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XC-CP

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XC-CP_INF_RN_AIVI_Scope3.x

05-06-2025

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Version 3.1, 31 March 2009

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Version 2, June 1991

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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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.

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:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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



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

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

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

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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.

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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.

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

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

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

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

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

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

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

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

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

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

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

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If 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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the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

signature of Ty Coon, 1 April 1990Ty Coon, President of Vice That's all there is to it!

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

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litehtml	Unspecif ied			

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AutoOpts	Unsp ecifie d	BSD 3- claus e "New " or "Revi sed" Lice nse	https://github.com/ShiftMediaProj ect/gnutls/tree/master/src/libopts	https://github.com/ShiftMediaProject/gnutls/ tree/master/src/libopts
barebox	2016. 05.0	GNU Gen eral Publi c Lice nse v2.0 or later	http://github.com/RobertCNelson /barebox/	http://github.com/RobertCNelson/barebox/
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Berkeley_test	Unsp ecifie d	BSD 3- claus e "New " or "Revi sed" Lice nse	http://www.berkeley.edu/	http://www.berkeley.edu/
bison	3.0.2, 2.5	GNU Gen eral Publi c Lice nse v3.0 or later with Biso n exce ption 2.2	http://savannah.gnu.org/projects/ bison/	http://savannah.gnu.org/projects/bison/
Bob Jenkins - Hashing	Unsp ecifie d	Publi c Dom ain	http://www.burtleburtle.net/bob/in dex.html	http://www.burtleburtle.net/bob/index.html
Boost C++ Libraries - boost	1.59. 0	Boos t Soft ware Lice nse 1.0	http://boost.org/	http://boost.org/
BusyBox	1.24. 1,1.2 3.2	GNU Gen eral Publi c Lice nse	http://www.busybox.net	http://www.busybox.net

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		v2.0 or		
Bzip2	1.0.6	later Bzip 2 Lice	http://www.bzip.org/	http://www.bzip.org/
		nse		
CANUTIL	4.0.6	GNU	http://www.pengutronix.de/softwa	http://www.pengutronix.de/software/socket-
		Gen	re/socket- can/download/canutils/v4.0/	can/download/canutils/v4.0/
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		later		
ConvertUTF.h	Unsp	Lice	http://unicode.org/	http://unicode.org/
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crda	3.18	ISC	http://github.com/idor/crda/	http://github.com/idor/crda/
	0.10	Lice		
		nse		
Das U-Boot -	Unsp	GNU	http://www.denx.de/wiki/U-	http://www.denx.de/wiki/U-Boot/WebHome
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D-Bus	1.10.	Acad	http://www.freedesktop.org/wiki/l	http://www.freedesktop.org/wiki/Introduction
	2	emic	ntroductionToDBus	ToDBus
		Free		
		Lice		
		nse		
dhuc alih	0.104	v2.1 Acad	http://www.froodooktop.org/wiki/	http://www.freedesktop.org/wiki/Software/d
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		Lice nse v2.1		
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dt-utils	dt- utils_t est	GNU Gen eral Publi c Lice nse v2.0 or later	http://www.pengutronix.de/	http://www.pengutronix.de/
eCryptfs - ecryptfs- userspace	108	GNU Gen eral Publi c Lice nse v2.0 or later	http://sourceforge.net/projects/ec ryptfs/	http://sourceforge.net/projects/ecryptfs/
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genshellopt	Unsp ecifie d	GNU Libra ry Gen eral Publi c Lice nse v2 or later	https://github.com/ShiftMediaProj ect/gnutls/tree/master/src/libopts	https://github.com/ShiftMediaProject/gnutls/ tree/master/src/libopts
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googlemock	1.7.0	BSD 3- claus e "New " or "Revi sed" Lice nse	http://code.google.com/p/google mock/	http://code.google.com/p/googlemock/
Gstreamer	0.10. 36	GNU Libra ry Gen eral Publi c Lice nse v2 or later	http://gstreamer.freedesktop.org/ modules/	http://gstreamer.freedesktop.org/modules/
GSTREAMER PLUGINS- BASE	0.10. 36	GNU Less er Gen	http://gstreamer.freedesktop.org/ src/gst-plugins-base/	http://gstreamer.freedesktop.org/src/gst- plugins-base/

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htop	1.0.3	GNU Gen eral Publi c Lice nse v2.0 or later	http://github.com/hishamhm/htop /	http://github.com/hishamhm/htop/
IDEA_FUNCTI ON	Unsp ecifie d	MIT v2 with Ad Clau se Lice nse	https://github.com/ShiftMediaProj ect/libgcrypt/tree/master/cipher	https://github.com/ShiftMediaProject/libgcry pt/tree/master/cipher
imx_usb_loade r	Unsp ecifie d	GNU Less er Gen eral Publi c Lice	http://github.com/boundarydevice s/imx_usb_loader/	http://github.com/boundarydevices/imx_usb _loader/

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Info-Zip	3.0	Info- ZIP Upd ated Lice nse	http://www.info- zip.org/pub/infozip/Zip.html	http://www.info-zip.org/pub/infozip/Zip.html
lperf	2.0.5	lperf Lice nse	http://sourceforge.net/projects/ip erf/	http://sourceforge.net/projects/iperf/
IPTables	1.4.2	GNU Gen eral Publi c Lice nse v2.0 or later	http://www.netfilter.org/	http://www.netfilter.org/
ISC DHCP	4.1.2	ISC Lice nse	http://www.isc.org/software/dhcp/	http://www.isc.org/software/dhcp/
iw-ct	3.14	ISC Lice nse	http://github.com/greearb/iw-ct/	http://github.com/greearb/iw-ct/
jquery	Unsp ecifie d	MIT Lice nse	http://github.com/jquery/jquery/	http://github.com/jquery/jquery/
keyutils	1.5.9	GNU Gen eral Publi c Lice nse v2.0 or later	http://people.redhat.com/~dhowe Ils/keyutils/	http://people.redhat.com/~dhowells/keyutils /
Kmod_Linux	22	GNU Gen	https://github.com/lucasdemarchi /kmod	https://github.com/lucasdemarchi/kmod

