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--- end of FTL.TXT ---


2.15.GCC Runtime Library Exception 3.1 to GPL 3.0

GNU Runtime Library Exception 3.1 to GPL 3.0

Version 3.1, 31 March 2009

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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

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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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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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42.	lz4	1.8.3-1+deb10u1+apertispro0bv2021.0b2	BSD-2-Clause <u>Other licenses:</u> GPL-2.0-ONLY	Copyright (C) Yann Collet 2011-present Copyright (C) 1989, 1991 Free Software Foundation, Inc. Copyright (C) 2016-present, Przemyslaw Skibinski, Yann Collet Copyright (c) 2015, Louis P. Santillan Copyright (c) 2014, Ipsantil
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55.	yajl	2.1.0-3co1+apertispro0bv2021.0b1	ISC	

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HarfBuzz	1.7.4	MIT License	http://harfbuzz.org/	Copyright © 2004,2007,2008,2009,2010 Red Hat, Inc., Copyright © 2011 Codethink Limited, Copyright © 2010,2011,2012 Google, Inc
libunibreak	2.1	zlib License	http://vimgadgets.sourceforge.net/libunibreak/	Copyright (c) 2008-2011 Wu Yongwei Copyright (c) 2012 Tom Hacothen
lua	5.3.4	Lua 5.0 License	http://www.lua.org/	Copyright (C) 1994-2017 Lua.org, PUC-Rio
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RBTree.cpp	Unspecified	Public Domain	https://github.com/anandara0/Red-Black-Tree/blob/master/RBTree.cpp	Copyright (C) Candra GmbH
BidiReference.cpp	26	Unicode Terms of Use (Unicode-TOU)	http://www.unicode.org/Public/PROGRAMS/BidiReferenceCpp/	Copyright © 1991-2010 Unicode
ZLIB	1.2.8	zlib License	http://tracker.debian.org/pkg/zlib	1995-2013 Jean-loup Gailly and Mark Adler
litehtml	Unspecified			


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Supplier : Escript				
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libdbus	1.4.18	Academic Free License v2.1		Copyright (C) 2003-2004 Lawrence E. Rosen Copyright (C) 1989, 1991 Free Software Foundation, Inc.


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adb	1.0.31	BSD-3-Clause AND Apache-2.0	http://developer.android.com/index.html	Copyright (c) 1988 Regents of the University of California. * All rights reserved. Copyright (c) 2006-2009, 2012 The Android Open Source Project Copyright 2006, Brian Swetland <swetland@frotz.net>
android-clat	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright 2010-2012 Daniel Drown
applypatch	Android4.4	BSD-2-Clause AND Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2009 The Android Open Source Project
aprd	Android4.4	GPL-2.0-only	http://developer.android.com/index.html	
atrace	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2012 The Android Open Source Project
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bluedroid	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 1999-2012 Broadcom Corporation
bmgr	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (c) 2009, The Android Open Source Project
bugreport	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2009 The Android Open Source Project
busybox	1.17.1	GPL-2.0-only	http://developer.android.com/index.html	Copyright (C) 1998-2009 Erik Andersen, Rob Landley, Denys Vlasenko and others
common_time	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (c) 2005-2008,2011-2012 The Android Open Source Project
compress_simu	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2011 The Android Open Source Project
connectivitymanager	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (c) 2013, The Android Open Source Project
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dhcpcd	5.5.6	BSD-2-Clause AND BSD-3-Clause AND ISC AND Apache-2.0	http://developer.android.com/index.html	Copyright (c) 1990, 1993 The Regents of the University of California. All rights reserved. Copyright (c) 2006-2008 Roy Marples <roy@marples.name> All rights reserved Copyright 2006-2012 Roy Marples <roy@marples.name> All rights reserved Copyright (c) 2004,2007 by Internet Systems Consortium, Inc. ("ISC") Copyright (c) 1996-2003 by Internet Software Consortium Copyright 2011, The Android Open Source Project
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dumpstate	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2008,2013 The Android Open Source Project
dumpsys	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2005-2008 The Android Open Source Project
e2fsprogs	1.41.14	GPL-2.0-or-later AND LGPL-2.0-or-later AND BSD-3-Clause AND MIT	http://developer.android.com/index.html	Copyright 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 by Theodore Ts'o. Copyright 1990, 1991, 1992 Free Software Foundation, Inc. Written May 1989 by Mike Haertel. Copyright (C) 1985-2005 by the Massachusetts Institute of Technology. All rights reserved. Copyright (C) 1996-1999,2003,2007 Theodore Ts'o. Copyright 1999 Andreas Dilger (adilger@enel.ucalgary.ca) Copyright (c)

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factorytest	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2006,2007,2014 The Android Open Source Project Copyright (C) 2014 The CyanogenMod Project

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filterpacks	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2011 The Android Open Source Project
framework-base-data	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2008 The Android Open Source Project copyright © 2007, Google Corporation. Regular Ascender - Droid Sans Version 1.00 copyright Google 2013 Google: Roboto: 2013 Roboto Regular Version 1.200310
framework-native-data	Android4.4	Apache-2.0	http://developer.android.com/index.html	Copyright (C) 2006-2013 The Android Open Source Project
freetype	2.4.2	FTL AND MIT	http://developer.android.com/index.html	Copyright 1996-2002, 2006 by David Turner, Robert Wilhelm, and Werner Lemberg Copyright (C) 2000, 2001, 2002 by Francesco Zappa Nardelli
gcc-demangle	4.6	GPL-2.0-or-later AND LGPL-2.0-or-later	http://developer.android.com/index.html	Copyright 1992, 1993, 1994, 1995, 1996, 1997, 1998, 2000, 2001, 2002, 2003,

