.33.10.1co2+a pertspro 0bv2021. 0b3	GPL-2.0-ONLY <u>Other licenses:</u> LGPL-2.1-ONLY BSD-3-Clause BSD-4-Clause-UC Public Domain MIT FSF LGPL-2.0-ONLY GPL-1.0-ONLY ISC X11 GPL v3 or later with Bison exception GPL V2 or later with libtool exception GPL V2 or later with autoconf exception GPL V3 or later with autoconf exception	Copyright © Michael Piefel 2002, 2004, 2005, 2007, 2008. Copyright © Karel Zak copyright is claimed. This code is in the Public Domain; do with it what you wish. Copyright © 2015 Free Software Foundation, Inc Copyright © 2014 Benjamin Weis Mario Blättermann;, 2014, 2015. Philipp Thomas 2014, 2015, 2017. Copyright © 2012-2015 Dan Nicholson Copyright © 2012 Arun Persaud; Copyright © 2011,2015,2016 Philipp Thomas Copyright © 2004 Scott James Remnant Copyright © 2004 Nilgün Belma Bugüner. Copyright © 2002-2018 Lauri Nurmi Copyright © 2001, 2002 Karl Eichwalder. Copyright © 2000–2001 Gunnar Ritter.

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54.	xz-utils	5.2.4-1co1+apertispro0bv2021.0b1	<p>Public Domain</p> <p><u>Other licenses:</u></p> <p>GPL-2.0-ONLY</p> <p>LGPL-2.1-ONLY</p> <p>GPL V2 or later with libtool exception</p> <p>FSFUL</p> <p>GPL V2 or later with autoconf exception</p> <p>GPL V3 or later with autoconf exception MIT X11</p>	<p>© 2014, Google Inc.</p> <p>© 2008, Steven G. Johnson</p> <p>© 2003 Free Software Foundation, Inc. Authors: Bruno Haible</p> <p>© 1997-2007 by Dimitri van Heesch</p> <p>© 1993, Jean-loup Gailly</p> <p>2010, Marek Černocký 2010, Andre Noll 2011, Adrien Nader</p> <p>2009-2010, Lasse Collin</p> <p>2010, Daniel Mealha Cabrita</p> <p>2009, Andrew Dudman 2009, Lasse Collin</p> <p>2009, 2010, Gruppo traduzione italiano di Ubuntu-it 2010, Lorenzo De Liso 2009, 2010, 2011, Milo Casagrande 2011, Jakub Bogusz</p> <p>Copyright (C) Michael D. Brennan</p> <p>Copyright (C) 2006 Timo Lindfors</p> <p>Copyright (C) 2005 Philipp Benner</p> <p>Copyright (C) 2004-2017 Bootstrap Authors</p> <p>Copyright (C) 1998, 1999, 2001 Henry Spencer.</p> <p>Copyright (C) 1994 X Consortium</p> <p>Copyright (C) 1993 Jean-loup Gailly</p>
55.	yajl	2.1.0-3co1+apertispro0bv2021.0b1	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) 2003,2005,2006,2007,2008,2009 Google Inc.All Rights Reserved
HarfBuzz	1.7.4	MIT License	http://harfbuzz.org/	Copyright © 2004,2007,2008,2009,2010 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 Hacoheh
lua	5.3.4	Lua 5.0 License	http://www.lua.org/	Copyright (C) 1994-2017 Lua.org, PUC-Rio
Mediancut	Unspecified	Creative Commons CC0 1.0 Universal	http://en.literateprograms.org/Median_cut_algorithm_(C_Plus_Plus)?oldid=19175	Copyright (C) Socionext Embedded Software Austria GmbH (SESA)

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RBTree.cpp	Unspecified	Public Domain	https://github.com/anandarao/Red-Black-Tree/blob/master/RBTree.cpp	Copyright (C) Candra GmbH
BidiReferencecpp	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	Unspecified			

3.3.Supplier : Escript


Supplier : Escript				
Name of OSS Component	Version	License	Home Page	Copyrights
The ASN.1 Compiler	asn1c - 0.9.26	BSD (Two Clause License)		Copyright © 2003-2016 Lev Walkin <vlm@lionet.info> and contributors, Copyright © 2003, 2004 X/IO Labs, xiolabs.com
Base64_encode_decode_Stack overflow	2/16/2015	Creativecommons Attribution ShareAlike 3.0		© 2015 stack exchange inc
libcurl	7.22	Curl License		Copyright (c) 1996 - 2016, Daniel Stenberg, daniel@haxx.se.
libdbus	1.4.18	Academic Free License v2.1		Copyright (C) 2003-2004 Lawrence E. Rosen Copyright (C) 1989, 1991 Free Software Foundation, Inc.