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Lib Cap	2.24	nse BSD 3- claus e "New " or "Revi sed" Lice nse	http://sites.google.com/site/fullyc apable/	http://sites.google.com/site/fullycapable/
libboost	Unsp ecifie d	Boos t Soft ware Lice nse 1.0		
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		rietar		
		у		
libffi	3.2.1	Libffi	http://sourceware.org/libffi/	http://sourceware.org/libffi/
		Lice		
		nse		
libgcrypt	Unsp	GNU	http://www.gnupg.org	http://www.gnupg.org
	ecifie	Less		
	d	er		
		Gen		
		eral		
		Publi		
		С		
		Lice		
		nse		
		v2.1		
		or		
	470	later		
libgcrypt_GPL	1.7.6	GNU	https://github.com/ShiftMediaProj	https://github.com/ShiftMediaProject/libgcry
		Gen	ect/libgcrypt/tree/libgcrypt-1.7.6	pt/tree/libgcrypt-1.7.6
		eral Publi		
		C		
		Lice		
		nse		
		v2.0		
		or		
		later		
Libgpg-error	1.20	GNU	http://www.gnupg.org/	http://www.gnupg.org/
Lib		Less		
		er		
		Gen		
		eral		
		Publi		
		с		
		Lice		
		nse		
		v2.1		
		or		
		later		
libgudev	230	GNU	https://wiki.gnome.org/Projects/li	https://wiki.gnome.org/Projects/libgudev
		Libra	bgudev	
		ry		
		Gen		
	1	eral		

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		Publi c Lice nse v2 or later		
libmnl	Unsp ecifie d	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://www.netfilter.org/projects/li bmnl/	http://www.netfilter.org/projects/libmnl/
libmount	Unsp ecifie d	GNU Less er Gen eral Publi c Lice nse v2.1 or later	https://github.com/karelzak/util- linux/tree/master/libmount	https://github.com/karelzak/util- linux/tree/master/libmount
libndp	libnd p_tes t1	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://libndp.org/	http://libndp.org/

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libnftnl	Unsp ecifie d	GNU Gen eral Publi c Lice nse v2.0 or later	http://www.netfilter.org/projects/li bnftnl/	http://www.netfilter.org/projects/libnftnl/
libnl - Netlink Library	3.2.2 5	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://www.infradead.org/~tgr/libn l/	http://www.infradead.org/~tgr/libnl/
libnl - Netlink Library	1.1	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://www.infradead.org/~tgr/libn l/	http://www.infradead.org/~tgr/libnl/
liboil	0.3.1	BSD 2- claus e "Sim plifie d" Lice nse	http://liboil.freedesktop.org/wiki/	http://liboil.freedesktop.org/wiki/

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libsmartcols	Unsp ecifie d	GNU Less er Gen eral Publi c Lice nse v2.1 or later	https://github.com/karelzak/util- linux/tree/master/libsmartcols	https://github.com/karelzak/util- linux/tree/master/libsmartcols
libsocketcan	0.0.1 0	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://www.pengutronix.de/softwa re/libsocketcan/download/	http://www.pengutronix.de/software/libsock etcan/download/
Libtasn1	3.2	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://www.gnu.org/software/libta sn1/	http://www.gnu.org/software/libtasn1/
libtopas_test	Unsp ecifie d	Rob ert Bosc h Prop rietar y		

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libtopasapidtsi	Unsp ecifie d	Rob ert Bosc h Prop rietar		
libusb	1.0.1 8	y GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://sourceforge.net/projects/lib usb/	http://sourceforge.net/projects/libusb/
libuuid	Unsp ecifie d	BSD 3- claus e "New " or "Revi sed" Lice nse	https://github.com/karelzak/util- linux/tree/master/libuuid	https://github.com/karelzak/util- linux/tree/master/libuuid
libvehiclenetwo rk	Unsp ecifie d	Rob ert Bosc h Prop rietar y		
libxml2	2.9.4	MIT Lice nse	http://xmlsoft.org/	http://xmlsoft.org/
libzip	1.0.1	BSD 3- claus e "New	http://www.nih.at/libzip/	http://www.nih.at/libzip/

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		" or "Revi sed" Lice nse		
Logging Framework for C++	1.1.2	Apac he Lice nse 2.0	http://sourceforge.net/projects/lo g4cplus/	http://sourceforge.net/projects/log4cplus/
Logging Framework for C++	1.1.2	Apac he Lice nse 2.0	http://sourceforge.net/projects/lo g4cplus/	http://sourceforge.net/projects/log4cplus/
Logrotate Utility	3.9.1	GNU Gen eral Publi c Lice nse v2.0 or later	https://fedorahosted.org/logrotate /	https://fedorahosted.org/logrotate/
lrzsz	0.12. 20	GNU Gen eral Publi c Lice nse v2.0 or later	http://www.ohse.de/uwe/software /lrzsz.html	http://www.ohse.de/uwe/software/lrzsz.html
ltmain.sh	Unsp ecifie d	GNU Gen eral Publi c Lice nse v2.0	http://www.gnu.org	http://www.gnu.org

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		or		
		later		
luafilesystem	v_1_	MIT	http://github.com/keplerproject/lu	http://github.com/keplerproject/luafilesyste
	6_3	Lice	afilesystem/	m/
		nse		
Minicom	2.6.2	GNU	http://alioth.debian.org/projects/	http://alioth.debian.org/projects/minicom/
		Gen	minicom/	
		eral		
		Publi		
		С		
		Lice		
		nse		
		v2.0		
		or		
mated utile	1 5 0	later	http://git.infrodoc.d.ov/wetd	http://wit.infrodo.od.org/actal.utile_sit
mtd-utils	1.5.2	GNU Gen	http://git.infradead.org/mtd- utils.git	http://git.infradead.org/mtd-utils.git
		eral	ulis.git	
		Publi		
		C		
		Lice		
		nse		
		v2.0		
		or		
		later		
ncurses	5.9	X11	https://www.gnu.org/software/nc	https://www.gnu.org/software/ncurses/ncur
		Lice	urses/ncurses.html	ses.html
		nse		
Nettle	2.7.1	GNU	http://www.lysator.liu.se/~nisse/n	http://www.lysator.liu.se/~nisse/nettle/
		Less	ettle/	
		er		
		Gen		
		eral		
		Publi		
		C		
		Lice nse		
		v2.1		
		or		
		later		
NYS_Library	Unsp	GNU	https://github.com/stevenylai/rali	https://github.com/stevenylai/ralink_sdk/blo
	ecifie	Libra	nk_sdk/blob/master/source/user/	b/master/source/user/ebtables-v2.0.9-
	d	ry	ebtables-v2.0.9-2/getethertype.c	2/getethertype.c
	1	Gen	_, _, _, pere	, o

