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XC_CT	XC_CT_PRJ_RN_AIVI_Scope3.x	13th Sep 2023

Open-Source Software Attributions for XC_CT_ RN_AIVI_Scope 3.x

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bzip2	1.0.6	Bzip2 License	https://source ware.org/bzip2 /		ht (C) 1996-2010 Julian Seward d@bzip.org>.;
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gmp	4.2.1	GNU Lesser General Public License v2.1 or later	http://gmplib.o rg/		ht (C) 1991-2014 Free Software tion, Inc.;
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linux_kernel	4.14.286	GNU General Public License v2.0 only Multiple license: LGPL-v2.1+, MIT license, BSD-3 Clause GPL2.0 only with syscall exception	https://www.ke rnel.org/	Copyrig <linus.<sup>- (C) 1992 rafetmad 1995 Eb emoenk David va Copyrig anderse 1998-20 axboe@ van Ken <waltje@ Copyrig C</waltje@ </linus.<sup>	ht (C) Linus Torvalds, Torvalds@helsinki.fi> Copyright 2 David Giller, d@oxy.edu, Copyright (C) 1994, berhard MĶnkeberg, te@gwdg.de, Copyright (C) 1996 an Leeuwen, david@tm.tno.nl, ht (C) 1997, 1998 Erik Andersen, te@debian.org, Copyright (C) 002 Jens Axboe, 002 Jens Axboe, 002 Jens Axboe, 002 Jens Axboe, 003 Jens Axboe, 004 Jens Cox to C) Fred N. npe @uWalt.NL.Mugnet.ORG> ht (C) Alan Cox to gw4pts.ampr.org> Copyright (C) olfson Microelectronics PLC. ht (C) 2005 Opened hand Ltd. ht (C) 2010 Slim logic Ltd. ht (C) 2010 Texas Instruments byright (C) Alexey Kuznetsova @ms2.inr.ac.ru),Copyright (C) 003 Andreas acher,Copyright (C) 2011-2014, International Ltd. Copyright(C) 2014 Intel Corporation. All rights d. Copyright(c) 2013 - 2015 Intel Communications Copyright(c) 2016 Intel aland GmbH, Copyright (c) 2002
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unzip	6.0	Info-ZIP License	http://www.info -zip.org	Copyrig Gleixner Xilinx In Copyrig rights re Copyrig Copyrig Richard	J. Hill (sjhill@realitydiluted.com) ht (C) 2002-2006 Thomas r, Cavium Inc. (C) (2014-2014), c. (2017-2017); ht (c) 1990-2014 Info-ZIP. All eserved, ht 1994, 1995 Greg Roelofs, ht (C) 1990-1992 Mark Adler, B. Wales, Jean-Ioup Gailly, Kai ommel and Igor Mandrichenko;
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GCC Runtime Library Exception 3.1 to GPL 3.0

Version 3.1, 31 March 2009

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

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

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely welldefined independent of the application. Therefore, Subsection 2d requires that any applicationsupplied 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.

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then



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offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

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.



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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.

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-



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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.

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, whereas the latter must be combined with the library in order to run.

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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.

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely welldefined independent of the application. Therefore, Subsection 2d requires that any applicationsupplied 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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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



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

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

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

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

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

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.

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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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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

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

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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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aosp-	android-n-iot-	Apache	http://developer.and		
mirror/platform_hardware_libha rdware	preview-4	License 2.0	roid.com/index.html		
Android - platform - frameworks	android-	Apache	http://developer.and		
- av	7.0.0 r1	License 2.0	roid.com/index.html		
Android - platform - external -	android-	Apache	http://developer.and		
bluetooth - bluedroid	4.2.2 r1	License 2.0	roid.com/index.html		
Android - platform - frameworks	android-4.2 r1	Apache	http://developer.and		
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aosp-	android-o-	Apache	http://developer.and		
mirror/platform_hardware_libha rdware	preview-1	License 2.0	roid.com/index.html		
Android - platform - frameworks	android-	Apache	http://developer.and		
- base	7.1.2 r1	License 2.0	roid.com/index.html		
Android - platform - frameworks	android-2.1 r1	Apache	http://developer.and		
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Android - platform - frameworks	android-o-	Apache	http://developer.and		
- base	preview-2	License 2.0	roid.com/index.html		
CyanogenMod - android_external_bluetooth_blu edroid	cm-10.2-M1	Apache License 2.0	http://developer.and roid.com/index.html		
	android-n-mr2-	Apache	http://developer.and		
aosp- mirror/platform_hardware_libha rdware	preview-1	License 2.0	roid.com/index.html		
Android - platform - packages -	android-	Apache	http://developer.and		
apps - Bluetooth	5.1.0 r1	License 2.0	roid.com/index.html		
Android - platform - frameworks	android-p-	Apache	http://developer.and		
- base	preview-1	License 2.0	roid.com/index.html		
Android - platform - frameworks	android-	Apache	http://developer.and		
- base	3.2.4 r1	License 2.0	roid.com/index.html		
Android - platform - frameworks	android-wear-	Apache	http://developer.and		
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Android - platform - frameworks	android-	Apache	http://developer.and		
- base	8.1.0 r2	License 2.0	roid.com/index.html		
aosp-	android-	Apache	http://developer.and		
mirror/platform_hardware_libha rdware	6.0.1_r30	License 2.0	roid.com/index.html		
Android - platform - frameworks	android-	Apache	http://developer.and		
- base	4.0.3_r1	License 2.0	roid.com/index.html		
Android - platform - frameworks	android-	Apache	http://developer.and		
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хс_ст	xc_c	T_PRJ_RN_AIV	13th Sep 20	
base		8.0.0_r21	License 2.0	roid.com/index.html
Android - platform	n - frameworks	android-wear-	Apache	http://developer.and
base		n-preview-2	License 2.0	roid.com/index.html
Android - platform	n - packages -	android-	Apache	http://developer.and
pps - Bluetooth		5.0.0_r1	License 2.0	roid.com/index.html
ndroid - platform	n - packages -	android-4.2_r1	Apache	http://developer.and
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base		4.4_r0.9	License 2.0	roid.com/index.html
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losp-		android-	Apache	http://developer.and
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Android - platform	n - packages -	android-4.4_r1	Apache	http://developer.and
pps - Bluetooth	-	_	License 2.0	roid.com/index.html
Android - platform	n - frameworks	android-	Apache	http://developer.and
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			v2.0 only AND	
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base		preview-4	License 2.0	roid.com/index.html
Android - platform	- frameworks	android-	Apache	http://developer.and
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хс_ст	xc_c	XC_CT_PRJ_RN_AIVI_Scope3.x			13th Se	ep 2023
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Android - platform libhardware	ı - hardware -		Apache License 2.0		o://developer.and d.com/index.html	
Android - platform - base	ı - frameworks	android-n-mr2- preview-1	Apache License 2.0		o://developer.and d.com/index.html	
Android - platform apps - Bluetooth	ı - packages -	android- 6.0.0_r1	Apache License 2.0		o://developer.and d.com/index.html	
Android - platform - opt - bluetooth	ı - frameworks	android- 6.0.0_r1	Apache License 2.0		o://developer.and d.com/index.html	
Android - platform - base	ı - frameworks	android-n- preview-1	Apache License 2.0		o://developer.and d.com/index.html	
Android - platform - base	ı - frameworks	android-4.2_r1	Apache License 2.0		o://developer.and d.com/index.html	

3.2.Supplier : Android_OMR1

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

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хс_ст	XC_CT_PRJ_	RN_AIVI_Scope3.x	13th Sep 2023		
OP-TEE (including TEE internal API)		BSD2			
OP-TEE Linux dri	ver	GPL v2/MIT			
Overview		Apache v2			
patch files for i2c·	tools	GPL v2			
QoS driver		GPL v2/MIT			
QoS I/F		MIT			
R8A7795 GX665 Driver for Android		GPL v2/MIT			
R8A7796 GX625 Driver for Android		GPL v2/MIT			
Settings file of us	b fw	Apache v2			
• • •					

Settings file of usb fw	Apache v2	
si-tools	GPL v3	
SPI / HyperFlash driver	BSD2	
SS6.3-Public Driver for Linux	GPL v2/MIT	
Timer driver	BSD2	
U-Boot	GPL v2	
UVCS Driver for Android	GPL v2/MIT	
VSP Manager	GPL v2/MIT	
VSP Manager I/F	MIT	
VSPM I/F Driver	GPL v2/MIT	

3.3.Supplier : Apertis

	S	upplier: Apertis		
Name of OSS Component	Version	License	Home Page	Copyrights
Acl	2.2.53- 4co1bv2019.0b 1	LGPL-2.1+ Other licenses: FSF Public Domain X11 GPL V3 or later with autoconf exception GNU Libtool GPL V3 or later with exception		Copyright © 2011 Andreas Gruenbach er Copyright 1992-2018 Free Software Foundation, Inc. Copyright © 2018 Silicon Graphics, Inc.
Apertis pro archive keyring	0.2rb1bv2020. 0b1	GPL-2.0+		Copyright: 2012 RBEI Ltd.
Apparmor	2.13.2- 10co2bv2020pr eb3	GPL-2.0 Other licenses: LGPL-2.1 Public Domain X11 MIT		Copyright 1992-2018 Free Software Foundation, Inc.



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Attr	2.4.48- 4co1bv2019 .0b1 LGPL-2.1+ Other licenses: GPL-2.0+ FSF Public Domain X11	John Dong Copyright (C) 2009 Dulmandak h Sukhbaatar Copyright (C) 2007 Andreas Gruenbach er Copyright (C) 2006 Volker Kuhlmann Copyright (C) 2006 SuSE Linux Products GmbH, Nuernberg Copyright (C) 1994 X Consortium Copyright (C) 1994 X Consortium Copyright (C) 1992- 1996, 1998- 2012 Free Software Foundation, Inc. Copyright (C) 2007 Andreas Gruenbach er <a.gruenba cher@comp uter.org> Copyright 1992-2018 Free Software Foundation, Inc. Copyright 1992-2018 Free Software Foundation, Inc. Copyright (c) 2001- 2003,2005 Silicon Graphics, Inc. All Rights Reserved.</a.gruenba



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base-files	10.3+deb10 u3co4~v202 0.0bv2020.0 b1	GPL-2.0+ Other licenses: MPL-2.0 LGPL-2.1+ LGPL-2.0+ GFDL-1.3 CC0-1.0 BSD-3-Clause Artistic-1.0-Perl Apache-2.0	Copyright (C) 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.	
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Core utils	6.9- 0co11ba1	GPL-2.0+ Other licenses: Public Domain GPL V2 or later with autoconf exception GPL-2.0 BSD-3-Clause GFDL-1.2 ISC FSF X11 LGPL-2.1+ GPL V2 or later with bison exception GPL V2 or later with bison exception GPL V2 or later with texinfo exception FSFUL	2004 Colin Watson Copyright 2001, 2002 Joey HessCopyri ght (C) of this file 2014 Chris Leick Copyright (C) Helge Kreutzmann Copyright (C) 2010 Software in the Public Interest Copyright (C) 2010 Free Software Foundation, Inc. Copyright (C) 2004 Nicolas FRANCOIS Copyright 1991-2004 Miquel van Smoorenbu rg Copyright 1998, 1991- 2016 Free Software Foundation, Inc. Copyright 1989, 1991- 2016 Free Software Foundation, Inc. Copyright 1989, 1991- 2016 Free Software Foundation, Inc. Copyright 1989, 1991- 2016 Free Software Foundation, Inc. Copyright (C) 1996- 1999 by Internet Software Consortium. Copyright (C) 1990, 1993, 1994 The Regents of the University of California.