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Supplier: LG Innotek				
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adb	1.0.31	BSD-3-Clause AND Apache-2.0	http://developer.android.com/index.html	Copyright (c) 1988 Regents of the University of California. * All rights reserved. Copyright (c) 2006-2009, 2012 The Android Open Source Project Copyright 2006, Brian Swetland <swetland@frotz.net>
android-clat	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright 2010-2012 Daniel Drown
applypatch	Android4.4	BSD-2-Clause AND Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2009 The Android Open Source Project
aprd	Android4.4	GPL-2.0-only	http://developer.android.com/index.html	
atrace	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2012 The Android Open Source Project
audioflinger	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (c) 2005-2009,2012 The Android Open Source Project
autotest	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2012,2014 The Android Open Source Project
bluedroid	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 1999-2012

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bugreport	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2009 The Android Open Source Project
busybox	1.17.1	GPL-2.0-only	http://developer.android.com/index.html	Copyright (C) 1998-2009 Erik Andersen, Rob Landley, Denys Vlasenko and others
common_time	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (c) 2005-2008,2011-2012 The Android Open Source Project
compress_simu	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2011 The Android Open Source Project
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custom_mmi	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2016 The Android Open Source Project Copyright (C) 2016 Spreadtrum Inc.
debuggerd	Android4.4	Apache-2.0	http://developer.android.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.android.com/index.html	Copyright (C) 1998-2004 WIDE

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				Project. All rights reserved.
dhcpcd	5.5.6	BSD-2-Clause AND BSD-3-Clause AND ISC AND Apache-2.0	http://developer.android.com/index.html	Copyright (c) 1990, 1993 The Regents of the University of California. All rights reserved. Copyright (c) 2006-2008 Roy Marples <roy@marples.name> All rights reserved Copyright 2006-2012 Roy Marples <roy@marples.name> All rights reserved Copyright (c) 2004,2007 by Internet Systems Consortium, Inc. ("ISC") Copyright (c) 1996-2003 by Internet Software Consortium Copyright 2011, The Android Open Source Project
dnsmasq	2.51	GPL-2.0-or-later	http://developer.android.com/index.html	Copyright (C) 2000-2009 Simon Kelley
drmserver	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (c) 2005-2008,2010 The Android Open Source Project
dumpdata	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2008 The

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dumpsys	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2005-2008 The Android Open Source Project
e2fsprogs	1.41.14	GPL-2.0-or-later AND LGPL-2.0-or-later AND BSD-3-Clause AND MIT	http://developer.android.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.ucalgary.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.android.com/index.html	Copyright (C) 2006,2007,2014 The Android Open Source Project Copyright (C) 2014 The CyanogenMod Project
filterfw	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2011 The Android Open Source Project

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framework-base-data	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2008 The Android Open Source Project copyright © 2007, Google Corporation. Regular Ascender - Droid Sans Version 1.00 copyright Google 2013 Google:Roboto: 2013 Roboto Regular Version 1.200310
framework-native-data	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2006-2013 The Android Open Source Project
freetype	2.4.2	FTL AND MIT	http://developer.android.com/index.html	Copyright 1996-2002, 2006 by David Turner, Robert Wilhelm, and Werner Lemberg Copyright (C) 2000, 2001, 2002 by Francesco Zappa Nardelli
gcc-demangle	4.6	GPL-2.0-or-later AND LGPL-2.0-or-later	http://developer.android.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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ge2_libgps	GPS_GLO GE2_W17.40 .5	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2010 The Android Open Source Project
harfbuzz_ng	0.9.14	MIT	http://developer.android.com/index.html	Copyright © 2008,2010 Nokia Corporation and/or its subsidiary(-ies) Copyright © 2009 Keith Stribley Copyright © 2009 Martin Hosken and SIL International Copyright © 2007 Chris Wilson Copyright © 2006 Behdad Esfahbod Copyright © 2005 David Turner Copyright © 2004,2007,2008, 2009,2010 Red Hat, Inc. Copyright © 1998-2004 David Turner and Werner Lemberg Copyright (C) 2012 Grigori