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		eral Publi c Lice nse v2 or later		
OpenSSH	7.1p2	BSD 2- claus e "Sim plifie d" Lice nse	http://www.openssh.com/portabl e.html	http://www.openssh.com/portable.html
OpenSSL	1.0.2 e	Ope nSS L Com bine d Lice nse	http://www.openssl.org/	http://www.openssl.org/
opkg	0.3.0	GNU Gen eral Publi c Lice nse v2.0 or later	https://git.yoctoproject.org/cgit/cg it.cgi/opkg/	https://git.yoctoproject.org/cgit/cgit.cgi/opkg /
PCRE	8.32	PCR E 5 Lice nse	http://sourceforge.net/projects/pc re/	http://sourceforge.net/projects/pcre/
PCSC Lite	Unsp ecifie d	BSD 3- claus e "New " or	http://pcsclite.alioth.debian.org/	http://pcsclite.alioth.debian.org/

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Popt	1.15	"Revi sed" Lice nse X11 Lice	http://freshmeat.net/projects/popt /	http://freshmeat.net/projects/popt/
ppp - Pauls PPP Package	Unsp ecifie d	nse GNU Gen eral Publi c Lice nse v2.0 or later	http://ppp.samba.org/ppp/index.h tml	http://ppp.samba.org/ppp/index.html
ppp - Pauls PPP Package	2.4.7	GNU Gen eral Publi c Lice nse v2.0 or later	https://ppp.samba.org/index.html	https://ppp.samba.org/index.html
protobuf	2.5.0	BSD 3- claus e "New " or "Revi sed" Lice nse	http://code.google.com/p/protobu f/	http://code.google.com/p/protobuf/
ReadLine Front-End	Unsp ecifie d	GNU Gen eral Publi c Lice nse	https://github.com/issuu/readline/ tree/master/examples/rlfe	https://github.com/issuu/readline/tree/maste r/examples/rlfe

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		v2.0		
		or		
		later		
rsync	2.6.9	GNU Gen eral Publi c Lice	http://samba.anu.edu.au/rsync/	http://samba.anu.edu.au/rsync/
		nse v2.0 or later		
S Trace	4.10	BSD 3- claus e "New " or "Revi sed" Lice nse	http://sourceforge.net/projects/str ace/	http://sourceforge.net/projects/strace/
siphash	Unsp ecifie d	Publi c Dom ain	http://github.com/dchest/siphash/	http://github.com/dchest/siphash/
smhasher	3090 200	Publi c Dom ain	http://code.google.com/p/smhash er/	http://code.google.com/p/smhasher/
SQLite	3090 200	Publi c Dom ain	http://www.hwaci.com/sw/sqlite/i ndex.html	http://www.hwaci.com/sw/sqlite/index.html
squashfs-tools	4.3	GNU Gen eral Publi c Lice nse v2.0	http://github.com/plougher/squas hfs-tools/	http://github.com/plougher/squashfs-tools/

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		or		
		later		
systemd	228	GNU	http://freedesktop.org/wiki/Softwa	http://freedesktop.org/wiki/Software/system
		Less	re/systemd/	d/
		er		
		Gen		
		eral		
		Publi		
		c		
		Lice		
		nse		
		v2.1		
		or		
		later		
Tiny	Unsp	Beer	http://sourceforge.net/projects/ad	http://sourceforge.net/projects/adns/
Asynchronous	ecifie	ware	ns/	http://sourceforge.net/projects/auns/
DNS lookup	d	Lice	113/	
library	u	nse		
TLSF	1.9	Publi	http://tlsf.baisoku.org	http://tlsf.baisoku.org
1L31	1.5	C	http://tisi.baisoku.org	http://lisi.baisoka.org
		Dom		
		ain		
UBIFS	Unsp	GNU	http://www.linux-	http://www.linux-
UDIF 3	ecifie	Gen	mtd.infradead.org/doc/ubifs.html	mtd.infradead.org/doc/ubifs.html
	d	eral	mu.mmaueau.org/uoc/ubits.mm	mu.imadead.org/doc/ubits.num
	u	Publi		
		C		
		Lice		
		nse		
		v2.0		
		or later		
uClibc - A C	0.9.3	GNU	http://www.uclibc.org/	http://www.uclibc.org/
Library for	0.3	Less	http://www.ucibe.org/	http://www.uclibc.org/
Embedded	0.5	er		
Linux		Gen		
LITUX		eral		
		erai Publi		
		c Lice		
		nse		
		v2.1		
		or later		
		I lotor		

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USB Utils	007	GNU Gen eral Publi c Lice nse v2.0 or later	https://www.kernel.org/pub/linux/ utils/usb/usbutils/	https://www.kernel.org/pub/linux/utils/usb/u sbutils/
USB-DFU	1.0	GNU Gen eral Publi c Lice nse v2.0 or later	http://www.usb.org/home	http://www.usb.org/home
usbnet	Unsp ecifie d	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://www.linux-usb.org/usbnet/	http://www.linux-usb.org/usbnet/
Util-Linux	2.27. 1	GNU Gen eral Publi c Lice nse v2.0 or later	http://freshmeat.net/projects/util- linux/	http://freshmeat.net/projects/util-linux/

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util-unix-ng	Unsp ecifie d	GNU Gen eral Publi c Lice nse v2.0 or later	http://userweb.kernel.org/~kzak/u til-linux-ng/	http://userweb.kernel.org/~kzak/util-linux- ng/
Wide_Project	Unsp ecifie d	BSD 3- claus e "New " or "Revi sed" Lice nse	http://www.wide.ad.jp/index.html	http://www.wide.ad.jp/index.html
wireless-tools	30	GNU Gen eral Publi c Lice nse v2.0 or later	http://www.hpl.hp.com/personal/J ean_Tourrilhes/Linux/Tools.html	http://www.hpl.hp.com/personal/Jean_Tourr ilhes/Linux/Tools.html
wpa_supplican t - IEEE 802.1X, WPA, WPA2, RSN, IEEE 802.11i	2.5	BSD 3- claus e "New " or "Revi sed" Lice nse	http://hostap.epitest.fi/wpa_suppl icant/	http://hostap.epitest.fi/wpa_supplicant/
XZ Utils	5.0.4	Publi c Dom ain	http://tukaani.org/xz/	http://tukaani.org/xz/