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AutoOpts	Unspecified	BSD 3-clause "New" or "Revised" License	https://github.com/ShiftMediaProject/gnutls/tree/master/src/libopts	https://github.com/ShiftMediaProject/gnutls/tree/master/src/libopts
barebox	2016.05.0	GNU General Public License v2.0 or later	http://github.com/RobertCNelson/barebox/	http://github.com/RobertCNelson/barebox/
Berkeley	Unspecified	BSD 3-clause "New" or "Revised" License	http://www.berkeley.edu/	http://www.berkeley.edu/
Berkeley_test	Unspecified	BSD 3-clause "New" or "Revised" License	http://www.berkeley.edu/	http://www.berkeley.edu/
bison	3.0.2, 2.5	GNU General Public	http://savannah.gnu.org/projects/bison/	http://savannah.gnu.org/projects/bison/

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		c Lice nse v3.0 or later with Biso n exce ption 2.2		
Bob Jenkins - Hashing	Unsp ecifie d	Publi c Dom ain	http://www.burtleburtle.net/bob/index.html	http://www.burtleburtle.net/bob/index.html
Boost C++ Libraries - boost	1.59. 0	Boos t Soft ware Lice nse 1.0	http://boost.org/	http://boost.org/
BusyBox	1.24. 1,1.2 3.2	GNU Gen eral Publi c Lice nse v2.0 or later	http://www.busybox.net	http://www.busybox.net
Bzip2	1.0.6	Bzip 2 Lice nse	http://www.bzip.org/	http://www.bzip.org/
CANUTIL	4.0.6	GNU Gen eral Publi c Lice nse	http://www.pengutronix.de/software/socket-can/download/canutils/v4.0/	http://www.pengutronix.de/software/socket-can/download/canutils/v4.0/

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		v2.0 or later		
ConvertUTF.h	Unspecified	License for Unicode	http://unicode.org/	http://unicode.org/
crda	3.18	ISC License	http://github.com/idor/crda/	http://github.com/idor/crda/
Das U-Boot - Universal Bootloader	Unspecified	GNU General Public License v2.0 or later	http://www.denx.de/wiki/U-Boot/WebHome	http://www.denx.de/wiki/U-Boot/WebHome
D-Bus	1.10.2	Academic Free License v2.1	http://www.freedesktop.org/wiki/IntroductionToDBus	http://www.freedesktop.org/wiki/IntroductionToDBus
dbus-glib	0.104	Academic Free License v2.1	http://www.freedesktop.org/wiki/Software/dbus	http://www.freedesktop.org/wiki/Software/dbus
dotzlib	Unspecified	Boost Software License 1.0	https://github.com/madler/zlib/tree/master/contrib/dotzlib	https://github.com/madler/zlib/tree/master/contrib/dotzlib
dt-utils	dt-utils_test	GNU General Public	http://www.pengutronix.de/	http://www.pengutronix.de/

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		c Lice nse v2.0 or later		
eCryptfs - ecryptfs- userspace	108	GNU Gen eral Publi c Lice nse v2.0 or later	http://sourceforge.net/projects/ecryptfs/	http://sourceforge.net/projects/ecryptfs/
eudev	Unsp ecifie d	GNU Gen eral Publi c Lice nse v2.0 or later	http://github.com/gentoo/eudev/	http://github.com/gentoo/eudev/
Expat XML Parser - libexpat	Unsp ecifie d	MIT Lice nse	http://www.libexpat.org/	http://www.libexpat.org/
Filesystem in Userspace	2.9.4	GNU Gen eral Publi c Lice nse v2.0 or later	http://sourceforge.net/projects/fuse/	http://sourceforge.net/projects/fuse/
genshelo	Unsp ecifie d	GNU Libra ry Gen eral	https://github.com/ShiftMediaProject/gnutls/tree/master/src/libopts	https://github.com/ShiftMediaProject/gnutls/tree/master/src/libopts

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		Public License v2 or later		
gkernel - rng-tools	5	GNU General Public License v2.0 or later	http://sourceforge.net/projects/gkernel/	http://sourceforge.net/projects/gkernel/
Glib	2.46.0	GNU Library General Public License v2 or later	https://developer.gnome.org/glib/	https://developer.gnome.org/glib/
GMP - GNU Multiple Precision Arithmetic Library	6.0.0a	GNU General Public License v2.0 or later	http://gmplib.org/	http://gmplib.org/
GNOME Network Manager	1.0.10	GNU General Public License	http://www.gnome.org/projects/NetworkManager/	http://www.gnome.org/projects/NetworkManager/

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		v2.0 or later		
GNU C Library - glibc	Unspecified	GNU Lesser General Public License v2.1 or later	http://www.gnu.org/software/libc/libc.html	http://www.gnu.org/software/libc/libc.html
GNU Get Text	0.15	GNU General Public License v2.0 or later	http://www.gnu.org/software/gettext/	http://www.gnu.org/software/gettext/
GNU gettext	0.18.2	GNU Library General Public License v2 or later	http://savannah.gnu.org/projects/gettext/	http://savannah.gnu.org/projects/gettext/
GnuTLS	3.3.13	GNU Lesser General Public License	http://savannah.gnu.org/projects/gnutls/	http://savannah.gnu.org/projects/gnutls/

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		nse v2.1 or later		
googlemock	1.7.0	BSD 3- claus e "New " or "Revi sed" Lice nse	http://code.google.com/p/googlemock/	http://code.google.com/p/googlemock/
Gstreamer	0.10.36	GNU Libra ry Gen eral Publi c Lice nse v2 or later	http://gstreamer.freedesktop.org/modules/	http://gstreamer.freedesktop.org/modules/
GSTREAMER PLUGINS- BASE	0.10.36	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://gstreamer.freedesktop.org/src/gst-plugins-base/	http://gstreamer.freedesktop.org/src/gst-plugins-base/
hostapd - IEEE 802.11 AP & IEEE 802.1X/WPA/ WPA2/EAP/RA DIUS Authenticator	2.5	BSD 3- claus e "New " or "Revi	http://hostap.epitest.fi/hostapd/	http://hostap.epitest.fi/hostapd/