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ime	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (c) 2007, The Android Open Source Project
input	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (c) 2007, The Android Open Source Project
iosnoop.sh	Android4.4	GPL-2.0-or-later	http://developer.android.com/index.html	Copyright (c) 2014 Brendan Gregg.
iotat	Android4.4	Apache-2.0 AND GPL-2.0-only	http://developer.android.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.android.com/index.html	Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru> Copyright (C)2004,2006-2007 USAGI/WIDE Project
ipsec-tools (raccoon)	0.7.3	BSD-3-Clause	http://developer.android.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.andraoid.com/index.html	(C) 1999-2006 by the netfilter coreteam <coreteam@netfil ter.org>: Paul 'Rusty' Russell <rusty@rustcorp. com.au>

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iputils	s20121221	GPL-2.0-or-later AND BSD-4-Clause-UC	http://developer.asteroid.com/index.html	<p>copyright (c) 1989 The Regents of the University of California. All rights reserved. This code is derived from software contributed to Berkeley by Mike Muuss.</p> <p>Copyright (c) 1983, 1993 The Regents of the University of California. All rights reserved.</p> <p>Copyright (c) 1990, 1993 The Regents of the University of California. All rights reserved. This code is derived from software contributed to Berkeley by Van Jacobson.</p>

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

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				2013 The Android Open Source Project
keystore-engine	Android4.4	BSD-2-Clause	http://developer.android.com/index.html	Copyright 2012-2013 The Android Open Source Project
libandroid	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2009, 2010 The Android Open Source Project
libandroid_servers	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2006-2013 The Android Open Source Project
libandroidfw	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (c) 2005-2008,2010 The Android Open Source Project
libanroid_runtime	Android4.4	BSD-3-Clause AND Apache-2.0	http://developer.android.com/index.html	Copyright (c) 2011-2012 Google Inc. All rights reserved. Copyright 2011, The Android Open Source Project Copyright (C) 2005-2013 The Android Open Source Project
libbinder	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2005-2009,2013 The Android Open Source Project
libbt	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2009-2012 Broadcom Corporation
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				Broadcom Corporation
libc	Android4.4	BSD-3-Clause AND BSD-2-Clause	http://developer.android.com/index.html	Copyright (C) 2008-2009,2011-2013 The Android Open Source Project. All rights reserved. Copyright (c) 2010-2013, Linaro Limited All rights reserved.
libc	Android4.4	BSD-3-Clause AND BSD-4-Clause-UC	http://developer.android.com/index.html	Copyright (c) 2010, 2011 Intel Corporation
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ueventd	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2010 The Android Open Source Project
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zlib	1.2.8	Zlib	http://developer.android.com/index.html	(C) 1995-2013 Jean-loup Gailly and Mark Adler

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D-Bus	1.10.2	Academic Free License v2.1	http://www.freedesktop.org/wiki/IntroductionToDBus	http://www.freedesktop.org/wiki/IntroductionToDBus
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		v2.0 or later		
GNU C Library - glibc	Unspecified	GNU Lesser General Public License 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 General Public License v2.0 or later	http://www.gnu.org/software/gettext/	http://www.gnu.org/software/gettext/
GNU gettext	0.18.2	GNU Library General Public License v2 or later	http://savannah.gnu.org/projects/gettext/	http://savannah.gnu.org/projects/gettext/
GnuTLS	3.3.13	GNU Lesser General Public License	http://savannah.gnu.org/projects/gnutls/	http://savannah.gnu.org/projects/gnutls/

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		nse v2.1 or later		
googlemock	1.7.0	BSD 3- claus e "New " or "Revi sed" Lice nse	http://code.google.com/p/googlemock/	http://code.google.com/p/googlemock/
Gstreamer	0.10. 36	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_FUNCTION	Unsp ecifie d	MIT v2 with Ad Clau se Lice nse	https://github.com/ShiftMediaProject/libgcript/tree/master/cipher	https://github.com/ShiftMediaProject/libgcript/tree/master/cipher
imx_usb_loader	Unsp ecifie d	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://github.com/boundarydevices/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/lperf/	http://sourceforge.net/projects/lperf/
IPTables	1.4.2 1	GNU Gen	http://www.netfilter.org/	http://www.netfilter.org/

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		eral Publi c Lice nse v2.0 or later		
ISC DHCP	4.1.2	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/~dhowells/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.com/less/	http://www.greenwoodsoftware.com/less/
Lib Cap	2.24	BSD 3- claus e	http://sites.google.com/site/fullycapable/	http://sites.google.com/site/fullycapable/