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yajl	Unsp ecifie d	ISC Lice nse	http://github.com/lloyd/yajl/	http://github.com/lloyd/yajl/
yajl	2.1.0	ISC Lice nse	http://github.com/lloyd/yajl/	http://github.com/lloyd/yajl/
zlib	1.2.8, 1.1.3	zlib Lice nse	http://www.zlib.net	http://www.zlib.net

3.5.Supplier: Nuance

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

3.6.Supplier : OMRON

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

3.7.Supplier : Redbend_SWM

	Supplier: Redbend_SWM						
Component	Version	Licens	Home Page	Copyright			
		е					
action	0.1.1	Apache License 2.0	http://repo1.maven. org/maven2/com/nin g/metrics.action/	http://repo1.maven. org/maven2/com/nin g/metrics.action/			
Android - platform - dalvik	2.1_r1	Apache License 2.0	http://developer.and roid.com/index.html	http://developer.and roid.com/index.html			

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Android -	4.0.1 r1	Apache	http://developer.and	http://developer.and
platform -	_	License	roid.com/index.html	roid.com/index.html
frameworks -		2.0		
base				
Android -	4.4_r1	Apache	http://developer.and	http://developer.and
platform -		License	roid.com/index.html	roid.com/index.html
prebuilts - sdk		2.0		
Android SDK	19	Apache	https://developer.an	https://developer.an
Support		License	droid.com/tools/sup port-	droid.com/tools/sup port-
Libraries		2.0	library/index.html	library/index.html
Android SDK	23.1.1	Apache	https://developer.an	https://developer.an
Support		License	droid.com/tools/sup port-	droid.com/tools/sup port-
Libraries		2.0	library/index.html	library/index.html
Drools ::	5.5.0.Fi	Apache	http://mirrors.ibiblio.	http://mirrors.ibiblio.
Scorecards	nal	License	org/maven2/org/drools/droolsscore	org/maven2/org/drools/droolsscore
		2.0	cards/	cards/
mongolduu	master-	Apache	http://github.com/tug	http://github.com/tug
	201211	License	stugi/mongolduu/	stugi/mongolduu/
	09	2.0		
Stan-for-	0.1.0	Apache	http://github.com/La bel305/Stan-	http://github.com/La bel305/Stan-
Android		License	forAndroid/	forAndroid/
		2.0		
doT	1.0.1	MIT	http://github.com/ola do/doT/	http://github.com/ola do/doT/
		License		
jquery	2.0.3	MIT	http://github.com/jqu ery/jquery/	http://github.com/jqu ery/jquery/
		License		
jquery_mobile	1.3.2	MIT	http://rubygems.org/gems/jquery_m	http://rubygems.org/gems/jquery_m
_rails		License	obile_rails	obile_rails
SafeSlinger-	1.8.3-	MIT	http://github.com/Sa	http://github.com/Sa
Android	messen	License	feSlingerProject/Saf eSlinger-	feSlingerProject/Saf eSlinger-
	ger		Android/	Android/
OpenSSL	Generic	OpenS	http://www.openssl.org/	http://www.openssl.org/
	Version	SL		
		Combin		
		ed		
		License		
CRC32	Generic	Public	http://web.mit.edu/	http://web.mit.edu/
MIT.edu	Version	Domain		
SHA-1 in C	9/1/200	Public	http://www.mirrors.w	http://www.mirrors.w
	1	Domain	iretapped.net/securit	iretapped.net/securit
			y/cryptography/hash es/sha1	y/cryptography/hash es/sha1
SyncML C	4.0.3	SyncM	http://sourceforge.n	http://sourceforge.n
Toolkit		L	et/projects/syncmlctoolkit/	et/projects/syncmlctoolkit/
	1	License		

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3.8.Supplier : Redbend

			Supplier: Redbend	
Component	Versi on	License	Home Page	Copyright
7 Zip - LZMA SDK	9.2	Public Domain	http://www.7-zip.org/sdk.html	http://www.7-zip.org/sdk.html
7 Zip - LZMA SDK	4.01	Public Domain.	http://sourceforge.net/projects/sev enzip/	http://sourceforge.net/projects/sevenzip /
Android - platform - bootable - recovery	4.2	Apache License 2.0	http://developer.android.com/inde x.html	http://developer.android.com/index.html
Android - platform - system - core	4.2	Apache License 2.0	http://developer.android.com/inde x.html	http://developer.android.com/index.html
bsdiff	4.3	BSDiff license	http://github.com/geraldonetto/bs diff/	http://github.com/geraldonetto/bsdiff/
CMarkup	11.05	Acquire d CMarku p Develop er License	http://www.firstobject.com/dn_mar kup.htm	http://www.firstobject.com/dn_markup.h tm
CRC table (Autogen)	Has no versio n numb er	Public Domain	http://en.wikipedia.org/wiki/Cyclic _redundancy _check	http://en.wikipedia.org/wiki/Cyclic_redu ndancy _check
Filesystem in Userspace	2.8.5	BSD 2- clause "Simplifi ed" License	http://sourceforge.net/projects/fus e/	http://sourceforge.net/projects/fuse/
Filesystem in Userspace	2.9.3	GNU Lesser General Public License	http://sourceforge.net/projects/fus e/	http://sourceforge.net/projects/fuse/

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		v2.1 or later		
FreeBSD	2.2.2	BSD 4- clause "Original " or "Old" License	http://www.freebsd.org	http://www.freebsd.org
Freescale Semiconducto r CodeWarrior Development Studio for MPC55xx/MP C56xx	2.10 speci al editio n	Commer cial license		
GNU C Library · glibc	2.2.4	GNU Lesser General Public License v2.1 or later	http://www.gnu.org/software/libc/li bc.html	http://www.gnu.org/software/libc/libc.ht ml
Lawicel CAN USB sample code	0.1.8	Lawicel CAN USB sample code license	http://www.can232.com/?page_id =75	http://www.can232.com/?page_id=75
ibdivsufsort	2.0.0	MIT License	http://code.google.com/p/libdivsuf sort/	http://code.google.com/p/libdivsufsort/
z4	94	BSD 2- clause "Simplifi ed" License	http://code.google.com/p/lz4/	http://code.google.com/p/lz4/
LZO real-time data compression library	2.04	Acquire d commer cial license	http://www.oberhumer.com/opens ource/lzo/	http://www.oberhumer.com/opensource /lzo/
MSDN Sample Code	vs.85	Microsof t Limited Public	http://msdn.microsoft.com/en- US/windows/	http://msdn.microsoft.com/en- US/windows/