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e2fsprogs	1.44.5- 1+deb10u3b v2020.0b1	GPL-2.0+ LGPL-2.0+ Other licenses: NTP BSD-3-Clause LGPL-2.1+ Public Domain ISC Apache-2.0 GPL V3 or later with autoconf exception FSF GPL V2 or later with texinfo exception GPL V2 or later with bison exception FSFUL	Ltd.Copyright (C) 2004 Kay Sievers Copyright (c) 2001 Daniel Phillips Copyright (C) 2001 Andreas Gruenbach er Copyright (C) 1998 Andrey Shedel Copyright (c) 1997, 1998, 2001 Kungliga Tekniska Högskolan Royal Institute of Technology, Stockholm, Sweden Copyright (c) 1988 Regents of the University of California Copyright 1998-2000 Red Hat, Inc Copyright 1998-2000 Red Hat, Inc Copyright (c) 2001 Alcove Copyright (c) 1997 Klee Dienes Copyright (c) 1997 Klee Dienes Copyright (c) 1997-2003 Yann Dirson Copyright	

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Gcc8	8.3.0- 6bv2019.0b 1	GPL-3.0+-with- GCC-exception 3.1 Other licenses: BSD-3-Clause MIT LGPL-2.1+ GPL-2.0+ BSD-1-Clause FSFAP ISC BSL-1.0 Freeware License NCSA BSD-2-Clause BSD-4-Clause- UC LGPL-2.0+ Public Domain BSD-2-Clause- NetBSD Zlib GFDL-1.3 GPL-2.0 NTP CC-BY-SA-3.0 Unicode Curl License bzip2-1.0.6 IJG CC-BY-4.0 Sun RPC License LGPL V2.1+ with GCC exception GPL-3.0+ with gnu-javamail- exception GPL-2.0+ with gnu-javamail- exception GPL-2.0+ with gnu-javamail- exception GPL-2.0+ with gnu-javamail- exception GPL V3 or later with Tex exception GPL V1.3	Drepper <drepper@ gnu.ai.mit.e du> Copyright (C) 1994 X Consortium Dual license - GPL-2.0+ & LGPL- 2.1+ gcc- 8/gcc-8.3.0- dfsg.tar.xz/g cc- 8.3.0/libffi Copyright (C) 2008- 2018 Free Software Foundation, Inc. Contributed by Xinliang David Li Copyright (C) 2008- 2018 Free Software Foundation, Inc. Contributed by Wolfgang Gellerich@ de.ibm.com). Copyright (C) 2008- 2018 Free Software Foundation, Inc. Contributed by Wolfgang Gellerich@ de.ibm.com). Copyright (C) 2008- 2018 Free Software Foundation, Inc. Contributed by Wolfgang Gellerich@ de.ibm.com). Copyright (C) 2008- 2018 Free Software Foundation, Inc. Contributed by Thomas Koenig, based on unpack_gen eric.c by Paul Brook Copyright (C) 2008- 2018 Free</drepper@ 	

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pcre3	2:8.39- 12co1bv201 9.0b1	BSD-3-Clause Other licenses: GPL V2 or later with autoconf exception BSD-2-Clause X11 Public Domain GPL-2.0+-with- libtool- exception	III 1 Cop (c) 4 Gaf 199 Cop (c) 4 G. I 199 Cop (c) 4 G. I 199 Cop (c) 4 Yur 199 Cop (c) 5 The Kuk Cop (c) 7 Dar Tuc Cop 2000 Zolt Her righ rese Cop 200 Jan Rer Cop 200 Jan Res Cop 200 Zolt Her Cop 200 Zolt Her Cop 200 Zolt Her Cop 200 </th <th>byright 2009 orsten kuk; byright 2005 rren kker byright(c) 09-2016 tan czeg All ts erved. byright © 2-2015 holson byright © 2-2015 holson byright © 04 Scott nes mnant byright 3-2013 ra poration ang@tile com). All ts erved. byright 09-2012 tan czeg byright 03 and vards bogle Inc. hor:</th>	byright 2009 orsten kuk; byright 2005 rren kker byright(c) 09-2016 tan czeg All ts erved. byright © 2-2015 holson byright © 2-2015 holson byright © 04 Scott nes mnant byright 3-2013 ra poration ang@tile com). All ts erved. byright 09-2012 tan czeg byright 03 and vards bogle Inc. hor:	

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sysvinit	2.93- 8bv2019.0b 1	GPL-2.0+ Other licenses: GPL-2.0	http://plumg rid.com Copyright (c) 2009 Filippo Argiolas Copyright (c) 2005 SUSE Linux Products GmbH, Germany Author: Hannes Reinecke Copyright (C) IBM Corp. 2003 Copyright (C) 2015- 2017 Jason A. Donenfeld Copyright (C) 2004 - 2009 Red Hat, Inc. Copyright (C) 2001 - 2003 Sistina Software (UK) Limited. 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) 2008	

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targplv2	1.17- 0co9ba1	GPL-2.0+ Other licenses: Public Domain GPL-1.0+ X11 LGPL-2.1+ 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 texinfo exception GPL V2 or later with autoconf exception	Jesse Smith Copyright (C) 2005 Miquel van Smoorenbu rg. Copyright © 2004 Free Software Foundation, Inc. Copyright (C) 1994 X Consortium Copyright (C) 1983 Regents of the University of California. (C) Copyright 2013 Bdale	
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xzutils	5.2.4- 1bv2019.0b 1	Public Domain Other licenses: GPL-2.0+ LGPL-2.1+ GPL-2.0+-with- libtool- exception FSFUL GPL V2 or later with autoconf exception GPL V3 or later with autoconf exception MIT	the University of California Copyright (C) 2012 Davidlohr Bueso Copyright (C) 2005 Kay Sievers Copyright (C) 2005 Jens Axboe Copyright (C) 1998- 2003 Miquel van Smoorenbu rg Copyright (C) 1994- 2005 Jeff Tranter Copyright (C) 1994- 2005 Jeff Tranter Copyright (C) 1994 X Consortium Copyright: © 2014, Google Inc. Copyright: © 2008, Steven G. Johnson Copyright: © 2003 Free Software Foundation, Inc. Authors: Bruno Haible Copyright: © 1997- 2007 by Dimitri van Heesch Copyright: © 1993, Jean-loup Gailly Copyright:

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yajl	2.1.0-3ba1	ISC	Henry Spencer. Copyright (C) 1994 X Consortium Copyright (C) 1993 Jean-loup Gailly Copyright (c) 2007- 2014, Lloyd Hilaiel Copyright (c) 2010- 2011 Florian Forster Copyright: 2011 John Stamp

3.4.Supplier : CGI

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

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Google Test		BSD 3-Clause		
		License		
GraphSharp		Apache 2.0		
		License		
HarfBuzz Text Sha	ping Engine	HarfBuzz /		
UCDN - Unicode and Normalization	Database	UCDN License		
CU		ICU License		
son-cpp JSON rea	der and	Json-cpp		
writer in C++		License		
_ibktx		Libktx License		
ibunibreak Library		Libunibreak		
		License		
_og4Net		Apache 2.0		
- H	(0.5)	License		
Median Cut algorith	nm (C Plus	Creative		
Plus)		Commons CC0		
Alexandre Hartha Com		1.0 Universal		
licrosoft Unity Cor	ntainer	Microsoft		
		Public License (Ms-PL)		
VCalc		MIT License.		
IEUQUANT Neura	Not	NEUQUANT		
quantization algorit		Neural-Net		
		quantization		
		algorithm		
		license		
OpenGL ES		OpenGL		
•		Licensing		
		Programs		
Prism (Composite /		Microsoft		
Guidance for WPF	and	Public License		
Silverlight)		(Ms-PL)		
RLAD Compression	n	RLAD		
		Compression		
	view Oliest	license		
SharpSvn (Subvers	sion Client	Apache 2.0		
<u>API for .Net)</u> Jnicode.org Bidi R	oforonco	License Unicode Inc.		
mplementation	elelelice	License		
mplementation		Agreement		
VPF PropertyGrid	Control	Apache 2.0		
		License		
Xerces-C++ XML F	Parser	Apache 2.0		
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ZLIB Data Compre	ssion Librarv	ZLIB Data		
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3.5.Supplier : Escrypt

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

3.6.Supplier : LG Innotek

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

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			ml	Drown
applypatch	Android4.4	BSD-2-Clause AND Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2009 The Android Open Source Project
aprd	Android4.4	GPL-2.0-only	http://developer.an droid.com/index.ht ml	
atrace	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2012 The Android Open Source Project
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bmgr	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (c) 2009, The Android Open Source Project
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busybox	1.17.1	GPL-2.0-only	http://developer.an droid.com/index.ht ml	Copyright (C) 1998-2009 Erik Andersen, Rob Landley, Denys Vlasenko and others
common_tim e	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (c) 2005- 2008,2011-2012 The Android Open Source Project
compress_si mu	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2011 The Android Open Source Project
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Android4.4	Apache-2.0			Copyright (C) 2005-2008, 2011-2012 The Android Open Source Project
Android4.4	BSD-3-Clause AND ISC AND BSD-4-Clause-UC AND Apache- 2.0	droid.o ml	com/index.ht	Copyright (C) 1998-2004 WIDE Project. All rights reserved.
5.5.6	BSD-2-Clause AND BSD-3- Clause AND ISC AND Apache- 2.0	droid.o	com/index.ht	Copyright (c) 1990, 1993 The Regents of the University of California. All rights reserved. Copyright (c) 2006-2008 Roy Marples <roy@marples. name> All rights reserved Copyright 2006- 2012 Roy Marples <roy@marples. name> All rights reserved Copyright (c) 2004,2007 by Internet Systems Consortium, Inc. ("ISC") Copyright (c) 1996-2003 by Internet Software Consortium Copyright 2011, The Android Open Source Project</roy@marples. </roy@marples.
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drmserver	Android4.4	Apache-2.0	developer.an com/index.ht	Copyright (c) 2005-2008,2010 The Android Open Source Project	
dumpdata	Android4.4	Apache-2.0	developer.an com/index.ht	Copyright (C) 2008 The Android Open Source Project	
dumpstate	Android4.4	Apache-2.0	developer.an com/index.ht	Copyright (C) 2008,2013 The Android Open Source Project	
dumpsys	Android4.4	Apache-2.0	developer.an com/index.ht	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	developer.an com/index.ht	Copyright 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 by Theodore Ts'o. Copyright 1990, 1991, 1992 Free Software Foundation, Inc. Written May 1989 by Mike Haertel. Copyright (C) 1985-2005 by the Massachusetts Institute of Technology. All rights reserved. Copyright (C) 1996- 1999,2003,2007 Theodore Ts'o. Copyright 1999 Andreas Dilger (adilger@enel.u calgary.ca) Copyright (c) 1988 Regents of the University of California. All rights reserved.	



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expat	2.1	MIT		developer.an com/index.ht	Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd and Clark Cooper Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006 Expat maintainers.	
factorytest	Android4.4	Apache-2.0	droid.o ml	developer.an com/index.ht	Copyright (C) 2006,2007,2014 The Android Open Source Project Copyright (C) 2014 The CyanogenMod Project	
filterfw	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2011 The Android Open Source Project	
filterpacks	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2011 The Android Open Source Project	
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framework- native-data	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2006-2013 The Android Open Source Project	
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gcc- demangle	4.6	GPL-2.0-or-later AND LGPL-2.0- or-later		developer.an com/index.ht	Copyright 1992, 1993, 1994, 1995, 1996, 1997, 1998, 2000, 2001, 2002, 2003, 2004, 2005, 2007, 2008, 2009, 2010 ↑ Free Software Foundation, Inc. Copyright ↑ (C) 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 Free Software Foundation, Inc. Written by Ian Lance Taylor <ian@wasabisy stems.com>.</ian@wasabisy 	
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healthd	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2013 The Android Open	
icu4c	49.1.1	ICU	http://developer.an droid.com/index.ht ml	Source Project Copyright (c) 1995-2012 International Business Machines Corporation and others All rights reserved.	
ime	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (c) 2007, The Android Open Source Project	
input	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (c) 2007, The Android Open Source Project	
iosnoop.sh	Android4.4	GPL-2.0-or-later	http://developer.an droid.com/index.ht ml	COPYRIGHT: Copyright (c) 2014 Brendan Gregg.	
iotat	Android4.4	Apache-2.0 AND GPL-2.0-only	http://developer.an droid.com/index.ht ml	Copyright 2006,2007 The Android Open Source Project	



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хс_ст)	XC_CT_PRJ_RN_AIVI_Scope3.x 13			3th Sep 2023	
iproute2	ss120521	GPL-2.0-or-later	http:// droid. ml	developer.an com/index.ht	Copyright (C) 2012 Spreadtrum Communication s Inc. Alexey Kuznetsov, <kuznet@ms2.i nr.ac.ru> Copyright (C)2004,2006- 2007 USAGI/WIDE Project</kuznet@ms2.i 	
ipsec-tools (racoon)	0.7.3	BSD-3-Clause		developer.an com/index.ht	Copyright (C) 1995-2003 WIDE Project. Copyright (C) 2004-2006 Emmanuel Dreyfus All rights reserved. Copyright (C) 2004 SuSE Linux AG, Nuernberg, Germany. Contributed by: Michal Ludvig <mludvig@suse .cz>, SUSE Labs All rights reserved. Copyright 2000 Wasabi Systems, Inc. All rights reserved. Copyright (C) 2005 International Business Machines Corporation Copyright (c) 2005 by Trusted Computer Solutions, Inc. All rights reserved. Copyright 2000 Aaron D. Gifford. All rights reserved.</mludvig@suse 	



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хс_ст	x	XC_CT_PRJ_RN_AIVI_Scope3.x 13th Sep 2023			th Sep 2023
iptables	1.4.20	GPL-2.0-or-later AND Artistic-2.0	droid.o	developer.an com/index.ht	(C) 1999-2006 by the netfilter coreteam <coreteam@net filter.org>: Paul 'Rusty' Russell <rusty@rustcor p.com.au> Marc Boucher <marc+nf@mbsi .ca> James Morris <jmorris@interc ode.com.au> Harald Welte <laforge@ ↑<br="">gnumonks.org> Jozsef Kadlecsik <kadlec@black hole.kfki.hu> Copyright © Jan Engelhardt, 2011</kadlec@black </laforge@></jmorris@interc </marc+nf@mbsi </rusty@rustcor </coreteam@net
iputils	s20121221	GPL-2.0-or-later AND BSD-4- Clause-UC		developer.an com/index.ht	opyright (c) 1989 The Regents of the University of California. All rights reserved. This code is derived from software contributed to Berkeley by Mike Muuss. Copyright (c) 1983, 1993 The Regents of the University of California. All rights reserved. Copyright (c) 1990, 1993 The Regents of the University of California. All rights reserved. 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

