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XC-CP

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XC-CP\_INF\_RN\_AIVI\_Scope3.x

## 05-06-2025

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# 2.15.GCC Runtime Library Exception 3.1 to GPL 3.0

GCC Runtime Library Exception 3.1 to GPL 3.0

Version 3.1, 31 March 2009

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

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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.



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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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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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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.

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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.)

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

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

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

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37.	libssh2	1.8.0- 2.1co1+a pertispro 0bv2021.0b1	BSD-3-Clause <u>Other licenses:</u> Public Domain X11 GPL V2 or later with libtool exception GPL V2 or later with autoconf exception GPL V3 or later with autoconf exception	<ul> <li>(c) 2004-2007 Sara Golemon</li> <li><sarag@libssh2.org></sarag@libssh2.org></li> <li>(c) 2005,2006 Mikhail Gusarov</li> <li><dottedmag@dottedmag.net></dottedmag@dottedmag.net></li> <li>(c) 2006-2007 The Written Word, Inc.</li> <li>(c) 2007 Eli Fant <elifantu@mail.ru></elifantu@mail.ru></li> <li>(c) 2009 Daniel Stenberg</li> <li>(C) 2008, 2009 Simon Josefsson</li> </ul>
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Attr	2.4.4 7	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://savannah.nongnu.org/proje cts/attr	
AutoOpts	Unsp ecifie d	BSD 3- claus e "New " or "Revi sed" Lice nse	https://github.com/ShiftMediaProj ect/gnutls/tree/master/src/libopts	https://github.com/ShiftMediaProject/gnutls/ tree/master/src/libopts
barebox	2016. 05.0	GNU Gen eral Publi c Lice nse v2.0 or later	http://github.com/RobertCNelson /barebox/	http://github.com/RobertCNelson/barebox/
Berkeley	Unsp ecifie d	BSD 3- claus e "New " or "Revi sed" Lice nse	http://www.berkeley.edu/	http://www.berkeley.edu/

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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/
		eral Publi	can/download/canutils/v4.0/	
		C		
		Lice		
		nse		
		v2.0		
		or		
		later		
ConvertUTF.h	Unsp	Lice	http://unicode.org/	http://unicode.org/
	ecifie	nse		
	d	for Unic		
		ode		
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
Universal	ecifie	Gen	Boot/WebHome	
Bootloader	d	eral		
		Publi		
		C		
		Lice nse		
		v2.0		
		or		
		later		
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
dbus-glib	0.104	Acad emic	http://www.freedesktop.org/wiki/ Software/dbus	http://www.freedesktop.org/wiki/Software/d
	1	enne	Sultware/upus	bus

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		Lice nse v2.1		
dotzlib	Unsp ecifie d	Boos t Soft ware Lice nse 1.0	https://github.com/madler/zlib/tre e/master/contrib/dotzlib	https://github.com/madler/zlib/tree/master/c ontrib/dotzlib
dt-utils	dt- utils_t est	GNU Gen eral Publi 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/
eudev	Unsp ecifie d	GNU Gen eral Publi c Lice nse v2.0 or later	http://github.com/gentoo/eudev/	http://github.com/gentoo/eudev/
Expat XML Parser - libexpat	Unsp ecifie d	MIT Lice nse	http://www.libexpat.org/	http://www.libexpat.org/

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Filesystem in Userspace	2.9.4	GNU Gen eral Publi c Lice nse v2.0 or later	http://sourceforge.net/projects/fu se/	http://sourceforge.net/projects/fuse/
genshellopt	Unsp ecifie d	GNU Libra ry Gen eral 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
gkernel - rng- tools	5	GNU Gen eral Publi c Lice nse v2.0 or later	http://sourceforge.net/projects/gk ernel/	http://sourceforge.net/projects/gkernel/
Glib	2.46. 0	GNU Libra ry Gen eral Publi c Lice nse v2 or later	https://developer.gnome.org/glib/	https://developer.gnome.org/glib/
GMP - GNU Multiple	6.0.0 a	GNU Gen	http://gmplib.org/	http://gmplib.org/
muluple	a	Gen	1	

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Precision Arithmetic Library		eral Publi c Lice nse v2.0 or later		
GNOME Network Manager	1.0.1 0	GNU Gen eral Publi c Lice nse v2.0 or later	http://www.gnome.org/projects/N etworkManager/	http://www.gnome.org/projects/NetworkMa nager/
GNU C Library - glibc	Unsp ecifie d	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://www.gnu.org/software/libc/l ibc.html	http://www.gnu.org/software/libc/libc.html
GNU Get Text	0.15	GNU Gen eral Publi c Lice nse v2.0 or later	http://www.gnu.org/software/gett ext/	http://www.gnu.org/software/gettext/
GNU gettext	0.18. 2	GNU Libra ry Gen	http://savannah.gnu.org/projects/ gettext/	http://savannah.gnu.org/projects/gettext/