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		License (Ms- LPL)		
NetBSD	6	BSD 3- clause "New" or "Revise d" License	http://www.netbsd.org/	http://www.netbsd.org/
UCL Data Compression Library	1.03	Acquire d commer cial license	http://www.oberhumer.com/opens ource/ucl/	http://www.oberhumer.com/opensource /ucl/
XMLFoundatio n	Apr- 14	MIT License	http://xmlfoundation.codeplex.co m/	http://xmlfoundation.codeplex.com/
zlib	1.2.3	zlib License	http://www.zlib.net	http://www.zlib.net

3.9. Supplier : Node Modules Components

Name of OSS Component	Version of OSS Component	Name and Version of License	Home page
buffer-crc32	0.2.5	MIT	https://github.com/brianloveswords/buffer- crc32
dbus-native	0.2.0	MIT	https://github.com/sidorares/node-dbus
dbus-proxy	0.0.0- unreleasable	NA	NA
abstract-socket	1.0	MIT	https://github.com/saghul/node- abstractsocket
bindings	1.2.1	MIT	https://github.com/TooTallNate/node- bindings
nan	2.4.0	MIT	https://github.com/nodejs/nan#readme
1to2	1.0.0	MIT	NA
event-stream	3.3.4	MIT	http://github.com/dominictarr/event-stream
duplexer	0.1	MIT	https://github.com/Raynos/duplexer

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from	0.3	MIT	https://github.com/dominictarr/from
map-stream	0.0	NA	http://github.com/dominictarr/map-stream
pause-stream	0.0.11	MIT, Apache2	https://github.com/dominictarr/pause-stream
split	0.3.3	MIT	http://github.com/dominictarr/split
stream-combiner	0.0.4	MIT	https://github.com/dominictarr/stream- combiner
through	2.3.8	MIT	https://github.com/dominictarr/through
put	0.0.6	MIT/X11	https://github.com/substack/node-put
xml2js	0.14	NA	https://github.com/Leonidas-from-XIV/node- xml2js
sax	1.2.1	ISC	https://github.com/isaacs/sax-js#readme
iconv-lite	0.4.15	MIT	https://github.com/ashtuchkin/iconv-lite
jbinary	2.2	MIT	https://github.com/jDataView/jBinary
es6-promise	2.0.1	MIT	NA
es6-promise	2.0.1	MIT	https://github.com/jakearchibald/ES6- Promises
jdataview	2.5.0	WTFPL	http://jDataView.github.io/
request	2.53.0	Apache-2.0	https://github.com/request/request
aws-sign2	0.5.0	NA	https://github.com/mikeal/aws-sign
bl	0.9.4	MIT	https://github.com/rvagg/bl
readable-stream	1.0.33	MIT	https://github.com/isaacs/readable-stream
core-util-is	1.0.1	MIT	https://github.com/isaacs/core-util-is
inherits	2.0.1	ISC	https://github.com/isaacs/inherits
isarray	0.0.1	MIT	https://github.com/juliangruber/isarray
string_decoder	0.10.31	MIT	https://github.com/rvagg/string_decoder
caseless	0.9.0	BSD	https://github.com/mikeal/caseless
combined-stream	0.0.7	NA	https://github.com/felixge/node-combined- stream
delayed-stream	0.0.5	NA	https://github.com/felixge/node-delayed- stream
forever-agent	0.5.2	NA	https://github.com/mikeal/forever-agent
form-data	0.2.0	MIT	https://github.com/felixge/node-form-data
async	0.9.0	MIT	https://github.com/caolan/async
hawk	NA	./LICENSE	NA
hawk	2.3.1	BSD	https://github.com/hueniverse/hawk
boom	2.6.1	BSD	https://github.com/hapijs/boom

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cryptiles	2.0.4	BSD	https://github.com/hapijs/cryptiles
hoek	2.11.0	BSD	https://github.com/hapijs/hoek
sntp	1.0.9	BSD	https://github.com/hueniverse/sntp
http-signature	0.10.1	MIT	https://github.com/joyent/node-http- signature/
asn1	0.11	NA	NĂ
assert-plus	0.5	NA	https://github.com/mcavage/node-assert- plus
ctype	0.5.3	NA	https://github.com/rmustacc/node-ctype
isstream	0.1	MIT	https://github.com/rvagg/isstream
json-stringify-safe	5.0.0	BSD	https://github.com/isaacs/json-stringify-safe
mime-types	2.0.9	MIT	https://github.com/jshttp/mime-types
mime-db	1.7.0	MIT	https://github.com/jshttp/mime-db
node-uuid	1.4.2	MIT	https://github.com/broofa/node-uuid
oauth-sign	0.6.0	NA	https://github.com/mikeal/oauth-sign
qs	2.3.3	BSD	https://github.com/hapijs/qs
stringstream	0.0.4	MIT	https://github.com/mhart/StringStream
tough-cookie	0.12.1	MIT	https://github.com/goinstant/tough-cookie
punycode	1.3.2	MIT	https://mths.be/punycode
tunnel-agent	0.4.0	NA	https://github.com/mikeal/tunnel-agent
mkdirp	0.5.0	MIT	https://github.com/substack/node-mkdirp
minimist	0.0.8	MIT	https://github.com/substack/minimist
xml2js	0.4.5	MIT	https://github.com/Leonidas-from-XIV/node- xml2js
sax	0.6.1	BSD	https://github.com/isaacs/sax-js
xmlbuilder	2.5.1	MIT	http://github.com/oozcitak/xmlbuilder-js
lodash	3.0	MIT	https://lodash.com/

3.10. Supplier : Miscellaneous components:

SI. No	Component	Version	Home Page	License
1	Android SDK Support Libraries – 19	23.1.1	https://developer.android.com/tools/supp ort-library/index.html	Apache License 2.0
2	OpenSSL		http://www.openssl.org/	OpenSSL Combined License
3	CRC32		http://web.mit.edu/	Public Domain
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	XC-CP