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		sed" Lice nse		
htop	1.0.3	GNU Gen eral Publi c Lice nse v2.0 or later	http://github.com/hishamhm/htop/	http://github.com/hishamhm/htop/
IDEA_FUNCTION	Unsp ecifie d	MIT v2 with Ad Clau se Lice nse	https://github.com/ShiftMediaProject/libgcrypt/tree/master/cipher	https://github.com/ShiftMediaProject/libgcrypt/tree/master/cipher
imx_usb_loader	Unsp ecifie d	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://github.com/boundarydevices/imx_usb_loader/	http://github.com/boundarydevices/imx_usb_loader/
Info-Zip	3.0	Info- ZIP Upd ated Lice nse	http://www.info-zip.org/pub/infozip/Zip.html	http://www.info-zip.org/pub/infozip/Zip.html
lperf	2.0.5	lperf Lice nse	http://sourceforge.net/projects/lperf/	http://sourceforge.net/projects/lperf/
IPTables	1.4.2 1	GNU Gen	http://www.netfilter.org/	http://www.netfilter.org/

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		eral Publi c Lice nse v2.0 or later		
ISC DHCP	4.1.2	ISC Lice nse	http://www.isc.org/software/dhcp/	http://www.isc.org/software/dhcp/
iw-ct	3.14	ISC Lice nse	http://github.com/greearb/iw-ct/	http://github.com/greearb/iw-ct/
jquery	Unsp ecifie d	MIT Lice nse	http://github.com/jquery/jquery/	http://github.com/jquery/jquery/
keyutils	1.5.9	GNU Gen eral Publi c Lice nse v2.0 or later	http://people.redhat.com/~dhowells/keyutils/	http://people.redhat.com/~dhowells/keyutils/
Kmod_Linux	22	GNU Gen eral Publi c Lice nse v2.0 or later	https://github.com/lucasdemarchi/kmod	https://github.com/lucasdemarchi/kmod
Less	443	Less Lice nse	http://www.greenwoodsoftware.com/less/	http://www.greenwoodsoftware.com/less/
Lib Cap	2.24	BSD 3- claus e	http://sites.google.com/site/fullycapable/	http://sites.google.com/site/fullycapable/

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		"New " or "Revi sed" Lice nse		
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 rietar y		
libffi	3.2.1	Libffi Lice nse	http://sourceware.org/libffi/	http://sourceware.org/libffi/
libcrypt	Unsp ecifie d	GNU Less er Gen eral Publi c Lice nse v2.1	http://www.gnupg.org	http://www.gnupg.org

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

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

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

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		c Lice nse v2.1 or later		
Libtasn1	3.2	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://www.gnu.org/software/libtasn1/	http://www.gnu.org/software/libtasn1/
libtopas_test	Unsp ecifie d	Rob ert Bosc h Prop rietar y		
libtopasapidtsi	Unsp ecifie d	Rob ert Bosc h Prop rietar y		
libusb	1.0.1 8	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://sourceforge.net/projects/libusb/	http://sourceforge.net/projects/libusb/

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

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		c Lice nse v2.0 or later		
lrzsz	0.12. 20	GNU Gen eral Publi c Lice nse v2.0 or later	http://www.ohse.de/uwe/software/lrzsz.html	http://www.ohse.de/uwe/software/lrzsz.html
ltmain.sh	Unsp ecifie d	GNU Gen eral Publi c Lice nse v2.0 or later	http://www.gnu.org	http://www.gnu.org
luafilesystem	v_1_ 6_3	MIT Lice nse	http://github.com/keplerproject/luafs	http://github.com/keplerproject/luafs
Minicom	2.6.2	GNU Gen eral Publi c Lice nse v2.0 or later	http://alioth.debian.org/projects/minicom/	http://alioth.debian.org/projects/minicom/
mtd-utils	1.5.2	GNU Gen eral Publi c	http://git.infradead.org/mtd-utils.git	http://git.infradead.org/mtd-utils.git

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		Lic nse v2.0 or later		
ncurses	5.9	X11 Lic nse	https://www.gnu.org/software/ncurses/ncurses.html	https://www.gnu.org/software/ncurses/ncurses.html
Nettle	2.7.1	GNU Less er Gen eral Publi c Lic nse v2.1 or later	http://www.lysator.liu.se/~nisse/nettle/	http://www.lysator.liu.se/~nisse/nettle/
NYS_Library	Unsp ecifie d	GNU Libra ry Gen eral Publi c Lic nse v2 or later	https://github.com/stevenylai/ralink_sdk/blob/master/source/user/ebtables-v2.0.9-2/getethertype.c	https://github.com/stevenylai/ralink_sdk/blob/master/source/user/ebtables-v2.0.9-2/getethertype.c
OpenSSH	7.1p2	BSD 2- claus e "Sim plifie d" Lic nse	http://www.openssh.com/portable.html	http://www.openssh.com/portable.html
OpenSSL	1.0.2 e	Ope nSS L Com	http://www.openssl.org/	http://www.openssl.org/

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		bin d Lic nse		
opkg	0.3.0	GNU Gen eral Publi c Lic nse v2.0 or later	https://git.yoctoproject.org/cgit/cgit.cgi/opkg/	https://git.yoctoproject.org/cgit/cgit.cgi/opkg/
PCRE	8.32	PCR E 5 Lic nse	http://sourceforge.net/projects/pcr/	http://sourceforge.net/projects/pcr/
PCSC Lite	Unsp ecifie d	BSD 3- claus e "New " or "Revi sed" Lic nse	http://pcsc-lite.alioth.debian.org/	http://pcsc-lite.alioth.debian.org/
Popt	1.15	X11 Lic nse	http://freshmeat.net/projects/popt/	http://freshmeat.net/projects/popt/
ppp - Pauls PPP Package	Unsp ecifie d	GNU Gen eral Publi c Lic nse v2.0 or later	http://ppp.samba.org/ppp/index.html	http://ppp.samba.org/ppp/index.html
ppp - Pauls PPP Package	2.4.7	GNU Gen eral	https://ppp.samba.org/index.html	https://ppp.samba.org/index.html