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хс_ст	x	XC_CT_PRJ_RN_AIVI_Scope3.x			th Sep 2023
iwnpi	Android4.4	MIT		developer.an com/index.ht	Jacobson. Copyright (c) 2007, 2008 Johannes Berg Copyright (c) 2007 Andy Lutomirski Copyright (c) 2007 Mike Kershaw Copyright (c) 2008-2009 Luis R. Rodriguez Copyright (c) 2013 Wenjie Zhang Copyright (c) 2014 Huiquan Zhou
jpeg	Android4.4	BSD-3-Clause AND IJG AND Apache-2.0 AND Zlib		developer.an com/index.ht	Copyright (C) 2009-2011 Nokia Corporation and/or its subsidiary(-ies). All rights reserved. Contact: Alexander Bokovoy <alexander.bok ovoy@nokia.co m> Copyright (C) 2007- 2008,2010-2011 The Android Open Source Project Copyright (C) 2010-2011 Intel Corporation</alexander.bok
Kernel	4.4	GPL-2.0-only	droid.o ml	developer.an com/index.ht	Copyright (C) 1989, 1991 Free Software Foundation, Inc.
keystore	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2008-2009, 2011-2013 The Android Open Source Project
keystore- engine	Android4.4	BSD-2-Clause		developer.an com/index.ht	Copyright 2012- 2013 The Android Open



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					Source Project
libandroid	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2009, 2010 The Android Open Source Project
libandroid_s ervers	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2006-2013 The Android Open Source Project
libandroidfw	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (c) 2005-2008,2010 The Android Open Source Project
libanroid_run time	Android4.4	BSD-3-Clause AND Apache-2.0		developer.an com/index.ht	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
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libbt	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2009-2012 Broadcom Corporation
libbt-client- api	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2009-2011 Broadcom Corporation
libc	Android4.4	BSD-3-Clause AND BSD-2- Clause		developer.an com/index.ht	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		developer.an com/index.ht	Copyright (c) 2010, 2011 Intel Corporation



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libc_malloc_ debug_leak	Android4.4	BSD-2-Clause		developer.an com/index.ht	Copyright (C) 2008,2012 The Android Open Source Project All rights reserved.	
libc_malloc_ debug_qemu	Android4.4	BSD-2-Clause		developer.an com/index.ht	Copyright (C) 2009 The Android Open Source Project All rights reserved.	
libcamera	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (c) 2005- 2008,2011-2013 The Android Open Source Project	
libcameraser vice	Android4.4	Apache-2.0	droid. ml	developer.an com/index.ht	Copyright (c) 2005- 2008,2012-2013 The Android Open Source Project	
libcorkscrew	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (c) 2011, The Android Open Source Project	
libctest	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2007 The Android Open Source Project	
libcutils	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (c) 2005-2008, The Android Open Source Project	
libdiskconfig	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright 2008, The Android Open Source Project	
libdrmframe work	Android4.4	Apache-2.0	droid. ml	developer.an com/index.ht	Copyright (c) 2005-2008,2010 The Android Open Source Project	
libeffects	Android4.4	Apache-2.0	droid. ml	developer.an com/index.ht	Copyright (c) 2005-2013 The Android Open Source Project	
libefuse	Android4.4	GPL-2.0-only		developer.an com/index.ht	Copyright (C) 2012 Spreadtrum Communication s Inc.	



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хс_ст		XC_CT_PRJ_RN_AIVI_Scope3.x 13t		th Sep 2023	
libFmRecord Hal	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2012 The Android Open Source Project
libgui	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2007- 2008,2010-2013 The Android Open Source Project
libhardware	Android4.4	Apache-2.0	droid. ml	developer.an com/index.ht	Copyright (c) 2005- 2008,2011-2013 The Android Open Source Project
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libion	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright 2011 Google, Inc
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liblog	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (c) 2005-2008, The Android Open Source Project
libm	Android4.4	BSD-2-Clause		developer.an com/index.ht	Copyright (c) 2001-2011 The FreeBSD Project. All rights reserved. Copyright (c) 2002-2007



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хс_ст	x	C_CT_PRJ_RN_AIVI_Scope3	3.x	13	13th Sep 2023	
libmedia	Android4.4	Apache-2.0	http://	developer.an	David Schultz <das@freebsd .ORG> All rights reserved. Copyright (c) 2003 Mike Barcroft <mike@freebs D.org> Copyright (c) 2010 The Android Open Source Project All rights reserved. Copyright (c)</mike@freebs </das@freebsd 	
			droid. ml	com/index.ht	2005-2012, The Android Open Source Project	
libmediaplay erservice	Android4.4	Apache-2.0	droid. ml	developer.an com/index.ht	Copyright (c) 2005- 2009,2012-2013 The Android Open Source Project	
libmemion	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright 2015 The Android Open Source Project	
libmemtrack	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2013 The Android Open Source Project	
libmtp	1.0.1	LGPL-2.0-or-later		developer.an com/index.ht	Copyright (C) 2005-2009 Linus Walleij <triad@df.lth.se > Copyright (C) 2005-2008 Richard A. Low <richard@wentn et.com> Copyright (C) 2007 Ted Bullock <tbullock@cana< td=""></tbullock@cana<></richard@wentn </triad@df.lth.se 	
					da.com> Copyright (C) 2007 Tero Saarni <tero.saarni@g mail.com> Copyright (C) Page 295 of 708</tero.saarni@g 	



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хс_ст	x	XC_CT_PRJ_RN_AIVI_Scope3.x		13th Sep 2023	
					2008 Florent Mertens <flomertens@g mail.com> Copyright (C) 2001-2004 Mariusz Woloszyn <emsi@ipartner s.pl> Copyright (C) 2003-2009 Marcus Meissner <marcus@jet.fr anken.de></marcus@jet.fr </emsi@ipartner </flomertens@g
libnativehelp er	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (c) 2005-2008, The Android Open Source Project
libnbaio	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2012-2013 The Android Open Source Project
libnetutils	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (c) 2005-2008, The Android Open Source Project
libnfc-nxp	1.1	Apache-2.0		developer.an com/index.ht	Copyright (C) 2010 NXP Semiconductors
libnl	2	LGPL-2.0-only AND GPL-2.0-or- later	http://	developer.an com/index.ht	Copyright (c) 2003-2009 Thomas Graf <tgraf@suug.ch ></tgraf@suug.ch
libpng	1.2.46	Libpng		developer.an com/index.ht	Copyright 2000, Willem van Schaik. This code is released under the libpng license. libpng versions 1.2.6, August 15, 2004, through 1.2.46, July 9, 2011, are Copyright (c) 2004, 2006- 2009 Glenn Randers- Pehrson, and



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хс_ст	x	C_CT_PRJ_RN_AIVI_Sco	ope3.x	13th Sep 2023
libselinux	Android4.4	Public-domain	http://develop	Tom Lane Glenn Randers- Pehrson Willem van Schaik libpng versions 0.89, June 1996, through 0.96, May 1997, are Copyright (c) 1996, 1997 Andreas Dilger Distributed according to the same disclaimer and license as libpng-0.88, with the following individuals added to the list of Contributing Authors: Copyright (c) 2007, 2009 Glenn Randers- Pehrson
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libsparse	Android4.4	Apache-2.0	http://develop droid.com/ind ml	



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		3.x	13th Sep 2023		
libssl	1.1.0i	OpenSSL		developer.an com/index.ht	Copyright (c) 2002-2013, Jouni Malinen <j@w1.fi> and contributors All Rights Reserved. Generic advertisement service (GAS) server Copyright (c) 2008-2012, Qualcomm Atheros, Inc. Copyright (c) 2004, Sam Leffler <sam@errno.co m> * Copyright 1995-2018 The OpenSSL Project Authors. All Rights Reserved. Copyright 2002 Sun Microsystems, Inc</sam@errno.co </j@w1.fi>
libstagefright	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2005-2013 The Android Open Source Project Copyright (C) 1998-2009 PacketVideo Copyright 2003- 2010, VisualOn, Inc.
libstagefright hw	Android4.4	MIT AND Apache-2.0		developer.an com/index.ht	Copyright (c) 2008,2010 The Khronos Group Inc. Copyright (C) 1998-2009 PacketVideo
libstdc++	Android4.4	BSD-2-Clause AND MIT		developer.an com/index.ht	Copyright (c) 1994 Hewlett- Packard Company Copyright (c) 1996,1997 Silicon Graphics Page 299 of 708



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				Computer Systems, Inc.
libsuspend	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2012 The Android Open Source Project
libsync	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright 2012 Google, Inc
libsysutils	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2008 The Android Open Source Project
libui	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2005-2009,2012 The Android Open Source Project
libusbhost	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2010 The Android Open Source Project
libutils	Android4.4	BSD-2-Clause AND Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright 2012, The Android Open Source Project Copyright (c) 2005-2008, 2011-2012 The Android Open Source Project
libvideoeditor	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (c) 2005-2008,2011 The Android Open Source Project
lights	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (C) 2008 The Android Open Source Project
logcat	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (c) 2005-2008, The Android Open Source Project
logwrapper	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml	Copyright (c) 2005-2008, The Android Open Source Project
mdnsrespon der	320.10.80	Apache-2.0 AND BSD-3-Clause AND OpenSSL	http://developer.an droid.com/index.ht ml	Copyright (c) 1997-2006 Apple Computer, Inc. All rights reserved. Page 300 of 7 0



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media	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (c) 2013, The Android Open Source Project
medialog	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2013 The Android Open Source Project
mediaserver	Android4.4	Apache-2.0	droid.o ml	developer.an com/index.ht	Copyright 2005- 2008,2013 The Android Open Source Project
memtester	4	GPL-2.0-only	droid.o ml	developer.an com/index.ht	Originally by Simon Kirby <sim@stormix.c om> <sim@neato.or g> Version 2 by Charles Cazabon <charlesc- memtester@pyr opus.ca></charlesc- </sim@neato.or </sim@stormix.c
misc_ctl	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2011 The Android Open Source Project
mksh	1.305	MirOS		developer.an com/index.ht	mksh is covered by The MirOS Licence:
mtp	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (c) 2005-2008,2010 The Android Open Source Project
mtpd	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (c) 2009, The Android Open Source Project
netcfg	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (c) 2005-2008, The Android Open Source Project
netd	1.4.20	Apache-2.0		developer.an com/index.ht	Copyright (C) 2005, 2007- 2008, 2010- 2013 The Android Open Source Project
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хс_ст	x	C_CT_PRJ_RN_AIVI_Scope3.x	13	th Sep 2023			
nv_exchang e	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2012 The Android Open Source Project		
nxppa	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2012 The Android Open Source Project		
omx-core	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2011 The Android Open Source Project		
opengl	Android4.4	MIT AND Apache-2.0	droid.o ml	developer.an com/index.ht	Copyright (c) 2007-2013 The Khronos Group Inc.		
openssl	1.1.0i	OpenSSL		developer.an com/index.ht			
pm	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml		Copyright (c) 2007, The Android Open Source Project		
powermanag er	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml		Copyright (c) 2011, The Android Open Source Project		
ppp	2.4.7	BSD-like	http://developer.an droid.com/index.ht ml		This product includes software developed by Paul Mackerras <paulus@samb a.org></paulus@samb 		
pppd	2.4.3	BSD-like AND Apache-2.0 AND MIT	http://developer.an droid.com/index.ht ml		Copyright (c) 1984-2000 Carnegie Mellon University. All rights reserved.		
reboot	Android4.4	Apache-2.0	http://developer.an C droid.com/index.ht 20 ml A		Copyright (C) 2013 The Android Open Source Project		
ril	Android4.4	Apache-2.0	droid.com/index.ht 2005 ml The Oper		Copyright (c) 2005-2008,2013 The Android Open Source Project		
rild	Android4.4 Apache-2.0 http://developer.an droid.com/index.ht ml		Copyright (c) 2005-2008, The Android Open Source Project				
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schedtest	Android4.4	Anasha 2.0	ml	com/index.ht	2005-2008, 2010 The Android Open Source Project	
schedlest	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright 2008 The Android Open Source Project	
sdcard	Android4.4	Apache-2.0	droid.o ml	developer.an com/index.ht	Copyright (C) 2010 The Android Open Source Project	
sensorservic e	Android4.4	Apache-2.0	droid.o ml	developer.an com/index.ht	Copyright (c) 2010-2012, The Android Open Source Project	
sh	Android4.4	BSD-3-Clause AND BSD-4- Clause-UC	droid.o	developer.an com/index.ht	Copyright (c) 1991, 1993 The Regents of the University of California. All rights reserved. Copyright (c) 1997 Christos Zoulas. All rights reserved. Copyright (c) 2003 The NetBSD Foundation, Inc. All rights reserved. Copyright (c) 1991, 1993 The Regents of the University of California. All rights reserved.	
skia	Android4.4	Apache-2.0 AND OFL-1.1 AND BSD-3-Clause AND SGI-B-2.0	droid.o ml	developer.an com/index.ht	Copyright 2009,2010 The Android Open Source Project	
smart_amp	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2012-2015, The Linux Foundation. All rights reserved.	
softkeymaste r	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2012-2013 The Android Open Source Project	
sonivox	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (c) 2004-2006 Sonic Network Page 303 of 70	