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		"New" or "Revised" License		
libboost	Unspecified	Boost Software License 1.0		
libbtserviceapi	Unspecified	Unspecified		
libbtserviceapi	Unspecified	Robert Bosch Proprietary		
libtrace	Unspecified	Robert Bosch Proprietary		
libffi	3.2.1	Libffi License	http://sourceware.org/libffi/	http://sourceware.org/libffi/
libcrypt	Unspecified	GNU Lesser General Public License v2.1	http://www.gnupg.org	http://www.gnupg.org

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libgrypt_GPL	1.7.6	or later GNU Gen eral Publi c Lice nse v2.0 or later	https://github.com/ShiftMediaProject/libgrypt/tree/libgrypt-1.7.6	https://github.com/ShiftMediaProject/libgrypt/tree/libgrypt-1.7.6
Libpgp-error Lib	1.20	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://www.gnupg.org/	http://www.gnupg.org/
libgudev	230	GNU Libra ry Gen eral Publi c Lice nse v2 or later	https://wiki.gnome.org/Projects/libgudev	https://wiki.gnome.org/Projects/libgudev
libmnl	Unsp ecifie d	GNU Less er Gen eral Publi c Lice nse	http://www.netfilter.org/projects/libmnl/	http://www.netfilter.org/projects/libmnl/

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		v2.1 or later		
libmount	Unspecified	GNU Lesser General Public License v2.1 or later	https://github.com/karelzak/util-linux/tree/master/libmount	https://github.com/karelzak/util-linux/tree/master/libmount
libndp	libndp_test1	GNU Lesser General Public License v2.1 or later	http://libndp.org/	http://libndp.org/
libnftnl	Unspecified	GNU General Public License v2.0 or later	http://www.netfilter.org/projects/libnftnl/	http://www.netfilter.org/projects/libnftnl/
libnl - Netlink Library	3.2.25	GNU Lesser General Public License	http://www.infradead.org/~tgr/libnl/	http://www.infradead.org/~tgr/libnl/

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		Lic nse v2.1 or later		
libnl - Netlink Library	1.1	GNU Lesser General Public License v2.1 or later	http://www.infradead.org/~tgr/libnl/	http://www.infradead.org/~tgr/libnl/
liboil	0.3.16	BSD 2-clause "Simplified" License	http://liboil.freedesktop.org/wiki/	http://liboil.freedesktop.org/wiki/
libsmartcols	Unspecified	GNU Lesser General Public License v2.1 or later	https://github.com/karelzak/util-linux/tree/master/libsmartcols	https://github.com/karelzak/util-linux/tree/master/libsmartcols
libsocketcan	0.0.10	GNU Lesser General Public	http://www.pengutronix.de/software/libsocketcan/download/	http://www.pengutronix.de/software/libsocketcan/download/

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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/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 8	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://sourceforge.net/projects/libusb/	http://sourceforge.net/projects/libusb/

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libuuid	Unspecified	BSD 3-clause "New" or "Revised" License	https://github.com/karelzak/util-linux/tree/master/libuuid	https://github.com/karelzak/util-linux/tree/master/libuuid
libvehiclenetwork	Unspecified	Robert Bosch Proprietary		
libxml2	2.9.4	MIT License	http://xmlsoft.org/	http://xmlsoft.org/
libzip	1.0.1	BSD 3-clause "New" or "Revised" License	http://www.nih.at/libzip/	http://www.nih.at/libzip/
Logging Framework for C++	1.1.2	Apache License 2.0	http://sourceforge.net/projects/log4cplus/	http://sourceforge.net/projects/log4cplus/
Logging Framework for C++	1.1.2	Apache License 2.0	http://sourceforge.net/projects/log4cplus/	http://sourceforge.net/projects/log4cplus/
Logrotate Utility	3.9.1	GNU General Public	https://fedorahosted.org/logrotate/	https://fedorahosted.org/logrotate/

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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/lrzsz.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/luafilesystem/	http://github.com/keplerproject/luafilesystem/
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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		Licence v2.0 or later		
ncurses	5.9	X11 Licence	https://www.gnu.org/software/ncurses/ncurses.html	https://www.gnu.org/software/ncurses/ncurses.html
Nettle	2.7.1	GNU Lesser General Public Licence v2.1 or later	http://www.lysator.liu.se/~nisse/nettle/	http://www.lysator.liu.se/~nisse/nettle/
NYS_Library	Unspecified	GNU Library General Public Licence v2 or later	https://github.com/stevenylai/ralink_sdk/blob/master/source/user/eatables-v2.0.9-2/getethertype.c	https://github.com/stevenylai/ralink_sdk/blob/master/source/user/eatables-v2.0.9-2/getethertype.c
OpenSSH	7.1p2	BSD 2-clause "Simplified" Licence	http://www.openssh.com/portable.html	http://www.openssh.com/portable.html
OpenSSL	1.0.2e	OpenSSL Com	http://www.openssl.org/	http://www.openssl.org/