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4	SHA-1 in C		http://www.mirrors.wiretapped.net/securit y/cryptography/hashes/sha1	Public Domain
5	Android - platform - bootable – recovery	4.0.1_r1	http://developer.android.com/index.html	Apache License 2.0
6	Android - platform - bootable – recovery	5.0.0_r1	http://developer.android.com/index.html	Apache License 2.0
7	Android - platform - bootable – recovery	2.3 r1	http://developer.android.com/index.html	Apache License 2.0
8	File system in Userspace	2.8.7	http://sourceforge.net/projects/fuse/	BSD 2-clause "Simplified" License
9	Iz4 Compression algorithm	r111	http://code.google.com/p/lz4/	BSD 2-clause "Simplified" License
10	Android -platform - system - core/libmincrypt		https://android.googlesource.com/platfor m/system/core/+/master/libmincrypt	BSD 3-clause "New" or "Revised" License
11	lucy search engine – lucy	0.6.0	http://sourceforge.net/projects/lucy- search/	BSD 3-clause "New" or "Revised" License
12	NetBSD	1.4	http://www.netbsd.org/	BSD 3-clause "New" or "Revised" License
13	Open BSD	4.5	http://www.openbsd.org	BSD 3-clause "New" or "Revised" License
15	Test-SQLite-blob	trunk- 20120916- svn	http://code.google.com/p/test-sqlite-blob/	MIT License
16	7-Zip	3.11	http://sourceforge.net/projects/sevenzip/	Public Domain
17	XZ Utils	5.0.7	http://tukaani.org/xz/	Public Domain
18	PCRE	5.0		Public Domain
19	RSA MD5		http://userpages.umbc.edu/~mabzug1/cs/ md5/md5.html	Public Domain
20	Kazlib		http://savannah.nongnu.org/projects/kazli b	Public Domain
21	Doug Lea heap	2.8.3		Public Domain
22	zlib	1.2.6		Public Domain
23	CURL	7.16.0	http://curl.haxx.se/libcurl	Public Domain
24	EXPAT	1.95.8		Public Domain

3.11. Supplier : Obigo

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2	vux	0.1.3		MIT License	Copyright (c): 2016- present, Airyland
3	es6-promise		3.3	MIT License	Copyright (c): Yehuda Katz, Tom Dale, Stefan Penner and contributors
4	Quasar framework		0.5	MIT License	Copyright (c): 2015- present Razvan Stoenescu
5	tween.js		16.6	MIT License	Copyright (c): 2010- 2012 Tween.js authors.
6	iScroll		5	MIT License	Copyright (c): 2014 Matteo Spinelli, cubiq.org
7	array-filter	1.0.0		MIT License	Copyright (c): 2013 Julian Gruber <julian@juliangruber. com></julian@juliangruber.
8	array-find	1.0.0		MIT License	Copyright (c): Stefan Duberg <stefanduberg@gma .com></stefanduberg@gma
9	array-from	1.0.0		MIT License	Copyright (c): Studio B12 GmbH
10	array-map	0.0.0		MIT License	Copyright (c): James Halliday <mail@substack.net></mail@substack.net>
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13	object-assign	4.1.0	MIT License	Copyright (c): Sindre Sorhus <sindresorhus@gmail .com></sindresorhus@gmail
14	photoswipe	4.1		Copyright (c): Dmitry Semenov
15	shake.js	1.2.2	MIT License	Copyright (c): Fractal <contact@wearefract al.com></contact@wearefract
16	validator	5.1.0	MIT License	Copyright (c):2018 Chris O'Hara <cohara87@gmail.co m></cohara87@gmail.co
17	webp-support	1.0.3	MIT License	Copyright (c): 2016- present, Airyland
18	HTML Parser		Mozilla Public License , Apache Software License 2.0	Copyright (c): 2004 Erik Arvidsson
19	archiver	2.1.0	MIT License	Copyright (c): 2012- 2014 Chris Talkington
20	async	2.6.3	MIT License	Copyright (c): 2010- 2018 Caolan McMahon
21	bluebird	3.5.5	MIT License	Copyright (c): 2013- 2018 Petka Antonov
22	extract-zip	1.7.0	BSD-2- Clause License	Copyright (c): 2014 Max Ogden
23	fs-extra	2.1.2	MIT License	Copyright (c): 2011- 2017 JP Richardson
24	iconv-lite	0.4.24	MIT License	Copyright (c): 2011 Alexander Shtuchkin
25	is-online	7.0.0	MIT License	Copyright (c): Sindre Sorhus <sindresorhus@gmail .com></sindresorhus@gmail

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27	lodash	4.17.15	MIT License	Copyright (c): JS Foundation
28	progress- stream	2.0.0	BSD-2- Clause License	Copyright (c): Tobias Baunbæk <freeall@gmail.com></freeall@gmail.com>
29	scp2	0.5.0	MIT License	Copyright (c): 2013 Hsiaoming Yang
30	ssh2	0.5.5	MIT License	Copyright (c): Brian White
31	sshpk	1.61.1	MIT License	Copyright (c): Joyent, Inc
32	targz	1.0.1	MIT License	Copyright (c): Miska Kaipiainen <miska.kaipiainen@g mail.com></miska.kaipiainen@g
33	vboxmanage.js	1.0.6	MIT License	Copyright (c): 2016 Daniel Cohen Gindi
34	xml2js	0.4.23	MIT License	Copyright (c): 2010, 2011, 2012, 2013. All rights reserved.
35	requirejs	2.1.1	MIT License	Copyright (c): jQuery Foundation
36	semver	2.1.0	ISC License	Copyright (c): Isaac Z. Schlueter
37	SlowAES	0.1a1	Apache License	Copyright (c): Josh Davis
38	which	1.0.5	ISC License	Copyright (c): Isaac Z. Schlueter
39	eventemitter2	1.0.0	MIT License	Copyright (c): 2016 Paolo Fragomeni
40	moment.js	2.24.0	MIT License	Copyright (c): 2016 Paolo Fragomeni
41	bootstrap	2.3.1	MIT License	Copyright (c): 2011- 2018 Twitter, Inc. Copyright (c): 2011- 2018 The Bootstrap Authors
42	flexbuffers	1.7.1	Apache 2.0	https://obigo.com/

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44	CppSQLite - C++ Wrapper for SQLite		3.2	CPOL 1.02	Copyright (c): 20042007 Rob Groves. All Rights Reserved. rob.groves@btinterne .com
45	afl-fuzz	2.31b		Apache 2.0 License	https://obigo.com/
46	android craxy linker			BSD 3 License	Copyright (c): 2014 The Chromium Authors
47	platform_syste m_core			Apache 2.0 License	https://obigo.com/
48	angle	master_2014-10-03		BSD 3 License	Copyright (c): 2002- 2013 The ANGLE Project Authors.
49	Blink			LGPL 2.1	Copyright (c): 2014 The Chromium Authors.
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51	breakpad	origin/chrome_53		BSD 3, Apple PSL 2.0 and Apache 2.0 License	Copyright (c): 2006, Google Inc
52	brotli	v0.4.0		MIT License	Copyright (c): 2009, 2010, 2013-2015 by the Brotli Authors.
53	catapult	0.1.0-alpha-1		BSD 3 License	Copyright (c): 2015 The Chromium Authors
54	cacheinvalidatio n	master_2014-09-04		Apache 2.0 License	https://obigo.com/
55	cld2	master_2017-12-14		Apache 2.0 License	https://obigo.com/
56	fontconfig	2.11.0		MIT License	Copyright (c): 2012 Google, Inc.
57	compact_encod ing_detection			Apache 2.0 License	Copyright (c): 2016 Google Inc.