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		Public License v2.0 or later		
protobuf	2.5.0	BSD 3-clause "New" or "Revised" License	http://code.google.com/p/protobuf/	http://code.google.com/p/protobuf/
ReadLine Front-End	Unspecified	GNU General Public License v2.0 or later	https://github.com/issue/readline/tree/master/examples/rfe	https://github.com/issue/readline/tree/master/examples/rfe
rsync	2.6.9	GNU General Public License v2.0 or later	http://samba.anu.edu.au/rsync/	http://samba.anu.edu.au/rsync/
S Trace	4.10	BSD 3-clause "New" or "Revised" License	http://sourceforge.net/projects/strace/	http://sourceforge.net/projects/strace/

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		sed" Lice nse		
siphash	Unsp ecifie d	Publi c Dom ain	http://github.com/dchest/siphash/	http://github.com/dchest/siphash/
smhasher	3090 200	Publi c Dom ain	http://code.google.com/p/smhasher/	http://code.google.com/p/smhasher/
SQLite	3090 200	Publi c Dom ain	http://www.hwaci.com/sw/sqlite/index.html	http://www.hwaci.com/sw/sqlite/index.html
squashfs-tools	4.3	GNU Gen eral Publi c Lice nse v2.0 or later	http://github.com/plougher/squashfs-tools/	http://github.com/plougher/squashfs-tools/
systemd	228	GNU Less er Gen eral Publi c Lice nse v2.1 or later	http://freedesktop.org/wiki/Software/systemd/	http://freedesktop.org/wiki/Software/systemd/
Tiny Asynchronous DNS lookup library	Unsp ecifie d	Beer ware Lice nse	http://sourceforge.net/projects/adns/	http://sourceforge.net/projects/adns/
TLSF	1.9	Publi c	http://tlsf.baisoku.org	http://tlsf.baisoku.org

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

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usbnet	Unspecified	GNU Lesser General Public License v2.1 or later	http://www.linux-usb.org/usbnet/	http://www.linux-usb.org/usbnet/
Util-Linux	2.27.1	GNU General Public License v2.0 or later	http://freshmeat.net/projects/util-linux/	http://freshmeat.net/projects/util-linux/
util-unix-ng	Unspecified	GNU General Public License v2.0 or later	http://userweb.kernel.org/~kzak/util-linux-ng/	http://userweb.kernel.org/~kzak/util-linux-ng/
Wide_Project	Unspecified	BSD 3-clause "New" or "Revised" License	http://www.wide.ad.jp/index.html	http://www.wide.ad.jp/index.html
wireless-tools	30	GNU Gen	http://www.hpl.hp.com/personal/Jean_Tourrilhes/Linux/Tools.html	http://www.hpl.hp.com/personal/Jean_Tourrilhes/Linux/Tools.html

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

3.6.Supplier: Nuance

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


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3.7.Supplier : OMRON

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

3.8.Supplier : Redbend_SWM


Supplier: Redbend_SWM				
Component	Version	License	Home Page	Copyright
action	0.1.1	Apache License 2.0	http://repo1.maven.org/maven2/com/nin-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.android.com/index.html	http://developer.android.com/index.html
Android - platform - frameworks - base	4.0.1_r1	Apache License 2.0	http://developer.android.com/index.html	http://developer.android.com/index.html
Android - platform - prebuilts - sdk	4.4_r1	Apache License 2.0	http://developer.android.com/index.html	http://developer.android.com/index.html
Android SDK Support Libraries	19	Apache License 2.0	https://developer.android.com/tools/sup-port-library/index.html	https://developer.android.com/tools/sup-port-library/index.html
Android SDK Support Libraries	23.1.1	Apache License 2.0	https://developer.android.com/tools/sup-port-library/index.html	https://developer.android.com/tools/sup-port-library/index.html
Drools :: Scorecards	5.5.0.Final	Apache License 2.0	http://mirrors.ibiblio.org/maven2/org/drools/droolsscorecards/	http://mirrors.ibiblio.org/maven2/org/drools/droolsscorecards/
mongolduu	master-20121109	Apache License 2.0	http://github.com/tugstugi/mongolduu/	http://github.com/tugstugi/mongolduu/
Stan-for-Android	0.1.0	Apache License 2.0	http://github.com/La-bel305/Stan-forAndroid/	http://github.com/La-bel305/Stan-forAndroid/

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doT	1.0.1	MIT License	http://github.com/ola do/doT/	http://github.com/ola do/doT/
jquery	2.0.3	MIT License	http://github.com/jquery/jquery/	http://github.com/jquery/jquery/
jquery_mobile_rails	1.3.2	MIT License	http://rubygems.org/gems/jquery_mobile_rails	http://rubygems.org/gems/jquery_mobile_rails
SafeSlinger-Android	1.8.3-messenger	MIT License	http://github.com/SafeSlingerProject/SafeSlinger-Android/	http://github.com/SafeSlingerProject/SafeSlinger-Android/
OpenSSL	Generic Version	OpenSSL Combined License	http://www.openssl.org/	http://www.openssl.org/
CRC32 MIT.edu	Generic Version	Public Domain	http://web.mit.edu/	http://web.mit.edu/
SHA-1 in C	9/1/2001	Public Domain	http://www.mirrors.wiretapped.net/security/cryptography/hash es/sha1	http://www.mirrors.wiretapped.net/security/cryptography/hash es/sha1
SyncML C Toolkit	4.0.3	SyncML License	http://sourceforge.net/projects/syncmlctoolkit/	http://sourceforge.net/projects/syncmlctoolkit/