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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/cgit.cgi/opkg/	https://git.yoctoproject.org/cgit/cgit.cgi/opkg/
PCRE	8.32	PCR E 5 Lice nse	http://sourceforge.net/projects/pcpre/	http://sourceforge.net/projects/pcpre/
PCSC Lite	Unsp ecifie d	BSD 3- claus e "New " or "Revi sed" Lice nse	http://pcsc-lite.alioth.debian.org/	http://pcsc-lite.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.html	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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		Public License v2.0 or later		
protobuf	2.5.0	BSD 3-clause "New" or "Revised" License	http://code.google.com/p/protobuf/	http://code.google.com/p/protobuf/
ReadLine Front-End	Unspecified	GNU General Public License v2.0 or later	https://github.com/issue/readline/tree/master/examples/rfe	https://github.com/issue/readline/tree/master/examples/rfe
rsync	2.6.9	GNU General Public License v2.0 or later	http://samba.anu.edu.au/rsync/	http://samba.anu.edu.au/rsync/
S Trace	4.10	BSD 3-clause "New" or "Revised" License	http://sourceforge.net/projects/strace/	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/smhasher/	http://code.google.com/p/smhasher/
SQLite	3090 200	Publi c Dom ain	http://www.hwaci.com/sw/sqlite/index.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/squashfs-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/Software/systemd/	http://freedesktop.org/wiki/Software/systemd/
Tiny Asynchronous DNS lookup library	Unsp ecifie d	Beer ware Lice nse	http://sourceforge.net/projects/adns/	http://sourceforge.net/projects/adns/
TLSF	1.9	Publi c	http://tlsf.baisoku.org	http://tlsf.baisoku.org

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		Domain		
UBIFS	Unspecified	GNU General Public License v2.0 or later	http://www.linux-mtd.infradead.org/doc/ubifs.html	http://www.linux-mtd.infradead.org/doc/ubifs.html
uClibc - A C Library for Embedded Linux	0.9.30.3	GNU Lesser General Public License v2.1 or later	http://www.uclibc.org/	http://www.uclibc.org/
USB Utils	007	GNU General Public License v2.0 or later	https://www.kernel.org/pub/linux/utils/usb/usbutils/	https://www.kernel.org/pub/linux/utils/usb/usbutils/
USB-DFU	1.0	GNU General Public License v2.0 or later	http://www.usb.org/home	http://www.usb.org/home

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usbnet	Unspecified	GNU Lesser General Public License v2.1 or later	http://www.linux-usb.org/usbnet/	http://www.linux-usb.org/usbnet/
Util-Linux	2.27.1	GNU General Public License v2.0 or later	http://freshmeat.net/projects/util-linux/	http://freshmeat.net/projects/util-linux/
util-unix-ng	Unspecified	GNU General Public License v2.0 or later	http://userweb.kernel.org/~kzak/util-linux-ng/	http://userweb.kernel.org/~kzak/util-linux-ng/
Wide_Project	Unspecified	BSD 3-clause "New" or "Revised" License	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_Tourrilhes/Linux/Tools.html

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		eral Publi c Lice nse v2.0 or later		
wpa_supplicant - IEEE 802.1X, WPA, WPA2, RSN, IEEE 802.11i	2.5	BSD 3-clause "New" or "Revised" License	http://hostap.epitest.fi/wpa_supplicant/	http://hostap.epitest.fi/wpa_supplicant/
XZ Utils	5.0.4	Public Domain	http://tukaani.org/xz/	http://tukaani.org/xz/
yajl	Unspecified	ISC License	http://github.com/lloyd/yajl/	http://github.com/lloyd/yajl/
yajl	2.1.0	ISC License	http://github.com/lloyd/yajl/	http://github.com/lloyd/yajl/
zlib	1.2.8, 1.1.3	zlib License	http://www.zlib.net	http://www.zlib.net

3.6. Supplier: Nuance

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

 BOSCH	OSS Attribution Document	DATE
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3.7. Supplier : OMRON