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GnuTLS	3.3.1 3	eral Publi c Lice nse v2 or later GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://savannah.gnu.org/projects/ gnutls/	http://savannah.gnu.org/projects/gnutls/
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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		eral Publi c Lice nse v2.1 or later		
hostapd - IEEE 802.11 AP & IEEE 802.1X/WPA/ WPA2/EAP/RA DIUS Authenticator	2.5	BSD 3- claus e "New " or "Revi sed" Lice nse	http://hostap.epitest.fi/hostapd/	http://hostap.epitest.fi/hostapd/
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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		nse v2.1 or later		
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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Less	443	eral Publi c Lice nse v2.0 or later Less Lice	http://www.greenwoodsoftware.c om/less/	http://www.greenwoodsoftware.com/less/
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		
libbtserviceapi	Unsp ecifie d	Unsp ecifie d		
libbtserviceapi	Unsp ecifie d	Rob ert Bosc h Prop rietar y		
libetrace	Unsp ecifie d	Rob ert Bosc h Prop		

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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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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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Supplier: OBIGO					
SI.No	Name of OSS Component	Version		License	Copyright
1	vuejs		2.4	MIT License	Copyright (c): 2013- present, Yuxi (Evan) You
2	vux	0.1.3		MIT License	Copyright (c): 2016- present, Airyland
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&gt;</julian@juliangruber. 
8	array-find	1.0.0		MIT License	Copyright (c): Stefan Duberg <stefanduberg@gma .com&gt;</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>
11	array-shuffle	1.0.0		MIT License	Copyright (c): Sindre Sorhus <sindresorhus@gmai .com&gt;</sindresorhus@gmai 

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12	countup	1.6.1	MIT License	Copyright (c): Jamie Perkins
13	object-assign	4.1.0	MIT License	Copyright (c): Sindre Sorhus <sindresorhus@gmail .com&gt;</sindresorhus@gmail 
14	photoswipe	4.1		Copyright (c): Dmitry Semenov
15	shake.js	1.2.2	MIT License	Copyright (c): Fractal <contact@wearefract al.com&gt;</contact@wearefract 
16	validator	5.1.0	MIT License	Copyright (c):2018 Chris O'Hara <cohara87@gmail.co m&gt;</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&gt;</sindresorhus@gmail 

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26	json-rpc2	1.0.2	MIT License	Copyright (c): 2009 Eric Florenzano, Ryan Tomayko
27	lodash	4.17.15	MIT License	Copyright (c): JS Foundation
28	progress- stream	2.0.0	BSD-2- Clause License	Copyright (c): Tobias Baunbæk <freeall@gmail.com></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&gt;</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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43	etch	1.4.0		Apache license, v2	Copyright (C) 2012 BMW Car IT GmbH
44	CppSQLite - C++ Wrapper for SQLite		3.2	CPOL 1.02	Copyright (c): 20042007 Rob Groves. All Rights Reserved. rob.groves@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.
50	boringssl	master		BSD 3 License	https://obigo.com/
51	breakpad	origin/chrome_53		BSD 3, Apple PSL 2.0 and Apache 2.0 License	Copyright (c): 2006, Google Inc
52	brotli	v0.4.0		MIT License	Copyright (c): 2009, 2010, 2013-2015 by the Brotli Authors.
53	catapult	0.1.0-alpha-1		BSD 3 License	Copyright (c): 2015 The Chromium Authors
54	cacheinvalidatio n	master_2014-09-04		Apache 2.0 License	https://obigo.com/
55	cld2	master_2017-12-14		Apache 2.0 License	https://obigo.com/
56	fontconfig	2.11.0		MIT License	Copyright (c): 2012 Google, Inc.
57	compact_encod ing_detection			Apache 2.0 License	Copyright (c): 2016 Google Inc.

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59	coveragepy- coverage	4.0.3	Apache 2.0 License	Copyright (c): 2004- 2015 Ned Batchelder.
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Copyright FAQ

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

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

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

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

3. Are derivative works allowed?

Yes!

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

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

5. Under what terms are derivative works allowed?

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

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

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

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

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

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

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

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

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

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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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,

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

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root function must still compute square roots.)

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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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A. HISTORY OF THE SOFTWARE

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

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

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

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0.9.0 thru	1.2	1991-1	1995 CWI	yes
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)
2.1	2.0+1.6	.1 2001	PSF	no
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# Modified files

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

- gen.py Fix coroutines in cython-compiled code
- gen\_test.py Add a complier directive to get gen\_test (mostly) working when cythonized
- options.py Work around cython incompatiblities in options.py
- options\_test.py Work around cython 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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http://code.google.com/p/stringencoders/

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DOCUMENTATION ROADMAP

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This file contains the following sections:

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

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Other documentation files in the distribution are:

User documentation:

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

rdjpgcom, and wrjpgcom.

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

wizard.txt Advanced usage instructions for JPEG wizards only.

change.log Version-to-version change highlights.

Programmer and internal documentation:

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

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

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

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

## OVERVIEW

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#### =======

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

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

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

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

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

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

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

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

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

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

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# REFERENCES

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

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

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

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

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

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

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

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

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

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#### ARCHIVE LOCATIONS

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

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

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

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

FILE FORMAT WARS

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

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

TO DO

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

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