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58	cld3	2f6624f0a6d6fd8f76bdcae3855 c73d23ebec1e	8 Apache 2.0 License	Copyright (c): 2016 Google Inc.
59	coveragepy- coverage	4.0.3	Apache 2.0 License	Copyright (c): 2004- 2015 Ned Batchelder.
60	crashpad- electron	v1.6.12	Apache 2.0 License	https://obigo.com/
61	dmg_fp	master_2014-05-19	MIT License	Copyright (c): 1991, 2000, 2001 by Lucent Technologies.
62	external- chromium_org- sdch-open- vcdiff-mips	kk-4.4.2_r1.m1	Apache 2.0 License	Copyright (c): 2008 The open-vcdiff Authors.
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64	flatbuffers	v1.2.0	Apache 2.0 License	Copyright (c): 2014 Google Inc
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66	glslang	GoogleGlslang20160218	MIT License	Copyright (c): 2015- 2016 The Khronos Group Inc.
67	googlemock	release-1.7.0	BSD 3 License	Copyright (c): 2008, Google Inc.
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74	khronos_heade rs			MIT License, SGI Free Software License B	Copyright (c): 2007- 2010 The Khronos Group Inc.
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76	libaddressinput	master_2014-10-07		Apache 2.0 License	https://obigo.com/
77	libevent	1.4.15-stable		BSD 3 License	Copyright (c): 2007- 2010 Niels Provos and Nick Mathewson
78	dist-llvm	master_2010-04-15		University of Illinois/NCS A Open Source License	Copyright (c): 2003- 2015 University of Illinois at Urbana- Champaign
79	libjpeg-turbo	1.4.90		Custom License (IJG license), BSD 3 License, Zlib License	https://obigo.com/
80	libphonenumbe r	8.9.8		Apache 2.0 License	Copyright (c): 2014 The Chromium Authors. All rights reserved.
81	libpng	1.6.22beta03		lib png License	Copyright (c): 2000- 2002, 2004, 2006- 2016 Glenn Randers- Pehrson
82	libsrtp	1.5.2		BSD 3 License	Copyright (c) 2001- 2006 Cisco Systems, Inc.
83	libvpx	1.6.0		BSD 3 License	Copyright (c) 2010, The WebM Project

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85	libwebp	0.5.1	BSD 3 License	Copyright (c) 2010, Google Inc.
86	libxml2	2.9.5	MIT License	Copyright (c) 1998- 2012 Daniel Veillard.
87	libXNVCtrl	master_2018-03-01	MIT License	Copyright (c) 2008 NVIDIA
88	libxslt	1.1.29-rc2	MIT License	Copyright (c) 1998- 2012 Daniel Veillard
89	libyuv	1.0.0	BSD 3 License	Copyright (c) 2011 The LibYuv Project Authors.
90	linux_syscall_s upport		BSD 3 License	Copyright (c) 2005- 2011, Google Inc.
91	minigbm		BSD 3 License	Copyright (c) 2014 The Chromium OS Authors.
92	modp_b64	master_2014-10-08	BSD 3 License	Copyright (c) 2005, 2006 Nick Galbreath
93	mojo	master_2014-10-08	BSD 3 License	Copyright (c) 2014 The Chromium Authors.
94	mt19937ar	32.0.1700.102	BSD 3 License	Copyright (c) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura
95	native_client	master_2014-10-16	BSD 3 License	Copyright (c) 2008, Google Inc.
96	openh264	1.4.0	BSD 2 License	Copyright (c) 2013, Cisco Systems
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99	ozone-wayland	45.0.2454.37		BSD 3 License	Copyright (c) 2013 Intel Corporation.
100	pdfium/chromiu m		3440	BSD 3 License	Copyright (c) 2014 PDFium Authors.
101	protobuf	3.0.0-beta-3		BSD 3 License	Copyright (c) 2008 Google Inc.
102	qcms			MIT License	Copyright (c) 2009 Mozilla Corporation,Copyright (c) 1998-2007 Marti Maria
103	re2		42401	BSD 3 License	Copyright (c) 2009 The RE2 Authors.
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105	shaderc		2018	Apache 2.0 License	https://obigo.com/
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107	smhasher-trunk		41751	MIT License	Copyright (c) 2011 Google, Inc.
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114	usrsctp	0.9.3.0	BSD 2 License	Copyright (c) 2001, 2002 Cisco Systems, Inc, 2002-12 Randall R. Stewart, 2002-12 Michael Tuexen
115	v8	5.6.309.1	BSD 3 License	Copyright (c) 2006- 2011, the V8 project authors.
116	VulkanTools- sdk	1.0.8.0	MIT License	Copyright (c) 2015 Valve Corporation
117	wayland- protocols		MIT License	Copyright (c) 2008- 2013 Kristian Høgsberg,Copyright (c) 2010-2013 Intel Corporation,Copyright (c) 2013 Rafael Antognolli,Copyright (c) 2013 Jasper St. Pierre,Copyright (c) 2014 Jonas Ådahl,Copyright (c) 2014 Jason Ekstrand,Copyright (c) 2014-2015 Collabora, Ltd.,Copyright (c) 2015 Red Hat Inc.
118	WebGL	master_2015-01-08	MIT License	https://obigo.com/
119	webrtc-builds	9686	BSD 3 License	Copyright (c) 2011, The WebRTC project authors
120	woff2	a15a8ab86b934cf436f8fac4a8a1 1ddf8b59d792	MIT License	https://obigo.com/