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хс_ст)	(C_CT_PRJ_RN_AIVI_Scope	e3.x	13th Sep 2023			
speex	1.2 rc1	BSD-3-Clause		developer.an com/index.ht	Inc. Copyright (C) 2002-2008 Jean-Marc Valin Copyright (C) 2002 Jean-Marc Valin & David Rowe Copyright (C) 2003 Epic Games Copyright (C) 2003 Epic Games (written by Jean-Marc Valin) Copyright (C) 2004-2006 Epic Games Copyright (C) 2005 Analog Devices Copyright (C) 2005 Jean-Marc Valin, CSIRO, Christopher Montgomery Copyright (C) 2006 David Rowe Copyright (C) 2006 David Rowe Copyright (C) 2006 David Rowe Copyright (C) 2006 David Rowe Copyright (C) 2008 Thorvald Natvig Copyright (c) 2008 Thorvald Natvig Copyright (c) 2008 Thorvald Natvig Copyright (c) 2008 Thorvald Natvig Copyright (c) 2008 Thorvald Natvig Copyright (c) 2008 Thorvald Natvig Copyright (c) 2005-2007, Jean-Marc Valin Copyright (c) 2005-2007, Jean-Marc Valin Copyright (C) 2005-2007, Jean-Marc Valin Copyright (C) 2011 Jyri Sarha, Texas Instruments Copyright 1992, 1993, 1994 by Jutta Degener and Carsten		

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хс_ст	x						
					Bormann, Technische Universitaet Berlin		
sqlite	3.7.11	Public-domain		developer.an com/index.ht			
srec	Android4.4	Apache-2.0	http://c	developer.an com/index.ht	These files are Copyright 2007, 2008 Nuance Communication s, but released under the Apache2 License.		
stlport	5	AFL-3.0 AND BSD-2-Clause AND Apache-2.0 AND MIT		leveloper.an com/index.ht	Copyright 1994 Hewlett-Packard Company Copyright 1996,97 Silicon Graphics Computer Systems, Inc. Copyright 1997 Moscow Center for SPARC Technology.		
SVC	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml		Copyright (c) 2008, The Android Open Source Project		
system- extras	Android4.4	Apache-2.0	http://developer.an droid.com/index.ht ml		Copyright (c) 2005-2008, 2010, The Android Open Source Project		
system- media	Android4.4	Apache-2.0		leveloper.an com/index.ht	Copyright (C) 2011-2014 The Android Open Source Project		
system-vold	Android4.4	Apache-2.0	http://developer.an C droid.com/index.ht 2 ml 2 A		Copyright (C) 2007-2008, 2010-2013 The Android Open Source Project		
tinyalsa	Android4.4	I.4 BSD-3-Clause http://developer.an droid.com/index.ht ml		Copyright 2011,2012 The Android Open Source Project			
toolbox	Android4.4	BSD-2-Clause AND BSD-3- Clause		developer.an com/index.ht	Copyright (c) 1988- 1989,1991,1993 , 1994 The Regents of the		



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tremolo	0.07	BSD-3-Clause	http://developer.an	University of California. All rights reserved. Copyright (c) 2008-2010, 2012-2013 The Android Open Source Project All rights reserved. Copyright (c) 1998-1999 Robert Nordier All rights reserved. Copyright (c) 1999 James Howard and Dag-Erling Copyright (C) 2008-2010 Gabor Kovesdan <gabor@freeb SD.org> All rights reserved. Copyright (C) 2010 Dimitry Andric <dimitry@andric .com> All rights reserved.</dimitry@andric </gabor@freeb 	
tremolo	0.07	BSD-3-Clause	http://developer.an droid.com/index.ht ml	Copyright (C) 2002-2009, Xiph.org Foundation Copyright (C) 2010, Robin Watts for Pinknoise Productions Ltd All rights reserved.	
u-boot15	2015.07- gd46d0cf	GPL-2.0-or-later	http://developer.an droid.com/index.ht ml	(C) Copyright 2000 – 2013 Wolfgang Denk, DENX Software Engineering, wd@denx.de.	
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vb_pga	Android4.4	Apache-2.0	ml	com/index.ht developer.an	2012 The Android Open Source Project Copyright (C)
				com/index.ht	2012 The Android Open Source Project
volte (VideoCall)	Android4.4	Apache-2.0 AND MIT		developer.an com/index.ht	Copyright (C) 2010 The Android Open Source Project Copyright 2004- 2006 Aaron Voisine <aaron@voisine .org></aaron@voisine
watchdogd	Android4.4	Apache-2.0		developer.an com/index.ht	Copyright (C) 2012 The Android Open Source Project
webrtc	Android4.4	BSD-3-Clause AND BSL-1.0 AND MIT		developer.an com/index.ht	Copyright (c) 2011 The Chromium Authors. All rights reserved. Copyright (c) 2011 The WebRTC project authors. All Rights Reserved.
wpa_supplic ant_8	Android4.4	BSD-3-Clause AND MIT		developer.an com/index.ht	Copyright (c) 2002-2013, Jouni Malinen <j@w1.fi> and contributors All</j@w1.fi>

3.7.Supplier : Neusoft

Zlib

1.2.8

zlib

Supplier:Neusoft				
Component	Version	Licens	Home Page	Copyr
		е		ight
Attr	2.4.47	GNU	http://savannah.nongnu.org/projects/attr	
				Page 307 of 70



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		Lesser Genera I Public License v2.1 or later			
AutoOpts	Unspecif ied	BSD 3- clause "New" or "Revise d" License	https://github.com/ShiftMec master/src/libopts	liaProject/gnutls/tree/	
barebox	2016.05. 0	GNU Genera I Public License v2.0 or later	http://github.com/RobertCN	lelson/barebox/	
Berkeley	Unspecif ied	BSD 3- clause "New" or "Revise d" License	http://www.berkeley.edu/		
Berkeley_test	Unspecif ied	BSD 3- clause "New" or "Revise d" License	http://www.berkeley.edu/		
bison	3.0.2, 2.5	GNU Genera I Public License v3.0 or later with Bison excepti on 2.2	http://savannah.gnu.org/pro	pjects/bison/	
Bob Jenkins - Hashing	Unspecif ied	Public Domain	http://www.burtleburtle.net/	bob/index.html	
Boost C++ Libraries - boost	1.59.0	Boost Softwar e License 1.0	http://boost.org/		
BusyBox	1.24.1,1. 23.2	GNU Genera I Public License	http://www.busybox.net		



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		v2.0 or later	
Bzip2	1.0.6	Bzip2 License	http://www.bzip.org/
CANUTIL	4.0.6	GNU Genera I Public License v2.0 or later	http://www.pengutronix.de/software/socket- can/download/canutils/v4.0/
ConvertUTF.h	Unspecif ied	License for Unicod e	http://unicode.org/
crda	3.18	ISC License	http://github.com/idor/crda/
Das U-Boot - Universal Bootloader	Unspecif ied	GNU Genera I Public License v2.0 or later	http://www.denx.de/wiki/U-Boot/WebHome
D-Bus	1.10.2	Acade mic Free License v2.1	http://www.freedesktop.org/wiki/IntroductionToDB us
dbus-glib	0.104	Acade mic Free License v2.1	http://www.freedesktop.org/wiki/Software/dbus
dotzlib	Unspecif ied	Boost Softwar e License 1.0	https://github.com/madler/zlib/tree/master/contrib/ dotzlib
dt-utils	dt- utils_tes t	GNU Genera I Public License v2.0 or later	http://www.pengutronix.de/
eCryptfs - ecryptfs- userspace	108	GNU Genera I Public License v2.0 or later	http://sourceforge.net/projects/ecryptfs/
eudev	Unspecif ied	GNU Genera I Public License v2.0 or	http://github.com/gentoo/eudev/ Page 309 of 70



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		later	
Expat XML Parser -	Unspecif	MIT	http://www.libexpat.org/
libexpat	ied	License	
Filesystem in Userspace	2.9.4	GNU Genera I Public License v2.0 or	http://sourceforge.net/projects/fuse/
		later	
genshellopt	Unspecif ied	GNU Library Genera I Public License v2 or later	https://github.com/ShiftMediaProject/gnutls/tree/ master/src/libopts
gkernel - rng-tools	5	GNU Genera I Public License v2.0 or later	http://sourceforge.net/projects/gkernel/
Glib	2.46.0	GNU Library Genera I Public License v2 or later	https://developer.gnome.org/glib/
GMP - GNU Multiple Precision Arithmetic Library	6.0.0a	GNU Genera I Public License v2.0 or later	http://gmplib.org/
GNOME Network Manager	1.0.10	GNU Genera I Public License v2.0 or later	http://www.gnome.org/projects/NetworkManager/
GNU C Library - glibc	Unspecif ied	GNU Lesser Genera I Public License v2.1 or later	http://www.gnu.org/software/libc/libc.html
GNU Get Text	0.15	GNU Genera I Public License v2.0 or later	http://www.gnu.org/software/gettext/ Page 310 of 708



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GNU gettext	0.18.2	GNU Library Genera I Public License v2 or later	http://s	savannah.gnu.org	/projects/gettext/
GnuTLS	3.3.13	GNU Lesser Genera I Public License v2.1 or later	http://s	savannah.gnu.org	/projects/gnutls/
Gnutls_Affero	Unspecif ied	GNU Affero Genera I Public License v3.0	https:// maste		MediaProject/gnutls/tree/
googlemock	1.7.0	BSD 3- clause "New" or "Revise d" License	http://d	code.google.com/	p/googlemock/
Gstreamer	0.10.36	GNU Library Genera I Public License v2 or later	http://ɛ	gstreamer.freedes	sktop.org/modules/
GSTREAMER PLUGINS-BASE	0.10.36	GNU Lesser Genera I Public License v2.1 or later	base/		sktop.org/src/gst-plugins-
hostapd - IEEE 802.11 AP & IEEE 802.1X/WPA/WPA2/E AP/RADIUS Authenticator	2.5	BSD 3- clause "New" or "Revise d" License	http://ł	nostap.epitest.fi/h	ostapd/
htop	1.0.3	GNU Genera I Public License v2.0 or later	http://ɛ	github.com/hishar	nhm/htop/ Page 311 of



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IDEA_FUNCTION	Unspecif ied	MIT v2 with Ad Clause License	https://github.com/ShiftMed e/master/cipher	iaProject/libgcrypt/tre
imx_usb_loader	Unspecif ied	GNU Lesser Genera I Public License v2.1 or later	http://github.com/boundaryd er/	levices/imx_usb_load
Info-Zip	3.0	Info- ZIP Update d License	http://www.info-zip.org/pub/	infozip/Zip.html
lperf	2.0.5	lperf License	http://sourceforge.net/proje	cts/iperf/
IPTables	1.4.21	GNU Genera I Public License v2.0 or later	http://www.netfilter.org/	
ISC DHCP	4.1.2	ISC License	http://www.isc.org/software/	/dhcp/
iw-ct	3.14	ISC License	http://github.com/greearb/iw	v-ct/
jquery	Unspecif ied	MIT License	http://github.com/jquery/jqu	ery/
keyutils	1.5.9	GNU Genera I Public License v2.0 or later	http://people.redhat.com/~d	
Kmod_Linux	22	GNU Genera I Public License v2.0 or later	https://github.com/lucasden	narchi/kmod
Less	443	Less License	http://www.greenwoodsoftw	are.com/less/
Lib Cap	2.24	BSD 3- clause "New" or "Revise d"	http://sites.google.com/site/	fullycapable/
libboost	Unspecif ied	License Boost Softwar		



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		e		
		License		
		1.0		
libbtserviceapi	Unspecif	Unspec		
	ied	ified		
libbtserviceapi	Unspecif	Robert		
	ied	Bosch		
		Propriet		
		ary		
libetrace	Unspecif	Robert		
	ied	Bosch		
		Propriet		
		ary		
libffi	3.2.1	Libffi	http://sourceware.org/libffi/	
		License		
libgcrypt	Unspecif	GNU	http://www.gnupg.org	
	ied	Lesser		
		Genera		
		l Public		
		License		
		v2.1 or		
	170	later		
libgcrypt_GPL	1.7.6	GNU	https://github.com/ShiftMediaProject/libgcrypt/tre	
		Genera I Public	e/libgcrypt-1.7.6	
		License		
		v2.0 or		
		later		
Libgpg-error Lib	1.20	GNU	http://www.gnupg.org/	
	1.20	Lesser	http://www.ghupg.org/	
		Genera		
		l Public		
		License		
		v2.1 or		
		later		
libgudev	230	GNU	https://wiki.gnome.org/Projects/libgudev	
0		Library		
		Genera		
		I Public		
		License		
		v2 or		
		later		
libmnl	Unspecif	GNU	http://www.netfilter.org/projects/libmnl/	
	ied	Lesser		
		Genera		
		I Public		
		License		
		v2.1 or		
		later		
libmount	Unspecif	GNU	https://github.com/karelzak/util-	
	ied	Lesser	linux/tree/master/libmount	
		Genera		
		l Public License		