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

3.8. Supplier : Redbend_SWM

Supplier: Redbend_SWM				
Component	Version	License	Home Page	Copyright
action	0.1.1	Apache License 2.0	http://repo1.maven.org/maven2/com/nin/metrics/action/	http://repo1.maven.org/maven2/com/nin/metrics/action/
Android - platform - dalvik	2.1_r1	Apache License 2.0	http://developer.android.com/index.html	http://developer.android.com/index.html
Android - platform - frameworks - base	4.0.1_r1	Apache License 2.0	http://developer.android.com/index.html	http://developer.android.com/index.html
Android - platform - prebuilts - sdk	4.4_r1	Apache License 2.0	http://developer.android.com/index.html	http://developer.android.com/index.html
Android SDK Support Libraries	19	Apache License 2.0	https://developer.android.com/tools/sup-ports-library/index.html	https://developer.android.com/tools/sup-ports-library/index.html
Android SDK Support Libraries	23.1.1	Apache License 2.0	https://developer.android.com/tools/sup-ports-library/index.html	https://developer.android.com/tools/sup-ports-library/index.html
Drools :: Scorecards	5.5.0.Final	Apache License 2.0	http://mirrors.ibiblio.org/maven2/org/drools/droolsscorecards/	http://mirrors.ibiblio.org/maven2/org/drools/droolsscorecards/
mongolduu	master-20121109	Apache License 2.0	http://github.com/tugstugi/mongolduu/	http://github.com/tugstugi/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/jquery/jquery/	http://github.com/jquery/jquery/
jquery_mobile_rails	1.3.2	MIT License	http://rubygems.org/gems/jquery_mobile_rails	http://rubygems.org/gems/jquery_mobile_rails
SafeSlinger-Android	1.8.3-messenger	MIT License	http://github.com/SafeSlingerProject/SafeSlinger-Android/	http://github.com/SafeSlingerProject/SafeSlinger-Android/
OpenSSL	Generic Version	OpenSSL Combined 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	9/1/2001	Public Domain	http://www.mirrors.wiretapped.net/security/cryptography/hash es/sha1	http://www.mirrors.wiretapped.net/security/cryptography/hash es/sha1
SyncML C Toolkit	4.0.3	SyncML License	http://sourceforge.net/projects/syncmlctoolkit/	http://sourceforge.net/projects/syncmlctoolkit/

3.9.Supplier : Redbend

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

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bsdiff	4.3	BSDiff license	http://github.com/geraldonetto/bsdiff/	http://github.com/geraldonetto/bsdiff/
CMarkup	11.05	Acquired CMarkup Developer License	http://www.firstobject.com/dn_markup.htm	http://www.firstobject.com/dn_markup.htm
CRC table (Autogen)	Has no version number	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 "Simplified" License	http://sourceforge.net/projects/fuse/	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 Semiconductor CodeWarrior Development Studio for MPC55xx/MP C56xx	2.10 special edition	Commercial license		
GNU C Library - glibc	2.2.4	GNU Lesser General	http://www.gnu.org/software/libc/libc.html	http://www.gnu.org/software/libc/libc.html

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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/libdivsufsort/	http://code.google.com/p/libdivsufsort/
lz4	94	BSD 2-clause "Simplified" License	http://code.google.com/p/lz4/	http://code.google.com/p/lz4/
LZO real-time data compression library	2.04	Acquired commercial license	http://www.oberhumer.com/opensource/lzo/	http://www.oberhumer.com/opensource/lzo/
MSDN Sample Code	vs.85	Microsoft 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 "Revised" License	http://www.netbsd.org/	http://www.netbsd.org/
UCL Data Compression Library	1.03	Acquired commercial license	http://www.oberhumer.com/opensource/ucl/	http://www.oberhumer.com/opensource/ucl/
XMLFoundation	Apr-14	MIT License	http://xmlfoundation.codeplex.com/	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