3.9.Supplier : Redbend


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

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bsdiff	4.3	BSDiff license	http://github.com/geraldonetto/bsdiff/	http://github.com/geraldonetto/bsdiff/
CMarkup	11.05	Acquired CMarkup Developer License	http://www.firstobject.com/dn_markup.htm	http://www.firstobject.com/dn_markup.htm
CRC table (Autogen)	Has no version number	Public Domain	http://en.wikipedia.org/wiki/Cyclic_redundancy_check	http://en.wikipedia.org/wiki/Cyclic_redundancy_check
Filesystem in Userspace	2.8.5	BSD 2-clause "Simplified" License	http://sourceforge.net/projects/fuse/	http://sourceforge.net/projects/fuse/
Filesystem in Userspace	2.9.3	GNU Lesser General Public License v2.1 or later	http://sourceforge.net/projects/fuse/	http://sourceforge.net/projects/fuse/
FreeBSD	2.2.2	BSD 4-clause "Original" or "Old" License	http://www.freebsd.org	http://www.freebsd.org
Freescale Semiconductor CodeWarrior Development Studio for MPC55xx/MP C56xx	2.10 special edition	Commercial license		
GNU C Library - glibc	2.2.4	GNU Lesser General	http://www.gnu.org/software/libc/libc.html	http://www.gnu.org/software/libc/libc.html


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		Public License v2.1 or later		
Lawicel CAN USB sample code	0.1.8	Lawicel CAN USB sample code license	http://www.can232.com/?page_id=75	http://www.can232.com/?page_id=75
libdivsufsort	2.0.0	MIT License	http://code.google.com/p/libdivsufsort/	http://code.google.com/p/libdivsufsort/
lz4	94	BSD 2-clause "Simplified" License	http://code.google.com/p/lz4/	http://code.google.com/p/lz4/
LZO real-time data compression library	2.04	Acquired commercial license	http://www.oberhumer.com/opensource/lzo/	http://www.oberhumer.com/opensource/lzo/
MSDN Sample Code	vs.85	Microsoft Limited Public License (MS-LPL)	http://msdn.microsoft.com/en-US/windows/	http://msdn.microsoft.com/en-US/windows/
NetBSD	6	BSD 3-clause "New" or "Revised" License	http://www.netbsd.org/	http://www.netbsd.org/
UCL Data Compression Library	1.03	Acquired commercial license	http://www.oberhumer.com/opensource/ucl/	http://www.oberhumer.com/opensource/ucl/
XMLFoundation	Apr-14	MIT License	http://xmlfoundation.codeplex.com/	http://xmlfoundation.codeplex.com/
zlib	1.2.3	zlib License	http://www.zlib.net	http://www.zlib.net


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3.10.Supplier : SK_telecom

Supplier: SK_telecom				
Component name	Version	License	Homepage	Copyright
aladdin-md5	Unspecified	zlib License	https://opensource.apple.com/source/cups/cups-30/cups/md5.h.auto.html	Copyright (C) 1999 Aladdin Enterprises
Alsa Libraries	Unspecified	GNU Lesser General Public License v2.1 or later	http://www.alsa-project.org/	
Android - platform - frameworks - base	android-7.0.0_r1	Apache License 2.0	https://android.googlesource.com/platform/frameworks/base	(C) 2015 The Android Open Source Project
Android - platform - frameworks - base	Unspecified	Apache License 2.0	https://android.googlesource.com/platform/frameworks/base	
Anti-Grain Geometry	Unspecified	Anti-Grain Geometry Public License	http://sourceforge.net/projects/vector-agg/	Copyright (C) 2002-2005 Maxim Shemanarev
Boost C++ Libraries - boost	Unspecified	Boost Software License - Version 1.0	http://boost.org/	
Code Project - C++ Memory Pool	1	The Code Project Open License (CPOL) 1.02	http://www.codeproject.com/KB/cpp/MemoryPool.aspx	
Curl and Libcurl	Unspecified	curl License	http://github.com/curl/curl/	Copyright (C) 1998 - 2011, Daniel Stenberg
gecko-dev	Unspecified	BSD 3-clause "New" or "Revised" License	http://github.com/mozilla/gecko-dev/	(C) 2002 Jean-Marc Valin
gpclib	Unspecified	Commercial License	http://github.com/rdpeng/gpplib/	(C) 1997-2004, Advanced Interfaces Group, University of Manchester.
GSM 06.10 Lossy Speech Compression	Unspecified	GSM License	http://kbs.cs.tu-berlin.de/~jutta/toast.html	Copyright 1992, 1993, 1994 by Jutta Degener and Carsten Bormann

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GStreamer	Unspecified	GNU Library General Public License v2 or later	http://gstreamer.freedesktop.org/modules/	
jsoncpp	Unspecified	Public Domain or MIT	http://sourceforge.net/projects/jsoncpp/	Copyright (c) 2007-2010 by Baptiste Lepilleur and The JsonCpp Authors,
libogg	Unspecified	BSD 3-clause "New" or "Revised" License	http://xiph.org/ogg/	Copyright (c) 2002, Xiph.org Foundation
libxml2	Unspecified	MIT license	http://xmlsoft.org/	
OpenGL-Examples	master - 20141123	zlib License	http://github.com/progschj/OpenGL-Examples/	Copyright (c) 2012 Jakob Progsch
OpenSSL	1.0.2	OpenSSL Combined License	http://www.openssl.org	
Opus	Unspecified	BSD 3-clause "New" or "Revised" License	http://opus-codec.org	Copyright (c) 2007-2008 CSIRO Copyright (c) 2007-2010 Xiph.Org Foundation Copyright (c) 2008 Gregory Maxwell
pkgconf	Unspecified	ISC License	http://github.com/pkgconf/pkgconf/	Copyright (c) 1998 Todd C. Miller
pugixml	Unspecified	MIT license	http://pugixml.org/	Copyright (c) 2006-2018 Arseny Kapoulkine
PVRTC Library	Unspecified	Unspecified	https://www.imgtec.com/developers/powervr-sdk-tools/installers/	
SDL	2	zlib License	http://www.libsdl.org/index.php	Copyright (C) 1997-2016 Sam Lantinga
SDL_gfx	Unspecified	zlib License	http://sourceforge.net/projects/sdlgfx/	
Speex	1.2beta2 dev	BSD 3-clause "New" or "Revised" License	http://www.speex.org/	
SQLite	Unspecified	Public domain	http://www.sqlite.org/	
Sunrise/set calculator	Unspecified	Public domain	https://stjarnhimlen.se/comp/sunriset.c	
tiny-AES128-C	20141218	Public domain	http://github.com/kokke/tiny-AES128-C/	