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I	Т		1	
		v2.1 or		
		later		
libndp	libndp_t	GNU	http://libndp.org/	
	est1	Lesser		
		Genera		
		I Public		
		License		
		v2.1 or		
		later		
libnftnl	Unspecif	GNU	http://www.netfilter.org/proj	octs/libpftpl/
	ied	Genera	nup://www.neunter.org/proj	
	leu	l Public		
		License		
		v2.0 or		
		later		
libnl - Netlink Library	3.2.25	GNU	http://www.infradead.org/~t	gr/libnl/
		Lesser		
		Genera		
		I Public		
		License		
		v2.1 or		
		later		
libnl - Netlink Library	1.1	GNU	http://www.infradead.org/~t	gr/libnl/
		Lesser		
		Genera		
		l Public		
		License		
		v2.1 or		
101 01		later		(
liboil	0.3.16	BSD 2-	http://liboil.freedesktop.org/	/wiki/
		clause		
		"Simplif		
		ied"		
		License		
libsmartcols	Unspecif	GNU	https://github.com/karelzak	/util-
	ied	Lesser	linux/tree/master/libsmartco	
		Genera		
		I Public		
		License		
		v2.1 or		
		later		
libsocketcan	0.0.10	GNU	http://www.pengutronix.de/	software/libsocketcan/
ibsochettan	0.0.10	Lesser	download/	Solwarchibsockeleary
		Genera	uowinoau/	
		l Public		
		License		
		v2.1 or		
		later		
Libtasn1	3.2	GNU	http://www.gnu.org/softwar	e/libtasn1/
		Lesser		
		Genera		
		I Public		
		License		
		v2.1 or		
				Page 314 of 708



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libtopas tost	Unspecif	later Robert		
libtopas_test	ied			
	lea	Bosch		
		Propriet		
		ary		
libtopasapidtsi	Unspecif	Robert		
	ied	Bosch		
		Propriet		
		ary		
libusb	1.0.18	GNU	http://sourceforge.net/projects/libusb/	
		Lesser		
		Genera		
		I Public		
		License		
		v2.1 or		
		later		
libuuid	Unspecif	BSD 3-	https://github.com/karelzak/util-	
	ied	clause	linux/tree/master/libuuid	
		"New"		
		or		
		"Revise		
		d"		
		License		
libvehiclenetwork	Unspecif	Robert		
	ied	Bosch		
	100	Propriet		
		ary		
libxml2	2.9.4	MIT	http://xmlsoft.org/	
		License		
libzip	1.0.1	BSD 3-	http://www.nih.at/libzip/	
		clause	······································	
		"New"		
		or		
		"Revise		
		d"		
		License		
Linux Kernel	4.0.9	GNU	http://www.kernel.org/	
	4.0.3	Genera		
		l Public		
		License		
		v2.0		
Linux Kernel	4.0.9	only	http://www.korpol.org/	
Linux Kernel	4.0.9	GNU	http://www.kernel.org/	
		Genera		
		l Public		
		License		
		v2.0		
· · - ·		only		
Logging Framework	1.1.2	Apache	http://sourceforge.net/projects/log4cplus/	
for C++		License		
		2.0		
Logging Framework	1.1.2	Apache	http://sourceforge.net/projects/log4cplus/	
for C++		License		
		2.0		



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Logrotate Utility	3.9.1	GNU Genera I Public License v2.0 or later	https://fedorahosted.org/log	grotate/	
rzsz	0.12.20	GNU Genera I Public License v2.0 or later	http://www.ohse.de/uwe/so	ftware/Irzsz.html	
ltmain.sh	Unspecif ied	GNU Genera I Public License v2.0 or later	http://www.gnu.org		
luafilesystem	v_1_6_3	MIT License	http://github.com/keplerproj	ect/luafilesystem/	
Minicom	2.6.2	GNU Genera I Public License v2.0 or later	http://alioth.debian.org/projects/minicom/		
mtd-utils	1.5.2	GNU Genera I Public License v2.0 or later	http://git.infradead.org/mtd-utils.git		
ncurses	5.9	X11 License	https://www.gnu.org/softwa ml	re/ncurses/ncurses.ht	
Nettle	2.7.1	GNU Lesser Genera I Public License v2.1 or later	http://www.lysator.liu.se/~nisse/nettle/		
NYS_Library	Unspecif ied	GNU Library Genera I Public License v2 or later	https://github.com/stevenyla ter/source/user/ebtables-v2		
OpenSSH	7.1p2	BSD 2- clause "Simplif ied" License	http://www.openssh.com/po	ortable.html	
OpenSSL	1.0.2e	OpenS	http://www.openssl.org/		



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хс_ст	XC_CT_PRJ_RN_AIVI_Scope3.x			13th Sep 2023	
		SL Combin ed License			
opkg	0.3.0	GNU Genera I Public License v2.0 or later	https://git.yoctoproject.org/o	cgit/cgit.cgi/opkg/	
PCRE	8.32	PCRE 5 License	http://sourceforge.net/proje	cts/pcre/	
PCSC Lite	Unspecif ied	BSD 3- clause "New" or "Revise d" License	http://pcsclite.alioth.debian.	.org/	
Popt	1.15	X11 License	http://freshmeat.net/project	s/popt/	
ppp - Pauls PPP Package	Unspecif ied	GNU Genera I Public License v2.0 or later	http://ppp.samba.org/ppp/ir	ndex.html	
ppp - Pauls PPP Package	2.4.7	GNU Genera I Public License v2.0 or later	https://ppp.samba.org/inde	x.html	
protobuf	2.5.0	BSD 3- clause "New" or "Revise d" License	http://code.google.com/p/pr	rotobuf/	
ReadLine Front-End	Unspecif ied	GNU Genera I Public License v2.0 or later	https://github.com/issuu/rea mples/rlfe	adline/tree/master/exa	
rsync	2.6.9	GNU Genera I Public License v2.0 or later	http://samba.anu.edu.au/rs	ync/	
S Trace	4.10	BSD 3-	http://sourceforge.net/proje	cts/strace/	



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хс_ст	XC_CT	_PRJ_RN	_AIVI_Scope3.x	13th Sep 2023	
		clause "New" or "Revise			
		d" License		/	
siphash	Unspecif ied	Public Domain	http://github.com/dchest/sip		
smhasher	3090200	Public Domain	http://code.google.com/p/sr	nhasher/	
SQLite	3090200	Public Domain	http://www.hwaci.com/sw/s	qlite/index.html	
squashfs-tools	4.3	GNU Genera I Public License v2.0 or later	http://github.com/plougher/s	squashfs-tools/	
systemd	228	GNU Lesser Genera I Public License v2.1 or later	http://freedesktop.org/wiki/S	Software/systemd/	
Tiny Asynchronous DNS lookup library	Unspecif ied	Beerwa re License	http://sourceforge.net/proje	cts/adns/	
TLSF	1.9	Public Domain	http://tlsf.baisoku.org		
UBIFS	Unspecif ied	GNU Genera I Public License v2.0 or later	http://www.linux-mtd.infrade	ead.org/doc/ubifs.html	
uClibc - A C Library for Embedded Linux	0.9.30.3	GNU Lesser Genera I Public License v2.1 or later	http://www.uclibc.org/		
USB Utils	007	GNU Genera I Public License v2.0 or later	https://www.kernel.org/pub/ /	'linux/utils/usb/usbutils	
USB-DFU	1.0	GNU Genera I Public License v2.0 or	http://www.usb.org/home		



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		later	
usbnet	Unspecif	GNU	http://www.linux-usb.org/usbnet/
	ied	Lesser	
		Genera	
		I Public	
		License	
		v2.1 or	
		later	
Util-Linux	2.27.1	GNU	http://freshmeat.net/projects/util-linux/
		Genera	
		I Public	
		License	
		v2.0 or	
		later	
util-unix-ng	Unspecif	GNU	http://userweb.kernel.org/~kzak/util-linux-ng/
	ied	Genera	
		l Public	
		License	
		v2.0 or	
		later	
Wide_Project	Unspecif	BSD 3-	http://www.wide.ad.jp/index.html
	ied	clause	
	104	"New"	
		or	
		"Revise	
		d"	
		License	
wireless-tools	30	GNU	http://www.hpl.hp.com/personal/Jean_Tourrilhes/
	00	Genera	Linux/Tools.html
		l Public	
		License	
		v2.0 or	
		later	
wpa_supplicant - IEEE	2.5	BSD 3-	http://hostap.epitest.fi/wpa_supplicant/
802.1X, WPA, WPA2,	2.0	clause	http:///www.com/wba_odbhicany
RSN, IEEE 802.11i		"New"	
		or	
		"Revise	
		d"	
		License	
XZ Utils	5.0.4	Public	http://tukaani.org/xz/
		Domain	
yajl	Unspecif	ISC	http://github.com/lloyd/yajl/
ינא נ	ied	License	
yajl	2.1.0	ISC	http://github.com/lloyd/yajl/
յսյ	2.1.0	License	http:// Sittab.com/inoya/yajy
zlib	1.2.8,1.1	zlib	http://www.zlib.net
2110	.3	License	
	.5	LICENSE	



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3.8.Supplier: Nuance

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

3.9. Supplier : OMRON

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

3.10.Supplier : Real_VNC_3_2

Supplier: Real_V		1		
Component	Version	License	Homepage	Copyright
name				
aclocal and	aclocal	Free		Copyright © 1996, 1997,
pkg.m4	1.11.1	Software		1998, 1999, 2000, 2001,
		Foundati		2002, 2003, 2004, 2005,
		on - MIT		2006, 2007, 2008, 2009
		Style		FreeSoftware Foundation,
		License		Inc.
		GPL2.0+		Copyright © 2004 Scott
		wih		James Remnant
		Autoconf		<scott@netsplit.com>.</scott@netsplit.com>
		exception		
AES		Brian		Copyright © 2003 Dr Brian
		Gladman		Gladman, Worcester, UK.
		3-Clause		
		License		
		or GPL		
Android	19.0.0	Apache		Copyright (c) 2005-2008,
Support		License		The Android Open Source
Libraries		2.0		Project
ath9k_faf1dc64_		GNU		Copyright © 2014
backport.patch		General		Rajkumar Manoharan.
		Public		
		License		
		v2.0 or		
		later		
axTLS	1.1.8	BSD 3-		Copyright © 2007
(SHA1 only)		Clause		Cameron Rich. See
		"New" or		section 7.7.1

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	1		Γ	
		"Revised"		
		License		
Base64.java	2.3.7	Public	http://iharder/sourceforge.net/current/jav	
		domain	a/b ase64	
compat-wireless	1027gd4641	GNU		
	6с-р	General		
		Public		
		License		
		v2.0 or		
		later		
EAX		Brian		Copyright © 1998-2010 Dr
		Gladman		Brian Gladman,
		License		Worcester, UK.
Endian		Brian		Copyright © 2003 Dr Brian
Endian		Gladman		Gladman, Worcester, UK.
		3-Clause		
		License		
ovnat	2.0.1	MIT		Copyright © 1998,1999,
expat	2.0.1	License		2000 Thai Open Source
		LICENSE		Software center Ltd and
				Clark Cooper.
				Copyright © 2001, 2002,
				2003, 2004, 2005, 2006
				Expat maintainers.
ExtractMpeg		Apache	http://bigflake.com/mediacodec/ExtractM	Copyright 2013, The
FramesTest.		License	pe gFramesTest.java.txt	Android Open Source
java		2.0		Project
FreeType	2.5.5	FreeType	www.freetype.org	Portions of this software
		Project		are copyright ©
		license		2006 The FreeType
				Project
GCC libstdc++	4.1.2	GNU	http://gcc.gnu.org/libstdc++	Copyright © 1994 to 2009
	4.4.5	General		Free Software Foundation,
		Public		Inc.
		License		
		v2.0 or		
		later		
Internal Android	android2.3.3	Apache		Copyright 2005-2013, The
OS APIs	_r1	License		Android Open Source
	android4.0.1	2.0		Project
	_r1	2.0		
	android4.1.1			
	_r1			
	android4.2.1			
	_r1			
	android4.3_			
	r1			
	android4.4_			
	r1			
JRTPLIB	3.9.1	MIT	http://research.edm.uhasselt.be/~jori/.	
		License		
	1 4 0 4		http://research.edm.uhasselt.be/~jori/.	Copyright © 1999-2011
JThread	1.3.1	MIT License	http://research.eum.unassen.be/~jon/.	Ross Bencina and Phil



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				Burk
keysymdef		MIT open group variant license Digital equipme nt license	/main/28	Copyright © 1987, 1994, 1998 The Open Group. Copyright © 1987 by Digital Equipment Corporation, Maynard, Massachusetts.
libjpegturbo	1.2.1	libjpeg license	http://sourceforge.net/projects/libjpegtur bo/.	Copyright © 1991-2011 Thomas G. Lane, Guido Vollbeding, Pierre Ossman for Cendio AB, and D. R. Commander
libpng	1.2.52	libpng license		Copyright © 2004 and 2006-2014 Glenn Randers-Pehrson
LibTomCrypt	1.16	Public domain	http://libtom.org	
LibTomMath	0.39	Public domain	http://libtom.org	
libudev	142 and 150	GNU Lesser General Public License v2.1 or later	http://www.kernel.org/pub/linux/utils/kern el/hotplug.	Copyright © 2008-2010 Key Sievers <key.sievers@vrfy.org> Copyright © 2009 Alan Jenkins <alanjenkins@tuffmail.co. uk></alanjenkins@tuffmail.co. </key.sievers@vrfy.org>
libupnp (pupnp)	1.6.19	BSD 3- Clause "New" or "Revised" License		Copyright (c) 2000-2003 Intel Corporation. Copyright (c) 2005-2006 Rémi Turboult <r3mi@users.sourceforge. net> Copyright (c) 2006 Michel Pfeiffer and others <virtual_worlds@gmx.de> Copyright (c) 2011-2012</virtual_worlds@gmx.de></r3mi@users.sourceforge.
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				Page 324 of 708