Supplier: SK_telecom				
Component name	Version	License	Homepage	Copyright
aladdin-md5	Unspecified	zlib License	https://opensource.apple.com/source/cups/cups-30/cups/md5.h.auto.html	Copyright (C) 1999 Aladdin Enterprises
Alsa Libraries	Unspecified	GNU Lesser General Public License v2.1 or later	http://www.alsa-project.org/	
Android - platform - frameworks - base	android-7.0.0_r1	Apache License 2.0	https://android.googlesource.com/platform/frameworks/base	(C) 2015 The Android Open Source Project
Android - platform - frameworks - base	Unspecified	Apache License 2.0	https://android.googlesource.com/platform/frameworks/base	
Anti-Grain Geometry	Unspecified	Anti-Grain Geometry Public License	http://sourceforge.net/projects/vector-agg/	Copyright (C) 2002-2005 Maxim Shemanarev
Boost C++ Libraries - boost	Unspecified	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	Unspecified	curl License	http://github.com/curl/curl/	Copyright (C) 1998 - 2011, Daniel Stenberg
gecko-dev	Unspecified	BSD 3-clause "New" or "Revised" License	http://github.com/mozilla/gecko-dev/	(C) 2002 Jean-Marc Valin
gpclib	Unspecified	Commercial License	http://github.com/rdpeng/gpplib/	(C) 1997-2004, Advanced Interfaces Group, University of Manchester.
GSM 06.10 Lossy Speech Compression	Unspecified	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	Unspecified	GNU Library General Public License v2 or later	http://gstreamer.freedesktop.org/modules/	
jsoncpp	Unspecified	Public Domain or MIT	http://sourceforge.net/projects/jsoncpp/	Copyright (c) 2007-2010 by Baptiste Lepilleur and The JsonCpp Authors,
libogg	Unspecified	BSD 3-clause "New" or "Revised" License	http://xiph.org/ogg/	Copyright (c) 2002, Xiph.org Foundation
libxml2	Unspecified	MIT license	http://xmlsoft.org/	
OpenGL-Examples	master - 20141123	zlib License	http://github.com/progschj/OpenGL-Examples/	Copyright (c) 2012 Jakob Progsch
OpenSSL	1.0.2	OpenSSL Combined License	http://www.openssl.org	
Opus	Unspecified	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	Unspecified	ISC License	http://github.com/pkgconf/pkgconf/	Copyright (c) 1998 Todd C. Miller
pugixml	Unspecified	MIT license	http://pugixml.org/	Copyright (c) 2006-2018 Arseny Kapoulkine
PVRTC Library	Unspecified	Unspecified	https://www.imgtec.com/developers/powervr-sdk-tools/installers/	
SDL	2	zlib License	http://www.libsdl.org/index.php	Copyright (C) 1997-2016 Sam Lantinga
SDL_gfx	Unspecified	zlib License	http://sourceforge.net/projects/sdlgfx/	
Speex	1.2beta2 dev	BSD 3-clause "New" or "Revised" License	http://www.speex.org/	
SQLite	Unspecified	Public domian	http://www.sqlite.org/	
Sunrise/set calculator	Unspecified	Public domian	https://stjarnhimlen.se/comp/sunriset.c	
tiny-AES128-C	20141218	Public domian	http://github.com/kokke/tiny-AES128-C/	

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wosh	Unspecified	BSD 3-clause "New" or "Revised" License	http://code.google.com/p/wosh/	Copyright (C) 2002 Michael Ringgaard. All rights reserved.
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	NA
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:

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

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11	lucy search engine – lucy	0.6.0	http://sourceforge.net/projects/lucy-search/	BSD 3-clause "New" or "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
15	Test-SQLite-blob	trunk-20120916-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/kazlib	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				
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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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>
8	array-find	1.0.0		MIT License	Copyright (c): Stefan Duberg <stefanduberg@gmail.com>
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>
11	array-shuffle	1.0.0		MIT License	Copyright (c): Sindre Sorhus <sindresorhus@gmail.com>
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>
14	photoswipe		4.1	MIT License	Copyright (c): Dmitry Semenov
15	shake.js	1.2.2		MIT License	Copyright (c): Fractal <contact@wearefractal.com>

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16	validator	5.1.0	MIT License	Copyright (c):2018 Chris O'Hara <cohara87@gmail.com>
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>
26	json-rpc2	1.0.2	MIT License	Copyright (c): 2009 Eric Florenzano, Ryan 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>
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@gmail.com>
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): 2004..2007 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_system_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	boringsssl	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	cacheinvalidation	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_encoding_detection		Apache 2.0 License	Copyright (c): 2016 Google Inc.
58	cld3	2f6624f0a6d6fd8f76bdcae38558c73d23ebec1e	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 (Freetype 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.
69	grpc	1.4.7	BSD 3 License	Copyright (c): 2015, Google Inc.
70	harfbuzz	1.3.1	MIT License	Copyright (c): 2010,2011,2012 Google, Inc
71	iccjpeg	32.0.1700.102	Custom License	Copyright (c): 1991-1998, Thomas G. Lane.
72	icu	56.1	ICU license	Copyright (c): 1995-2015 International Business Machines Corporation and others
73	jsoncpp-svn	0.6.0-rc2	MIT License	Copyright (c): 2007-2010 Baptiste Lepilleur
74	khronos_headers		MIT License, SGI Free Software License B	Copyright (c): 2007-2010 The Khronos Group Inc.