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wosh	Unspecified	BSD 3-clause "New" or "Revised" License	http://code.google.com/p/wosh/	Copyright (C) 2002 Michael Ringgaard. All rights reserved.
zlib	1.2.11	zlib License	http://www.zlib.net/	

3.11.Node Modules Components

Name of OSS Component	Version of OSS Component	Name and Version of License	Home page
buffer-crc32	0.2.5	MIT	https://github.com/brianloveswords/buffer-crc32
dbus-native	0.2.0	MIT	https://github.com/sidorares/node-dbus
dbus-proxy	0.0.0-unreleasable	NA	NA
abstract-socket	1.0	MIT	https://github.com/saghul/node-abstractsocket
bindings	1.2.1	MIT	https://github.com/TooTallNate/node-bindings
nan	2.4.0	MIT	https://github.com/nodejs/nan#readme
1to2	1.0.0	MIT	NA
event-stream	3.3.4	MIT	http://github.com/dominictarr/event-stream
duplexer	0.1	MIT	https://github.com/Raynos/duplexer
from	0.3	MIT	https://github.com/dominictarr/from
map-stream	0.0	NA	http://github.com/dominictarr/map-stream
pause-stream	0.0.11	MIT, Apache2	https://github.com/dominictarr/pause-stream
split	0.3.3	MIT	http://github.com/dominictarr/split
stream-combiner	0.0.4	MIT	https://github.com/dominictarr/stream-combiner
through	2.3.8	MIT	https://github.com/dominictarr/through
put	0.0.6	MIT/X11	https://github.com/substack/node-put
xml2js	0.14	NA	https://github.com/Leonidas-from-XIV/node-xml2js
sax	1.2.1	ISC	https://github.com/isaacs/sax-js#readme
iconv-lite	0.4.15	MIT	https://github.com/ashtuchkin/iconv-lite
jbinary	2.2	MIT	https://github.com/jDataView/jBinary

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es6-promise	2.0.1	MIT	NA
es6-promise	2.0.1	MIT	https://github.com/jakearchibald/ES6-Promises
jdataview	2.5.0	WTFPL	http://jDataView.github.io/
request	2.53.0	Apache-2.0	https://github.com/request/request
aws-sign2	0.5.0	NA	https://github.com/mikeal/aws-sign
bl	0.9.4	MIT	https://github.com/rvagg/bl
readable-stream	1.0.33	MIT	https://github.com/isaacs/readable-stream
core-util-is	1.0.1	MIT	https://github.com/isaacs/core-util-is
inherits	2.0.1	ISC	https://github.com/isaacs/inherits
isarray	0.0.1	MIT	https://github.com/juliangruber/isarray
string_decoder	0.10.31	MIT	https://github.com/rvagg/string_decoder
caseless	0.9.0	BSD	https://github.com/mikeal/caseless
combined-stream	0.0.7	NA	https://github.com/felixge/node-combined-stream
delayed-stream	0.0.5	NA	https://github.com/felixge/node-delayed-stream
forever-agent	0.5.2	NA	https://github.com/mikeal/forever-agent
form-data	0.2.0	MIT	https://github.com/felixge/node-form-data
async	0.9.0	MIT	https://github.com/caolan/async
hawk	NA	./LICENSE	NA
hawk	2.3.1	BSD	https://github.com/hueniverse/hawk
boom	2.6.1	BSD	https://github.com/hapijs/boom
cryptiles	2.0.4	BSD	https://github.com/hapijs/cryptiles
hoek	2.11.0	BSD	https://github.com/hapijs/hoek
sntp	1.0.9	BSD	https://github.com/hueniverse/sntp
http-signature	0.10.1	MIT	https://github.com/joyent/node-http-signature/
asn1	0.11	NA	NA
assert-plus	0.5	NA	https://github.com/mcavage/node-assert-plus
ctype	0.5.3	NA	https://github.com/rmustacc/node-ctype
isstream	0.1	MIT	https://github.com/rvagg/isstream
json-stringify-safe	5.0.0	BSD	https://github.com/isaacs/json-stringify-safe
mime-types	2.0.9	MIT	https://github.com/jshttp/mime-types
mime-db	1.7.0	MIT	https://github.com/jshttp/mime-db

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node-uuid	1.4.2	MIT	https://github.com/broofa/node-uuid
oauth-sign	0.6.0	NA	https://github.com/mikeal/oauth-sign
qs	2.3.3	BSD	https://github.com/hapijs/qs
stringstream	0.0.4	MIT	https://github.com/mhart/StringStream
tough-cookie	0.12.1	MIT	https://github.com/goinstant/tough-cookie
punycode	1.3.2	MIT	https://mths.be/punycode
tunnel-agent	0.4.0	NA	https://github.com/mikeal/tunnel-agent
mkdirp	0.5.0	MIT	https://github.com/substack/node-mkdirp
minimist	0.0.8	MIT	https://github.com/substack/minimist
xml2js	0.4.5	MIT	https://github.com/Leonidas-from-XIV/node-xml2js
sax	0.6.1	BSD	https://github.com/isaacs/sax-js
xmlbuilder	2.5.1	MIT	http://github.com/oozcitak/xmlbuilder-js
lodash	3.0	MIT	https://lodash.com/