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			Adler. See section 7.1.2.
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3.11.Supplier : Redbend_SWM

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Component	Version	License	Home Page	Copyrigh
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Android - platform - dalvik	2.1_r1	Apache License 2.0	http://developer.and roid.com/index.html	
Android - platform - frameworks - base	4.0.1_r1	Apache License 2.0	http://developer.and roid.com/index.html	
Android - platform - prebuilts - sdk	4.4_r1	Apache License 2.0	http://developer.and roid.com/index.html	
Android SDK Support Libraries	19	Apache License 2.0	https://developer.an droid.com/tools/sup port-library/index.html	
Android SDK Support Libraries	23.1.1	Apache License 2.0	https://developer.an droid.com/tools/sup port-library/index.html	
Drools :: Scorecards	5.5.0.Final	Apache License 2.0	http://mirrors.ibiblio. org/maven2/org/drools/droolsscorecards/	
mongolduu	master- 20121109	Apache License 2.0	http://github.com/tug stugi/mongolduu/	
Stan-for-Android	0.1.0	Apache License 2.0	http://github.com/La bel305/Stan-forAndroid/	
doT	1.0.1	MIT License	http://github.com/ola do/doT/	
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jquery_mobile_rail s	1.3.2	MIT License	http://rubygems.org/gems/jquery_mobile_rail s	
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SyncML C Toolkit	4.0.3	Domain SyncML License	y/cryptography/hash es/sh http://sourceforge.n et/projects/syncmlctoolkit/	a1

3.12.Supplier : Redbend

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7 Zip - LZMA SDK	4.01	Public Domain.	http://sourceforge.net/projects/sevenzip/	
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Android - platform - system - core	4.2	Apache License 2.0	http://developer.android.com/index.html	
bsdiff	4.3	BSDiff license	http://github.com/geraldonetto/bsdiff/	
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Iz4	94	BSD 2- clause "Simplified" License	http://code.google.com/p/lz4/	
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Supplier: Teseo				
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3.14.Supplier : SK_telecom

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SQLite	Unspe cified	Public domian	http://www.sqlite.org/		
Sunrise/set calculator	Unspe cified	Public domian	https://stjarnhimlen.se/com p/sunriset.c		
tiny-AES128- C	20141 218	Public domian	http://github.com/kokke/tin y-AES128-C/		

http://code.google.com/p/w

http://www.zlib.net/

osĥ/

3.15.Node Modules Components

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3.	Appar mor	2.13. 10co 020p	2bv2	GPL-2.0 <u>Other licenses:</u> LGPL-2.1 Public-domain X11 MIT GPL-2.0+-with-libtool-exception GPL V2 or later with autoconf exception GPL V3 or later with autoconf exception FSFAP FSFUL BSD-3-Clause	Copyright 1992-2018 Free Software Foundation, Inc. Copyright (c) Christian Boltz 2018 Copyright (c) 2017 SUSE LINUX GmbH, Nuernberg, Germany. Copyright (c) 2017 Rosetta Contributors an Canonical Ltd 2017 Copyright (c) 2009 Dulmandakh Sukhbaata Copyright (c) 2008 Dominic Reynolds. Copyright (c) 2006 SUSE Linux Products GmbH, Nuernberg, Germany. Copyright (c) 2006 Novell, Inc. All Rights Reserved. Copyright (c) 1999, 2000, 2001, 2002, 2003 2004, 2005, 2006, 2007 NOVELL (All rights reserved) Copyright (C) 2013 Kshitij Gupta Copyright (C) 2009 John Dong Copyright (C) 2009 Dulmandakh Sukhbaata Copyright (C) 2007 Andreas Gruenbacher Copyright (C) 2006 SuSE Linux Products GmbH, Nuernberg Copyright (C) 2006 SuSE Linux Products GmbH, Nuernberg Copyright (C) 1994 X Consortium Copyright (C) 1992-1996, 1998-2012 Free Software Foundation, Inc.		
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Version 1, February 1989

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6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions? Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

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V3.0	03/08/2004	-Initial Version for sqlite3	
V3.1	16/09/2004	-Implemented getXXXXField using	sqlite3 functions
	-Adde	d CppSQLiteDB3::tableExists()	
V3.2	01/07/2005	-Fixed execScalar to handle a NUL	L result
12	2/07/2007 -Adde	d CppSQLiteDB::IsAutoCommitOn()	
	-Adde	d int64 functions to CppSQLite3Quer	у
	-Adde	d Name based parameter binding to	CppSQLite3Statement.
V3.3	02/14/2019		
	-Adde	ed CppSQLite3Statement(sqlite3* p	DB,sqlite3_stmt* pVM);
	C	ppSQLite3Statement::bind(int nParar	n, const sqlite_int64 nValue);
	С	ppSQLite3Statement::bind(int nParar	n, const uint64_t nValue);
	C	ppSQLite3Statement::Step()	
	C	ppSQLite3Statement::DoTransaction	(const char *str)
	C	ppSQLite3Statement::BeginTransact	ion()
	С	ppSQLite3Statement::CommitTransa	ction()
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			Page 523 of 708



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5. Time Zone Database



ICU uses the public domain data and code derived from Time Zone Database for its time zone support. The ownership of the TZ database is explained in BCP 175: Procedure for Maintaining the Time Zone Database section 7.

7. Database Ownership

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

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



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Release	Deriv	/ed	Year	0	wner	GPL-
1	from			C	ompatik	ole? (1)
0.9.0 thru	1.2	19	991-19	95 C	WI	yes
1.3 thru 1.	5.2 1.2		1995-1	999	CNRI	yes
1.6	1.5.2	200	00	CNRI	nc)
2.0	1.6	200	0	BeOp	en.com	no
1.6.1	1.6	200	01	CNRI	ye	es (2)
2.1	2.0+1.6	.1 2	001	PSI	Fı	סו
2.0.1	2.0+1.0	5.1 2	2001	PS	F	yes
2.1.1	2.1+2.0	0.1 2	2001	PS	F	yes
2.1.2	2.1.1	20	02	PSF	ye	es
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Modified files

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

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

4.106.zlib license

zlib.h -- interface of the 'zlib' general purpose compression library

version 1.2.4, March 14th, 2010

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5.19 acrchiver - 2.1.1

Description: a streaming interface for archive generation Available under the license: MIT License Copyright (c): 2012-2014 Chris Talkington Terms and Conditions: Refer Section 2.3

5.20 async - 2.6.3

Description: Higher-order functions and common patterns for asynchronous code Available under the license: MIT License

Copyright (c): 2010-2018 Caolan McMahon

Terms and Conditions: Refer Section 2.3

5.21 bluebird - 3.5.5

Description: Full featured Promises/A+ implementation with exceptionally good performance Available under the license: MIT License Copyright (c): 2013-2018 Petka Antonov Terms and Conditions: Refer Section 2.3 **6.22 cross-npm-spawn-1.1.1**

Description: Cross-platform NPM spawn Available under the license: MIT License Copyright (c): 2016 Leeroy Brun Terms and Conditions: Refer Section 2.3

5.23 extract-zip- 1.7.0



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

Available under the license: BSD-2-Clause License

Copyright (c): 2014 Max Ogden

Terms and Conditions: Refer Section 2.8

5.24 fs-extra - 2.1.2

Description: fs-extra contains methods that aren't included in the vanilla Node.js fs package Available under the license: MIT License Copyright (c): 2011-2017 JP Richardson Terms and Conditions: Refer Section 2.3

5.25 iconv-lite - 0.4.24

Description: Convert character encodings in pure javascript. Available under the license: MIT License Copyright (c): 2011 Alexander Shtuchkin Terms and Conditions: Refer Section 2.3

5.26 is-online - 7.0.0

Description: Check if the internet connection is up Available under the license: MIT License Copyright (c): Sindre Sorhus <sindresorhus@gmail.com> Terms and Conditions: Refer Section 2.3



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5.27 json-rpc2 – 1.0.2

Description: JSON-RPC 2.0 server and client library, with HTTP, TCP and Websocket endpoints Available under the license: MIT License Copyright (c): 2009 Eric Florenzano, Ryan Tomayko Terms and Conditions: Refer Section 2.3

5.28 lodash - 4.17.15

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

numbers, objects, strings, etc

Available under the license: MIT License

Copyright (c): JS Foundation

Terms and Conditions: Refer Section 2.3

5.29 progress-stream - 2.0.0

Description: Read the progress of a stream Available under the license: BSD-2-Clause License Copyright (c): Tobias Baunbæk <freeall@gmail.com> Terms and Conditions: Refer Section 2.8

5.30 scp2-0.5.0

Description: A pure javascript scp program based on ssh2 Available under the license: MIT License Copyright (c): 2013 Hsiaoming Yang Terms and Conditions: Refer Section 2.3



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5.31 ssh2 - 0.5.5

Description: SSH2 client and server modules written in pure JavaScript for node.js Available under the license: MIT License Copyright (c): Brian White Terms and Conditions: Refer Section 2.3

5.32 sshpk - 1.16.1

Description: A library for finding and using SSH public keyss

Available under the license: MIT License

Copyright (c): Joyent, Inc

Terms and Conditions: Refer Section 2.3

5.33 targz - 1.0.1

Description: TarGz for NodeJS Available under the license: MIT License Copyright (c): Miska Kaipiainen <miska.kaipiainen@gmail.com> Terms and Conditions: Refer Section 2.3

5.34 vboxmanage.js - 1.0.6

Description: A wrapper for VirtualBox CLI with Promises Available under the license: MIT License Copyright (c): 2016 Daniel Cohen Gindi



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Terms and Conditions: Refer Section 2.3

5.35 xml2js - 0.4.23

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

Available under the license: MIT License

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

Terms and Conditions: Refer Section 2.3

5.36 requirejs - 2.1.1

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

Available under the license: MIT License

Copyright (c): jQuery Foundation

Terms and Conditions: Refer Section 2.3

5.37 semver - 2.1.0

Description: The semantic version parser used by npm Available under the license: ISC License Copyright (c): Isaac Z. Schlueter Terms and Conditions: Refer Section 2.9

5.38 SlowAES - 0.1a1

Description: Implementations of AES in pure scripting languages Available under the license: Apache License



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Copyright (c): Josh Davis

Terms and Conditions: Refer Section 2.6

5.39 which - 1.0.5

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

Available under the license: ISC License

Copyright (c): Isaac Z. Schlueter

Terms and Conditions: Refer Section 2.3

5.40 eventemitter2-1.0.0

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

Available under the license: MIT License

Copyright (c): 2016 Paolo Fragomeni

Terms and Conditions: Refer Section 2.3

5.41 moment.js - 2.24.0

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

Available under the license: MIT License

Copyright (c): JS Foundation

Terms and Conditions: Refer Section 2.3

5.42 bootstrap – 2.3.1



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Description: Front-end framework for developing responsive, mobile first projects on the web Available under the license: MIT License Copyright (c): 2011-2018 Twitter, Inc.

Copyright (c): 2011-2018 The Bootstrap Authors

Terms and Conditions: Refer Section 2.3

5.43 flexbuffers - 1.7.1

Description: FlatBuffers is an efficient cross platform serialization library for games and

other memory constrained apps. It allows you to directly access serialized data

without unpacking/parsing it first, while still having great forwards/backwards

compatibility.

Available under the license: Apache 2.0

Copyright (c):

Terms and Conditions: Refer Section 2.6

5.44 etch - 1.4.0

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

Available under the license: Apache license, v2

Copyright (C) 2012 BMW Car IT GmbH

Terms and Conditions: Refer Section 2.6

5.45 CppSQLite -C++ Wrapper for SQLite - 3.2

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

Available under the license: CPOL 1.02

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

Terms and Conditions: Refer Section 2.16



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5.46 afl-fuzz-2.31b

Description: Tool for in-process and out-of-process (fork) coverage-guided fuzz testing (fuzzing). Similar to libFuzzer. Available under the license: Apache 2.0 License Copyright (c): Terms and Conditions: Refer Section 2.6

5.47 android craxy linker

Description: Fork of the Android NDK crazy linker. Available under the license: BSD 3 License Copyright (c): 2014 The Chromium Authors Terms and Conditions: Refer 2.26

5.48 platform_system_core

Description: libsync helper library. Available under the license: Apache 2.0 License Copyright (c): Terms and Conditions: Refer 2.6

5.49 angle-master_2014-10-03

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

Available under the license: BSD 3 License



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

Terms and Conditions: Refer Section 2.5

5.50 Blink

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

Available under the license: LGPL 2.1

Copyright (c): 2014 The Chromium Authors.