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75	leveldb		1.2	BSD 3 License	Copyright (c): 2011 The LevelDB Authors. All rights reserved.
76	libaddressinput	master_2014-10-07		Apache 2.0 License	https://obigo.com/
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/
80	libphonenumber	8.9.8		Apache 2.0 License	Copyright (c): 2014 The Chromium Authors. All rights reserved.
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.
83	libvpx	1.6.0		BSD 3 License	Copyright (c) 2010, The WebM Project authors. All rights reserved.
84	libwebm	1.0.0.27		BSD 3 License	Copyright (c) 2010, Google Inc. All rights reserved
85	libwebp	0.5.1		BSD 3 License	Copyright (c) 2010, Google Inc.
86	libxml2	2.9.5		MIT License	Copyright (c) 1998-2012 Daniel Veillard.

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87	libXNVCtrl	master_2018-03-01	MIT License	Copyright (c) 2008 NVIDIA
88	libxslt	1.1.29-rc2	MIT License	Copyright (c) 1998- 2012 Daniel Veillard
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.
92	modp_b64	master_2014-10-08	BSD 3 License	Copyright (c) 2005, 2006 Nick Galbreath
93	mojo	master_2014-10-08	BSD 3 License	Copyright (c) 2014 The Chromium Authors.
94	mt19937ar	32.0.1700.102	BSD 3 License	Copyright (c) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura
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.
100	pdfium/chromium	3440	BSD 3 License	Copyright (c) 2014 PDFium Authors.

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101	protobuf	3.0.0-beta-3	BSD 3 License	Copyright (c) 2008 Google Inc.
102	qcms		MIT License	Copyright (c) 2009 Mozilla Corporation, Copyright (c) 1998-2007 Marti Maria
103	re2	42401	BSD 3 License	Copyright (c) 2009 The RE2 Authors.
104	SevenZip LZMA	15.14	Public Domain	https://obigo.com/
105	shaderc	2018	Apache 2.0 License	https://obigo.com/
106	skia	1.60.0	BSD 3 License	Copyright (c) 2011 Google Inc.
107	smhasher-trunk	41751	MIT License	Copyright (c) 2011 Google, Inc.
108	snappy	1.1.0	BSD 3 License	Copyright (c) 2011 Google Inc
109	uriparser-uriparser	0.8.0	BSD 3 License	Copyright (c) 2007, Weijia Song <songweijia@gmail.com>, 2007, Sebastian Pipping <sebastian@pipping.org>
110	SPIRV-Tools-spirv	1.1-rev1	MIT License	Copyright (c) 2015-2016 The Khronos Group Inc.
111	sqliteersion	3.8.4	Public Domain	https://obigo.com/
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	usrctp	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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115	v8	5.6.309.1	BSD 3 License	Copyright (c) 2006-2011, the V8 project authors.
116	VulkanTools-sdk	1.0.8.0	MIT License	Copyright (c) 2015 Valve Corporation
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	a15a8ab86b934cf436f8fac4a8a11ddf8b59d792	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
125	uriparser	0.8.5	BSD 3 License	Copyright (c) 2007, Weijia Song

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				2007, Sebastian Pipping
126	xmlsec1	1.2.24	MPL v1.1	Copyright (c)2002-2016 Aleksey Sanin
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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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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::CommitTransaction() CppSQLite3Statement::RollbackTransaction() CppSQLite3DB::getDB() CppSQLite3DB::RestoreOrBackupDb() 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		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	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
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	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 compiler directive to get gen_test (mostly) working when cythonized
- options.py Work around cython incompatibilities in options.py
- options_test.py Work around cython incompatibilities 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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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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The word list in cjdict.txt are generated by combining three

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#

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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.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	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
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	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 compiler directive to get gen_test (mostly) working when cythonized
- options.py Work around cython incompatibilities 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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libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo, to wordsmith certain sections, and to remove impolitic language that existed in the libjpeg v8 README. It is included only for reference. Please see README.md for information specific to libjpeg-turbo.

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The Independent JPEG Group's JPEG software

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This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP

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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.

coderrules.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.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

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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.

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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.iwg.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/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/).

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FILE FORMAT WARS

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The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does

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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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