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122	boost	1.64.0		BSL 1.0 License	https://obigo.com/
123	libjson-c	0.10		MIT License	Copyright (c) 2007- 2010 Baptiste Lepilleur and The JsonCpp Authors
124	pkg-config- generator			MIT License	Copyright (c) 2016 Ni Mante
125	uriparser	0.8.5		BSD 3 License	Copyright (c) 2007, Weijia Song 2007, Sebastian Pipping
126	xmlsec1	1.2.24		MPL v1.1	Copyright (c)2002- 2016 Aleksey Sanin
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128	Ujson		1.35	BSD 3 License	Copyright (c) 2014, Electronic Arts Inc.
129	Python	2.7.9		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 Softward Foundation
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131	babel-runtime	6.26.0		MIT License	Copyright (c) : 2014- present Sebastian McKenzie and other contributors

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133	css-loader	0.25.0	MIT License	Copyright (c) JS Foundation and other contributors
134	vue-loader	13.7.2	MIT License	Copyright (c) 2015- present Yuxi (Evan) You
135	Blackmagic DeckLink SDK 9.6.4	master_2012-10-10	BSL	Copyright (c) 2014 Blackmagic Design
136	aes-js	3.1.2	MIT License	Copyright (c) 2015 Richard Moore
137	mosquitto	1.6.7	Eclipse Public License 1.0, Eclipse Distribution License 1.0	Copyright (c) 2010- 2014 Roger Light <roger@atchoo.org></roger@atchoo.org>
138	atob	2.1.2	MIT License , Apache 2.0 License	Copyright (c) 2015 A. ONeal
139	cli-spinners	1.3.1	MIT License	Copyright (c) Sindre Sorhus <sindresorhus@gmai .com> (https://sindresorhus.com)</sindresorhus@gmai
140	vue	i18n	MIT License	Copyright (c) 2016 kazuya kawaguchi
141	vue-router		MIT License	Copyright (c) 2013- present Evan You
142	vue-style-loader		MIT License	Copyright (c) JS Foundation and other contributors
143	webpack		MIT License	Copyright (c) JS Foundation and other contributors
144	cli-table- redemption	1.0.1	MIT License	Copyright (c) 2011- 2017 Automattic, 2017 Keymetrics

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146	commander	2.20.3	MIT License	Copyright (c) 2014 TJ Holowaychuk <tj@vision- media.ca></tj@vision-
147	fs-extra	3.0.1	MIT License	Copyright (c) 2011- 2017 JP Richardson
148	inquirer	3.3.0	MIT License	Copyright (c) 2012 Simon Boudrias
149	ora	1.4.0	MIT License	Copyright (c) Sindre Sorhus <sindresorhus@gmai .com> (https://sindresorhus.com)</sindresorhus@gmai
150	thunkify	2.1.2	MIT License	Copyright (c) 2018 TJ Holowaychuk
151	unzip	0.1.11	MIT License	Copyright (c) 2012 - 2013 Near Infinity Corporation
152	xmldom	0.1.31	MIT License	https://obigo.com/
153	xpath	0.0.24	MIT License	Copyright (c) 2018 Cameron McCormack
154	npm-cli-login	0.1.1	Apache 2.0 License	https://obigo.com/
155	ozone-wayland- 45.0.2454.376. 156 selenium- webdriver	master_2015-05-28	Apache 2.0 License	Copyright (c) 2007- 2009 Google Inc.
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5. Under what terms are derivative works allowed?

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

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

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

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Release	Deriv	ed	Year		Owne	r G	iPL-
f	rom				comp	atible?	(1)
0.9.0 thru	1.2	19	991-19	995	CWI	ye	s
1.3 thru 1.	5.2 1.2	1	995-1	999	CNF	RI y	/es
1.6	1.5.2	200	00	CN	RI	no	
2.0	1.6	200	0	BeC	pen.c	om no	
1.6.1	1.6	200)1	CN	RI	yes (2	2)
2.1	2.0+1.6.	1 2	001	Ρ	SF	no	
2.0.1	2.0+1.6	.1 2	2001	F	PSF	yes	
2.1.1	2.1+2.0	.1 2	2001	F	PSF	yes	
2.1.2	2.1.1	20	02	PS	F	yes	
2.1.3	2.1.2	20	02	PS	F	yes	
2.2 and ab	ove 2.1	.1	2001	l-no	w PS	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.

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

4.105.zlib license

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

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Fixed a potential null pointer dereference in png_set_text_2() (bug report

and patch by Patrick Keshishian).

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

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

5.12 Freetype Project License

The FreeType Project LICENSE

Introduction

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former contains code derived from the library, whereas the latter must

be combined with the library in order to run.

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root function must still compute square roots.)

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

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

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-Added CppSQLiteDB3::tableExists()

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

12/07/2007 -Added int64 functions to CppSQLite3Query

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

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

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

-sqlite3_prepare replaced with sqlite3_prepare_v2

-Added Name based parameter binding to CppSQLite3Statement.

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

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

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

CppSQLite3Statement::Step()

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CppSQLite3Statement::DoTransaction(const char *str)

CppSQLite3Statement::BeginTransaction()

CppSQLite3Statement::CommitTransaction()

CppSQLite3Statement::RollbackTransaction()

CppSQLite3DB::getDB()

CppSQLite3DB::RestoreOrBackupDb() by OBIGO

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

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

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

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

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1.3 thru 1	.5.2 1.2	1995	-1999 CN	RI yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.	com no
1.6.1	1.6	2001	CNRI	yes (2)
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Modified files

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

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

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

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libjpeg-turbo note: This fi)le has been modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo, to wordsmith certain sections, and to remove impolitic language that existed in the libjpeg v8 README. It is included only for reference. Please see README.md for information specific to libjpeg-turbo.

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The Independent JPEG Group's JPEG software

This distribution contains a release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

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

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

DOCUMENTATION ROADMAP

This file contains the following sections:

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

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TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

usage.txt Usage instructions for cjpeg, djpeg, jpegtran,

rdjpgcom, and wrjpgcom.

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

wizard.txt Advanced usage instructions for JPEG wizards only.

change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt	How to use the JPEG library in your own programs.
example.c	Sample code for calling the JPEG library.
structure.txt	Overview of the JPEG library's internal structure.

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

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

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

OVERVIEW

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=======

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

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

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

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to

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perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

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

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

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable.

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

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

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REFERENCES

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.

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(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at http://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

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

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

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

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

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

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

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ARCHIVE LOCATIONS

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

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

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

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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

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not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format! (In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO

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

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