Terms and Conditions: Refer Section - 2.14

5.51 boringssl-master

Description: This is BoringSSL, a fork of OpenSSL. See https://www.imperialviolet.org/2014/06/20/boringssl.html Available under the license: BSD 3 License Copyright (c): Terms and Conditions: Refer Section - 2.22

5.52 breakpad-origin/chrome_53

Description: An open-source multi-platform crash reporting system URL: https://chromium.googlesource.com/breakpad/breakpad Available under the license: BSD 3, Apple PSL 2.0 and Apache 2.0 License Copyright (c): 2006, Google Inc. Terms and Conditions: Refer Section 2.5, 2.24, 2.6



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Source Code :

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

5.53 brotli-v0.4.0

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

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

to decode WOFF 2.0 fonts.

Available under the license: MIT License

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

Terms and Conditions: Refer Section 2.3

5.54 catapult-0.1.0-alpha-1

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

Available under the license: BSD 3 License

Copyright (c): 2015 The Chromium Authors

Terms and Conditions: Refer Section 2.5

5.55 cacheinvalidation-master_2014-09-04

Description: This is the API to talk to the Google Cache Invalidation service, used by the

invalidations consumed by Sync, Enterprise Policy, and other services. It was

previously hosted at http://code.google.com/p/google-cache-invalidation-api/

but was merged into the Chromium repository at r342.

Available under the license: Apache 2.0 License

Copyright (c):

Terms and Conditions: Refer Section 2.6

5.56 cld2-master_2017-12-14

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



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

Available under the license: Apache 2.0 License

Copyright (c):

Terms and Conditions: Refer Section 2.6

5.57 fontconfig-2.11.0

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

Available under the license: MIT License

Copyright (c): 2012 Google, Inc.

Terms and Conditions: Refer Section 2.3

5.58 compact_encoding_detection

Description: Compact Encoding Detection(CED for short) is a library written in C++ that

scans given raw bytes and detect the most likely text encoding.

Available under the license: Apache 2.0 License

Copyright (c): 2016 Google Inc.

Terms and Conditions: Refer Section 2.6

5.59 cld3-2f6624f0a6d6fd8f76bdcae38558c73d23ebec1e

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

Available under the license: Apache 2.0 License

Copyright (c): 2016 Google Inc.

Terms and Conditions: Refer Section 2.6

5.60 coveragepy-coverage-4.0.3

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



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Available under the license: Apache 2.0 License

Copyright (c): 2004-2015 Ned Batchelder.

Terms and Conditions: Refer Section 2.6

5.61 crashpad-electron-v1.6.12

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

Available under the license: Apache 2.0 License

Copyright (c):

Terms and Conditions: Refer Section 2.6

5.62 dmg_fp-master_2014-05-19

Description: David M. Gay's floating point routines Available under the license: MIT License Copyright (c): 1991, 2000, 2001 by Lucent Technologies. Terms and Conditions: Refer Section 2.27

5.63 external-chromium_org-sdch-open-vcdiff-mips-kk-4.4.2_r1.m1

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

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

Available under the license: Apache 2.0 License

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

Terms and Conditions: Refer Section 2.6

5.64 flac-1.3.1

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

before sending to Google servers for speech recognition.

Available under the license: BSD 3 License



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

Terms and Conditions: Refer Section 2.5

5.65 flatbuffers-v1.2.0

Description: FlatBuffers is an efficient cross platform serialization library for games and other memory constrained apps. It allows you to directly access serialized data without unpacking/parsing it first, while still having great forwards/backwards compatibility. Available under the license: Apache 2.0 License Copyright (c): 2014 Google Inc Terms and Conditions: Refer Section 2.6

5.66 freetype2-VER-2-8-1

Description:This library is required for the browser to compress and encode recorded audio before sending to Google servers for speech recognition Available under the license: Custom License (Freetype Project License) Copyright (c): Terms and Conditions: Refer Section - 2.12

5.67 glslang-GoogleGlslang20160218

Description: An OpenGL and OpenGL ES shader front end and validator. Available under the license: MIT License Copyright (c): 2015-2016 The Khronos Group Inc. Terms and Conditions: Refer Section 2.28

5.68 googlemock-release-1.7.0

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



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

Available under the license: BSD 3 License

Copyright (c): 2008, Google Inc.

Terms and Conditions: Refer Section 2.5

5.69 googletest-release-1.7.0

Description: Google's framework for writing C++ tests on a variety of platforms (Linux, Mac OS X, Windows, Windows CE, Symbian, etc). Available under the license: BSD 3 License Copyright (c): 2008, Google Inc. Terms and Conditions: Refer Section 2.5

5.70 grpc-v1.4.7

Description: Chrome's version of the C-version of the gRPC ibrary. Available under the license: BSD 3 License Copyright (c): 2015, Google Inc. Terms and Conditions: Refer Section 2.5

5.71 harfbuzz-1.3.1

Description: This is harfbuzz-ng, a new implementation of harfbuzz with a different API from the old one. Available under the license: MIT License Copyright (c): 2010,2011,2012 Google, Inc. Terms and Conditions: Refer Section 2.29

5.72 iccjpeg-32.0.1700.102

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

Original author is Tom Lane, from the IJG group.



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We include the relevant part of the original IJG licensing term in the file LICENSE. Available under the license: Custom License Copyright (c): 1991-1998, Thomas G. Lane.

Terms and Conditions: Refer Section - 2.13

5.73 icu-release-56-1

Description: The source code of ICU 56.1 for C/C++. Available under the license: ICU license Copyright (c): 1995-2015 International Business Machines Corporation and others. Terms and Conditions: Refer Section 2.17

5.74 jsoncpp-svn-release-0.6.0-rc2

Description: The libjingle/webrtc/liblouis_nacl uses jsoncpp for signaling message serialization and deserialization. This library is also shipped in NaCl SDK and used in several examples. Available under the license: MIT License Copyright (c): 2007-2010 Baptiste Lepilleur Terms and Conditions: Refer Section 2.3

5.75 khronos_headers

Description: This package contains header files for the EGL and OpenGL ES APIs from Khronos. They are used for compiling code against these APIs as well as for generating the GL binding initialization logic. Available under the license: MIT License, SGI Free Software License B Copyright (c): 2007-2010 The Khronos Group Inc. Terms and Conditions: Refer Section 2.3, 2.15



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5.76 leveldb-v1.20

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

FileSystem API implementation and others.

Available under the license: BSD 3 License

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

Terms and Conditions: Refer Section 2.5

5.77 libaddressinput-master_2014-10-07

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

semantics for many countries around the world.

Available under the license: Apache 2.0 License

Copyright (c):

Terms and Conditions: Refer Section 2.6

5.78 libevent-release-1.4.15-stable

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

Available under the license: BSD 3 License

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

Terms and Conditions: Refer Section 2.5

5.79 dist-llvm-master_2010-04-15

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

libraries.

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

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

Terms and Conditions: Refer 2.7



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5.80 libjpeg-turbo-1.4.90

Description: This libjpeg-turbo also added a new file

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

externally visible functions to chromium_* so that we can avoid conflicts that

arise when system libraries attempt to use our libjpeg.

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

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

Copyright (c):

Terms and Conditions: Refer Section 2.30, 2.5, 2.1

5.81 libphonenumber-v8.9.8

Description: International Phone Number Library

Available under the license: Apache 2.0 License

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

Terms and Conditions: Refer Section 2.6

5.82 libpng-v1.6.22beta03

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

Available under the license: lib png License

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

Terms and Conditions: Refer Section 2.11

5.83 libsrtp-v1.5.2

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

Available under the license: BSD 3 License

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

Terms and Conditions: Refer Section 2.5



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5.84 libvpx-v1.6.0

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

Available under the license: BSD 3 License

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

Terms and Conditions: Refer Section 2.5

5.85 libwebm-libwebm-1.0.0.27

Description: libwebm is a library to read and write WebM files. It's used by MediaStream Recording API to multiplex encoded audio and video into a WebM container. Only the writing parts are used for this purpose, the rest is not compiled. Available under the license: BSD 3 License Copyright (c): 2010, Google Inc. All rights reserved. Terms and Conditions: Refer Section 2.5

5.86 libwebp-v0.5.1

Description: WebP is an image format that does both lossy and lossless compression of digital photographic images. WebP consists of a codec based on VP8, that Google open-sourced in May 2010 and a container based on RIFF. Webmasters, web developers and browser developers can use WebP to compress, archive and distribute digital images more efficiently. Available under the license: BSD 3 License Copyright (c): 2010, Google Inc. Terms and Conditions: Refer Section 2.31



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5.87 libxml2-v2.9.5

Description: libxml2 from libxml.org.

Available under the license: MIT License

Copyright (c): 1998-2012 Daniel Veillard.

Terms and Conditions: Refer Section 2.3

5.88 libXNVCtrl-master_2018-03-01

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

Available under the license: MIT License

Copyright (c): 2008 NVIDIA

Terms and Conditions: Refer Section 2.3

5.89 libxslt-v1.1.29-rc2

Description: libxslt from libxml.org. Available under the license: MIT License Copyright (c): 1998-2012 Daniel Veillard.

Terms and Conditions: Refer Section 2.3

5.90 libyuv-v1.0.0

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

Available under the license: BSD 3 License

Copyright (c): 2011 The LibYuv Project Authors.

Terms and Conditions: Refer Section 2.5

5.91 linux_syscall_support

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



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Available under the license: BSD 3 License

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

Terms and Conditions: Refer Section 2.5

5.92 minigbm

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

Available under the license: BSD 3 License

Copyright (c): 2014 The Chromium OS Authors.

Terms and Conditions: Refer Section 2.5

5.93 modp_b64-master_2014-10-08

Description: The modp_b64.c file was modified to remove the inclusion of modp's config.h and to fix compilation errors that occur under VC8. The file was renamed modp_b64.cc to force it to be compiled as C++ so that the inclusion of basictypes.h could be possible. Available under the license: BSD 3 License Copyright (c): 2005, 2006 Nick Galbreath Terms and Conditions: Refer Section 2.5

5.94 mojo-master_2014-10-08

Description: The Mojo Public API is a binary stable API to the Mojo system. It consists of support for a number of programming languages (with a directory for each support language), some "build" tools and build-time requirements, and interface definitions for Mojo services (specified using an IDL). Note that there are various subdirectories named tests/. These contain tests of the code in the enclosing directory, and are not meant for use by Mojo applications.

Available under the license: BSD 3 License



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Copyright (c): 2014 The Chromium Authors.

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5.95 mt19937ar-32.0.1700.102

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

Matsumoto's Mersenne Twister pseudorandom number generator.

Available under the license: BSD 3 License

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

Terms and Conditions: Refer Section 2.5

5.96 native_client-master_2014-10-16

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

Available under the license: BSD 3 License

Copyright (c): 2008, Google Inc.

Terms and Conditions: Refer Section 2.5

5.97 openh264-v1.4.0

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

Available under the license: BSD 2 License

Copyright (c): 2013, Cisco Systems

Terms and Conditions: Refer Section 2.8

5.98 opus-v1.1.3

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

Available under the license: BSD 3 License

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



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Jean-Marc Valin, Timothy B. Terriberry,

CSIRO, Gregory Maxwell, Mark Borgerding,

Erik de Castro Lopo

Terms and Conditions: Refer Section 2.5

5.99 ots-v5.0.0

Description:

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

Available under the license: BSD 3 License

Copyright (c): 2009 The Chromium Authors.

Terms and Conditions: Refer Section 2.5

5.100 ozone-wayland-45.0.2454.37

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

Available under the license: BSD 3 License

Copyright (c): 2013 Intel Corporation.

Terms and Conditions: Refer Section 2.5

5.101 pdfium-chromium/3440

Description: PDF generation and rendering library.

Available under the license: BSD 3 License

Copyright (c): 2014 PDFium Authors.

Terms and Conditions: Refer Section 2.5

5.102 protobuf-v3.0.0-beta-3

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

Available under the license: BSD 3 License

Copyright (c): 2008 Google Inc.



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5.103 qcms

Description: Contains support for applying an ICC color profile to an image. The code is originally based on tinycms, re-written by Mozilla for better security and performance. This copy is a source-drop from Mozilla on March 13, 2012. Available under the license: MIT License Copyright (c): 2009 Mozilla Corporation 1998-2007 Marti Maria Terms and Conditions: Refer Section 2.3

5.104 re2-2016-02-01

Description: RE2 is a fast, safe, thread-friendly alternative to backtracking regular expression engines like those used in PCRE, Perl, and Python. Available under the license: BSD 3 License Copyright (c): 2009 The RE2 Authors. Terms and Conditions: Refer Section 2.5

5.105 SevenZip-LZMA-15.14

Description: This contains a part of LZMA SDK 15.14. Available under the license: Public Domain Copyright (c): Terms and Conditions: Refer Section 2.33

5.106 shaderc-v2018.0

Description: A collection of SPIR-V related tools/libraries. Available under the license: Apache 2.0 License Copyright (c):



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5.107 skia-v1.60.0

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

Available under the license: BSD 3 License

Copyright (c): 2011 Google Inc.

Terms and Conditions: Refer Section 2.5

5.108 smhasher-trunk_2014-04-22

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

test suite.

Available under the license: MIT License

Copyright (c): 2011 Google, Inc.