3.12. Miscellaneous components:

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


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11	lucy search engine – lucy	0.6.0	http://sourceforge.net/projects/lucy-search/	BSD 3-clause "New" or "Revised" License
12	NetBSD	1.4	http://www.netbsd.org/	BSD 3-clause "New" or "Revised" License
13	Open BSD	4.5	http://www.openbsd.org	BSD 3-clause "New" or "Revised" License
15	Test-SQLite-blob	trunk-20120916-svn	http://code.google.com/p/test-sqlite-blob/	MIT License
16	7-Zip	3.11	http://sourceforge.net/projects/sevenzip/	Public Domain
17	XZ Utils	5.0.7	http://tukaani.org/xz/	Public Domain
18	PCRE	5.0		Public Domain
19	RSA MD5		http://userpages.umbc.edu/~mabzug1/cs/md5/md5.html	Public Domain
20	Kazlib		http://savannah.nongnu.org/projects/kazlib	Public Domain
21	Doug Lea heap	2.8.3		Public Domain
22	zlib	1.2.6		Public Domain
23	CURL	7.16.0	http://curl.haxx.se/libcurl	Public Domain
24	EXPAT	1.95.8		Public Domain


3.13. Supplier: Obigo

For license Terms and Conditions: Refer Section 5


Supplier: OBIGO				
Sl.No	Name of OSS Component	Version	License	Copyright
1	vuejs	2.4	MIT License	Copyright (c): 2013-present, Yuxi (Evan) You
2	vux	0.1.3	MIT License	Copyright (c): 2016-present, Airyland
3	es6-promise	3.3	MIT License	Copyright (c): Yehuda Katz, Tom Dale, Stefan Penner and contributors

 BOSCH	OSS Attribution Document	DATE
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4	Quasar framework	0.5	MIT License	Copyright (c): 2015-present Razvan Stoenescu
5	tween.js	16.6	MIT License	Copyright (c): 2010-2012 Tween.js authors.
6	iScroll	5	MIT License	Copyright (c): 2014 Matteo Spinelli, cubiq.org
7	array-filter	1.0.0	MIT License	Copyright (c): 2013 Julian Gruber <julian@juliangruber.com>
8	array-find	1.0.0	MIT License	Copyright (c): Stefan Duberg <stefanduberg@gmail.com>
9	array-from	1.0.0	MIT License	Copyright (c): Studio B12 GmbH
10	array-map	0.0.0	MIT License	Copyright (c): James Halliday <mail@substack.net>
11	array-shuffle	1.0.0	MIT License	Copyright (c): Sindre Sorhus <sindresorhus@gmail.com>
12	countup	1.6.1	MIT License	Copyright (c): Jamie Perkins
13	object-assign	4.1.0	MIT License	Copyright (c): Sindre Sorhus <sindresorhus@gmail.com>
14	photoswipe	4.1	MIT License	Copyright (c): Dmitry Semenov
15	shake.js	1.2.2	MIT License	Copyright (c): Fractal <contact@wearefractal.com>
16	validator	5.1.0	MIT License	Copyright (c): 2018 Chris O'Hara <cohara87@gmail.com>
17	webp-support	1.0.3	MIT License	Copyright (c): 2016-present, Airyland
18	HTML Parser		Mozilla Public License , Apache Software License 2.0	Copyright (c): 2004 Erik Arvidsson

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19	archiver	2.1.0	MIT License	Copyright (c): 2012-2014 Chris Talkington
20	async	2.6.3	MIT License	Copyright (c): 2010-2018 Caolan McMahon
21	bluebird	3.5.5	MIT License	Copyright (c): 2013-2018 Petka Antonov
22	extract-zip	1.7.0	BSD-2-Clause License	Copyright (c): 2014 Max Ogden
23	fs-extra	2.1.2	MIT License	Copyright (c): 2011-2017 JP Richardson
24	iconv-lite	0.4.24	MIT License	Copyright (c): 2011 Alexander Shtuchkin
25	is-online	7.0.0	MIT License	Copyright (c): Sindre Sorhus <sindresorhus@gmail.com>
26	json-rpc2	1.0.2	MIT License	Copyright (c): 2009 Eric Florenzano, Ryan Tomayko
27	lodash	4.17.15	MIT License	Copyright (c): JS Foundation
28	progress-stream	2.0.0	BSD-2-Clause License	Copyright (c): Tobias Baunbæk <freeall@gmail.com>
29	scp2	0.5.0	MIT License	Copyright (c): 2013 Hsiaoming Yang
30	ssh2	0.5.5	MIT License	Copyright (c): Brian White
31	sshpk	1.61.1	MIT License	Copyright (c): Joyent, Inc
32	targz	1.0.1	MIT License	Copyright (c): Miska Kaipainen <miska.kaipainen@gmail.com>
33	vboxmanage.js	1.0.6	MIT License	Copyright (c): 2016 Daniel Cohen Gindi
34	xml2js	0.4.23	MIT License	Copyright (c): 2010, 2011, 2012, 2013. All rights reserved.
35	requirejs	2.1.1	MIT License	Copyright (c): jQuery Foundation
36	semver	2.1.0	ISC License	Copyright (c): Isaac Z. Schlueter
37	SlowAES	0.1a1	Apache License	Copyright (c): Josh Davis