Terms and Conditions: Refer Section 2.3

5.109 snappy-v1.1.0

Description: Compression library used by LevelDB.

Available under the license: BSD 3 License

Copyright (c): 2011 Google Inc.

Terms and Conditions: Refer Section 2.5

5.110 uriparser-uriparser-0.8.0

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

Available under the license: BSD 3 License

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

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5.111 SPIRV-Tools-spirv-1.1-rev1

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

SPIR-V modules.

Available under the license: MIT License

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

Terms and Conditions: Refer Section 2.3

5.112 sqlite-version-3.8.4

Description:

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

Available under the license: Public Domain

Copyright (c):

Terms and Conditions: Refer Section 2.10

5.113 tcmalloc-master_2012-05-20

Description: Chromium's locally patched copy of tcmalloc.

Available under the license: BSD 3 License

Copyright (c): 2005, Google Inc.

Terms and Conditions: Refer Section 2.5

5.114 url_parse

Description: The file url_parse.cc is based on nsURLParsers.cc from Mozilla.

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

Copyright (c): 2007, Google Inc.

Terms and Conditions: Refer Section - 2.5, 2.4

5.115 usrsctp-0.9.3.0

Description: The usrsctplib provides implementation of SCTP protocol which fully supports RFC 2960.

Available under the license: BSD 2 License



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Copyright (c): 2001, 2002 Cisco Systems, Inc, 2002-12 Randall R. Stewart, 2002-12 Michael Tuexen Terms and Conditions: Refer Section 2.8

5.116 v8-5.6.309.1

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

Available under the license: BSD 3 License

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

Terms and Conditions: Refer Section 2.5

5.117 VulkanTools-sdk-1.0.8.0

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

will just be taken from the build system.

Available under the license: MIT License

Copyright (c): 2015 Valve Corporation

Terms and Conditions: Refer Section 2.3

5.118 wayland-protocols

Description: wayland-protocols contains Wayland protocols that adds functionality not

available in the Wayland core protocol. Such protocols either adds

completely new functionality, or extends the functionality of some other

protocol either in Wayland core, or some other protocol in

wayland-protocols.

Available under the license: MIT License

Copyright (c): 2008-2013 Kristian Høgsberg

2010-2013 Intel Corporation

2013 Rafael Antognolli

- 2013 Jasper St. Pierre
- 2014 Jonas Ådahl



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2014 Jason Ekstrand

2014-2015 Collabora, Ltd.

2015 Red Hat Inc.

Terms and Conditions: Refer Section 2.3

5.119 WebGL-master_2015-01-08

Description: This is a snapshot of the public webgl conformance tests directory on the Github server. Available under the license: MIT License Copyright (c): Terms and Conditions: Refer Section 2.3

5.120webrtc-builds-9686

Description: WebRTC provides real time voice and video processing functionality to enable the implementation of PeerConnection/MediaStream. Available under the license: BSD 3 License Copyright (c): 2011, The WebRTC project authors. Terms and Conditions: Refer Section 2.5

5.121 woff2-a15a8ab86b934cf436f8fac4a8a11ddf8b59d792

Description: The reference implementation of the WOFF 2.0 web font compression format (http://www.w3.org/TR/WOFF2/). Available under the license: MIT License Copyright (c): Terms and Conditions: Refer Section 2.3



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5.122 zlib-1.2.8

Description: General purpose compression library Available under the license: Zlib License Copyright (c):1995-2010 Jean-loup Gailly and Mark Adler Terms and Conditions: Refer Section 2.1

5.123 boost_1_64_0

Description: Boost is a set of libraries for the C++ Available under the license: BSL 1.0 License Copyright (c): Terms and Conditions: Refer Section 2.2

5.124 libjson-c-0.10

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

Available under the license: MIT License

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

Terms and Conditions: Refer Section 2.3

5.125 pkg-config-generator

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

Available under the license: MIT License

Copyright (c): 2016 Nii Mante

Terms and Conditions: Refer Section 2.3

5.126 uriparser-0.8.5

Description: RFC 3986 URI parsing library Available under the license: BSD 3 License



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Copyright (c): 2007, Weijia Song

2007, Sebastian Pipping

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5.127 xmlsec1-1.2.24

Description: XML Security with nss(certificates) Available under the license: MPL v1.1 Copyright (c):2002-2016 Aleksey Sanin Terms and Conditions: Refer Section 2.25

5.128 Tornado-4.1

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

Available under the license: Apache License 2.0

Copyright (c): 2017, Obigo

Terms and Conditions: Refer Section 2.20

5.129 Ujson-1.35

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

Available under the license: BSD 3 License

Copyright (c): 2014, Electronic Arts Inc.

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5.130 Python-2.7.9

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

Available under the license: Python License v2.0

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



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2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019 Python Software Foundation Terms and Conditions: Refer Section 2.19

5.131 Backports-3.4.0.2

Description: Backports provide greater sanity, and a bit more organization, in the Package Index. Available under the license: Python License v2.0 Copyright (c):2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019 Python Software Foundation Terms and Conditions: Refer Section 2.18

5.132 babel-runtime - 6.26.0

Description: The compiler for writing next generation JavaScript. Available under the license: MIT License Copyright ©: 2014-present Sebastian McKenzie and other contributors Terms and Conditions: Refer Section 2.3

5.133 core-js-2.5.1

Description: Modular standard library for JavaScript Available under the license: MIT License Copyright (c): 2014-2020 Denis Pushkarev Terms and Conditions: Refer Section 2.3

5.134 css-loader-0.25.0

Description: The css-loader interprets @import and url() like import/require() and will resolve them. Available under the license: MIT License Copyright ©: JS Foundation and other contributors Terms and Conditions: Refer Section 2.3



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5.135 vue-loader-13.7.2

Description: Webpack loader for Vue Single-File Components Available under the license: MIT License Copyright ©: 2015-present Yuxi (Evan) You Terms and Conditions: Refer Section 2.3

5.136 Blackmagic DeckLink SDK 9.6.4-master_2012-10-10

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

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

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

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

tasks

Available under the license: BSL

Copyright (c): 2014 Blackmagic Design

Terms and Conditions: Refer Section 2.2

5.137 aes-js - 3.1.2

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

Available under the license: MIT License

Copyright (c): 2015 Richard Moore

Terms and Conditions: Refer Section 2.3

5.138 mosquitto-v1.6.7

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

URL : https://mosquitto.org/

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



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Copyright (c): 2010-2014 Roger Light <roger@atchoo.org> Terms and Conditions: Refer Section 2.23

5.139 atob - 2.1.2

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

Available under the license: MIT License , Apache 2.0 License

Copyright (c): 2015 AJ ONeal

Terms and Conditions: Refer Section 2.3, 2.6

5.140 cli-spinners - 1.3.1

Description: Spinners for use in the terminal Available under the license: MIT License Copyright (c): Sindre Sorhus <sindresorhus@gmail.com> (https://sindresorhus.com) Terms and Conditions: Refer Section 2.3

5.141 vue-i18n

Description: Internationalization plugin for Vue.js Available under the license: MIT License Copyright (c): 2016 kazuya kawaguchi Terms and Conditions: Refer Section 2.3

5.142 vue-router

Description: The official router for Vue.js Available under the license: MIT License Copyright (c): 2013-present Evan You Terms and Conditions: Refer Section 2.3



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5.143 vue-style-loader

Description: A fork based on style-loader Available under the license: MIT License Copyright (c): JS Foundation and other contributors Terms and Conditions: Refer Section 2.3

5.144 webpack

Description: A module bundler

Available under the license: MIT License

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5.145 cli-table-redemption - 1.0.1

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

Available under the license: MIT License

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

Terms and Conditions: Refer Section 2.3

5.146 co - 4.6.0

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

Available under the license: MIT License

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

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5.147 commander - 2.20.3

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

Available under the license: MIT License



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

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5.148 fs-extra - 3.0.1

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

Available under the license: MIT License

Copyright (c): 2011-2017 JP Richardson

Terms and Conditions: Refer Section 2.3

5.149 inquirer - 3.3.0

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

Available under the license:MIT License

Copyright (c): 2012 Simon Boudrias

Terms and Conditions: Refer Section 2.3

5.150 ora - 1.4.0

Description: Elegant terminal spinner

Available under the license: MIT License

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

Terms and Conditions: Refer Section 2.3

5.151 thunkify - 2.1.2

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

Available under the license: MIT License

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5.152 unzip - 0.1.11

Description: Streaming cross-platform unzip tool written in node.js. Available under the license: MIT License Copyright (c): 2012 - 2013 Near Infinity Corporation Terms and Conditions: Refer Section 2.3

5.153 xmldom - 0.1.31

Description: A JavaScript implementation of W3C DOM for Node.js, Rhino and the browser Available under the license: MIT License Copyright (c): None Terms and Conditions: Refer Section 2.3

5.154 xpath - 0.0.24

Description: DOM 3 XPath 1.0 implemention and helper for JavaScript, with node.js support. Available under the license: MIT License Copyright (c): 2018 Cameron McCormack Terms and Conditions: Refer Section 2.3

5.155 npm-cli-login - 0.1.1

Description: Allows to log in to NPM without STDIN, STDOUT Available under the license: Apache 2.0 License Copyright (c): None Terms and Conditions: Refer Section 2.6

5.100 ozone-wayland-45.0.2454.376.156 selenium-webdriver-master_2015-05-28

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



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Available under the license: Apache 2.0 License Copyright (c): 2007-2009 Google Inc. 2007-2009 WebDriver committers Terms and Conditions: Refer Section 2.6

5.157 glog-v0.3.4

Description: libsync helper library Available under the license: BSD 3 License Copyright (c): 2010 The Chromium Authors Terms and Conditions: Refer Section 2.5

5.158 freetype-freetype-2.6.1

Description: FreeType library. Available under the license: FreeType License (FTL) Copyright (c): 1996-2015 by David Turner, Robert Wilhelm, and Werner Lemberg Terms and Conditions: Refer Section 2.12

5.159 jsoncpp-1.6.2

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

tests and demonstration applications, are licensed under the following

conditions...

Available under the license: MIT License

Copyright (c): 2007-2010 Baptiste Lepilleur

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5.160 brackets - 1.11

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



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Available under the license: MIT License

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5.161 bootstrap-toggle - 2.2.2

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

Available under the license: MIT License

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

5.162Toastr

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

Available under the license: MIT License

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

5.163sqlite-version-3.7.6.2

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

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

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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.

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in



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

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

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

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

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

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.



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

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

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.



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

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

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

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



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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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

For example, on rare occasions, there may be a special need to



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

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

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

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

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

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

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

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

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

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

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.



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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.



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

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

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

b) Use a suitable shared library mechanism for linking with the
 Library. A suitable mechanism is one that (1) uses at run time a
 copy of the library already present on the user's computer system,
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will operat	te properly with a modified version of the library, if				
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- V3.0 03/08/2004 -Initial Version for sqlite3
- V3.1 16/09/2004 -Implemented getXXXXField using sqlite3 functions

-Added CppSQLiteDB3::tableExists()

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

12/07/2007 -Added int64 functions to CppSQLite3Query

-Throw exception from CppSQLite3DB::close() if error

-Trap above exception in CppSQLite3DB::~CppSQLite3DB()

-Fix to CppSQLite3DB::compile() as provided by Dave Rollins.

-sqlite3_prepare replaced with sqlite3_prepare_v2

-Added Name based parameter binding to CppSQLite3Statement.

V3.3 02/14/2019 -Added CppSQLite3Statement(__sqlite3* pDB, __sqlite3_stmt* pVM); Page 650 of 708



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

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

CppSQLite3Statement::Step()

CppSQLite3Statement::DoTransaction(const char *str)

CppSQLite3Statement::BeginTransaction()

CppSQLite3Statement::CommitTransaction()

CppSQLite3Statement::RollbackTransaction()

CppSQLite3DB::getDB()

CppSQLite3DB::RestoreOrBackupDb() by OBIGO

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

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

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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



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

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1.3 thru 1.	5.2 1.2		1995-	1999	CN	RI	yes
1.6	1.5.2	20	00	CN	RI	no	
2.0	1.6	200	00	BeC	Open.c	com no	D
1.6.1	1.6	20	01	CN	RI	yes (2)
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2.1.1	2.1+2.	0.1	2001	I	PSF	yes	5
2.1.2	2.1.1	20	002	PS	SF	yes	
2.1.3	2.1.2	20	002	PS	SF	yes	
2.2 and at	oove 2. ²	1.1	200	1-no	w P	SF	yes

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Modified files

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

- gen.py Fix coroutines in cython-compiled code

- gen_test.py Add a complier directive to get gen_test (mostly) working when cythonized

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

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

- util.py Make ArgReplacer compatible with cython.

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

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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.



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TO DO	Plans for future IJG releases.	
Other docum	nentation files in the distribution are:	
User docum	entation:	
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.	
	t Overview of the JPEG library's internal structure.	
structure.tx		

FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

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

OVERVIEW

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

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

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

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

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



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

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

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

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, Itmain.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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understand the innards of the JPEG software.

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

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

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

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



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titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm. A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.

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

ARCHIVE LOCATIONS



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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files".

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

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

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FILE FORMAT WARS

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format! (In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)



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

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