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38	which	1.0.5	ISC License	Copyright (c): Isaac Z. Schlueter
39	eventemitter2	1.0.0	MIT License	Copyright (c): 2016 Paolo Fragomeni
40	moment.js	2.24.0	MIT License	Copyright (c): 2016 Paolo Fragomeni
41	bootstrap	2.3.1	MIT License	Copyright (c): 2011-2018 Twitter, Inc. Copyright (c): 2011-2018 The Bootstrap Authors
42	flexbuffers	1.7.1	Apache 2.0	https://obigo.com/
43	etch	1.4.0	Apache license, v2	Copyright (C) 2012 BMW Car IT GmbH
44	CppSQLite -C++ Wrapper for SQLite	3.2	CPOL 1.02	Copyright (c): 2004..2007 Rob Groves. All Rights Reserved. rob.groves@btinternet.com
45	afl-fuzz	2.31b	Apache 2.0 License	https://obigo.com/
46	android craxy linker		BSD 3 License	Copyright (c): 2014 The Chromium Authors
47	platform_system_core		Apache 2.0 License	https://obigo.com/
48	angle	master_2014-10-03	BSD 3 License	Copyright (c): 2002-2013 The ANGLE Project Authors.
49	Blink		LGPL 2.1	Copyright (c): 2014 The Chromium Authors.
50	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	cacheinvalidation	master_2014-09-04	Apache 2.0 License	https://obigo.com/
55	cld2	master_2017-12-14	Apache 2.0 License	https://obigo.com/
56	fontconfig	2.11.0	MIT License	Copyright (c): 2012 Google, Inc.

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57	compact_encodin g_detection		Apache 2.0 License	Copyright (c): 2016 Google Inc.
58	cld3	2f6624f0a6d6fd8f76bdcae38558c73 d23ebec1e	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.
63	flac	1.3.1	BSD 3 License	Copyright (c): 2011- 2014 Xiph.Org Foundation
64	flatbuffers	v1.2.0	Apache 2.0 License	Copyright (c): 2014 Google Inc
65	freetype2	VER-2-8-1	Custom License (Free type Project License)	https://obigo.com/
66	glslang	GoogleGlsLang20160218	MIT License	Copyright (c): 2015- 2016 The Khronos Group Inc.
67	googlemock	release-1.7.0	BSD 3 License	Copyright (c): 2008, Google Inc.
68	googletest	release-1.7.0	BSD 3 License	Copyright (c): 2008, Google Inc.
69	grpc	1.4.7	BSD 3 License	Copyright (c): 2015, Google Inc.
70	harfbuzz	1.3.1	MIT License	Copyright (c): 2010,2011,2012 Google, Inc
71	iccjpeg	32.0.1700.102	Custom License	Copyright (c): 1991- 1998, Thomas G. Lane.
72	icu	56.1	ICU license	Copyright (c): 1995- 2015 International Business Machines Corporation and others
73	jsoncpp-svn	0.6.0-rc2	MIT License	Copyright (c): 2007- 2010 Baptiste Lepilleur

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74	khronos_headers		MIT License, SGI Free Software License B	Copyright (c): 2007-2010 The Khronos Group Inc.
75	leveldb	1.2	BSD 3 License	Copyright (c): 2011 The LevelDB Authors. All rights reserved.
76	libaddressinput	master_2014-10-07	Apache 2.0 License	https://obigo.com/
77	libevent	1.4.15-stable	BSD 3 License	Copyright (c): 2007-2010 Niels Provos and Nick Mathewson
78	dist-llvm	master_2010-04-15	University of Illinois/NCSA 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	libphonenumbers	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
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Copyright FAQ

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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?

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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?

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V3.0	03/08/2004	-Initial Version for sqlite3
V3.1	16/09/2004	-Implemented getXXXXField using sqlite3 functions -Added CppSQLiteDB3::tableExists()
V3.2	01/07/2005 12/07/2007	-Fixed execScalar to handle a NULL result -Added CppSQLiteDB::IsAutoCommitOn() -Added int64 functions to CppSQLite3Query -Added Name based parameter binding to CppSQLite3Statement.
V3.3	02/14/2019	-Added CppSQLite3Statement(__sqlite3* pDB, __sqlite3_stmt* pVM); CppSQLite3Statement::bind(int nParam, const sqlite_int64 nValue); CppSQLite3Statement::bind(int nParam, const uint64_t nValue); CppSQLite3Statement::Step() CppSQLite3Statement::DoTransaction(const char *str) CppSQLite3Statement::BeginTransaction() CppSQLite3Statement::CommitTransaction() CppSQLite3Statement::RollbackTransaction() CppSQLite3DB::getDB() CppSQLite3DB::RestoreOrBackupDb() by OBIGO

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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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1.6	1.5.2	2000	CNRI	no
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2.1	2.0+1.6.1	2001	PSF	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
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Modified files

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

- gen.py Fix coroutines in cython-compiled code
- gen_test.py Add a compiler directive to get gen_test (mostly) working when cythonized
- options.py Work around cython incompatibilities in options.py
- options_test.py Work around cython incompatibilities in options.py
- util.py Make ArgReplacer compatible with cython.

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

4.105.zlib license

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

version 1.2.4, March 14th, 2010


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root function must still compute square roots.)

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


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

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

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

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(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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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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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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Release	Derived	Year	Owner	GPL-
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0.9.0 thru 1.2	1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI yes
1.6	1.5.2	2000	CNRI no
2.0	1.6	2000	BeOpen.com no
1.6.1	1.6	2001	CNRI yes (2)
2.1	2.0+1.6.1	2001	PSF no
2.0.1	2.0+1.6.1	2001	PSF yes
2.1.1	2.1+2.0.1	2001	PSF yes
2.1.2	2.1.1	2002	PSF yes
2.1.3	2.1.2	2002	PSF yes
2.2 and above	2.1.1	2001-now	PSF yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's

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Modified files

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

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

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DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
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TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.

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

wizard.txt Advanced usage instructions for JPEG wizards only.

change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt How to use the JPEG library in your own programs.

example.c Sample code for calling the JPEG library.


structure.txt Overview of the JPEG library's internal structure.

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

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

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

OVERVIEW

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

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

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

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

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perform conversion between JPEG and some other popular image file formats.


The library is intended to be reused in other applications.

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

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

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

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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.iijg.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.iijg.org/files/jfif.ps.gz>. There is also a plain text version at <http://www.iijg.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.iijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

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ARCHIVE LOCATIONS

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

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

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

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/): <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>.

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FILE FORMAT WARS

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

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not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO


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

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