



LIBRE SYNC

LS9 Open Source Software Declaration

Revision: 1.1

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1. Document Information

1.1. Abstract

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1.2. Document Convention

Icon	Meaning	Description
	Note	Provides information good to know
	Caution	Indicates situation that might result in loss of data or hardware damage

1.3. Document Revision History

Revision	Date	Description of change	Author
1.1	May 26, 2020	Final Draft	Anoop/Mohan

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alsaloop	GPL v2.0 or later	1.0.27.2
alsaucm	LGPL v2.0 or later	1.0.27.2
amidi	GPL v2.0 or later	1.0.27.2
amixer	GPL v2.0 or later	1.0.27.2
ash	BSD Like	1.12
bdt	Apache2.0	AOSP 4.2.2
busybox	GPLv2	v1.20.1
curl	Curl License	7.52.1
debuggerd	Apache2.0	AOSP 4.2.2
dhcpcd	BSD like	5.2.10

Package	License	Version
dnsmasq	GPL v2.0 or later	2.51
toolbox	BSD	1.43
grep	NetBSD	1.4
toybox	BSD	0.6.0
gzip	BSD Like	1.4
hostapd	BSD	v2.5-devel-1.19
hostapd_cli	BSD	v2.5-devel-1.19
iecsset	GPL v2.0 or later	1.0.27.2
iperf	BSD Like	2.0.5
iwconfig	LGPL v2.1 or later	30
iwevent	LGPL v2.1 or later	30
iwlist	LGPL v2.1 or later	30
iwpriv	LGPL v2.1 or later	30
logcat	Apache2.0	AOSP 4.2.2
logwrapper	Apache2.0	AOSP 4.2.2
make_ext4fs	Apache2.0	AOSP 4.2.2
mdnsd	Apache2.0	AOSP 4.2.2
mediaserver	Apache2.0	AOSP 4.2.2

Package	License	Version
mksh	MirOS	R40
net_bdtool	Apache2.0	AOSP 4.2.2
netcfg	Apache2.0	AOSP 4.2.2
net_hci	Apache2.0	AOSP 4.2.2
openssl	OpenSSL & Original SSLey	1.0.2o
servicemanager	Apache2.0	AOSP 4.2.2
showlease	BSD Like	5.2.10
simg2img	Apache2.0	AOSP 4.2.2
speaker-test	GPL v2.0 or later	1.0.27.2
system_server	Apache2.0	AOSP 4.2.2
updater	Apache2.0	AOSP 4.2.2
wfd	Apache2.0	AOSP 4.2.2
wpa_cli	BSD	v2.5-devel-1.19
wpa_supplicant	BSD	v2.5-devel-1.19
XmodemTransfer	XmodemTranfer license	1.1
libasound	LGPL v2.1 or later	1.0.27.2
libaudioflinger	Apache2.0	AOSP 4.2.2

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libaudioutils	Apache2.0	AOSP 4.2.2
libbinder	Apache2.0	AOSP 4.2.2
libbt-vendor	Apache2.0	AOSP 4.2.2
libcommon_time	Apache2.0	AOSP 4.2.2
libconnectivitymanager	Apache2.0	AOSP 4.2.2
libcorkscrew	Apache2.0	AOSP 4.2.2
libcrypto	OpenSSL & Original SSLeay	1.0.11
libcurl	Curl License	7.52.1
libcutils	Apache2.0	AOSP 4.2.2
libddms_rtp	Apache2.0	AOSP 4.2.2
libexpat	MIT License	2.1.0
libext2_uuid	BSD Like	1.41.14
libext4_utils	Apache2.0	AOSP 4.2.2
libftp	LGPL v2.1 or later	2.0.4
libgabi++	Apache2.0	AOSP 4.2.2
libhardware_legacy	Apache2.0	AOSP 4.2.2
libhardware	Apache2.0	AOSP 4.2.2

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libicu4c	ICU 1.8.1	4.8.1.1
libJson	MIT License	1.6.2
libmdnssd	Apache2.0	320.108
libmediaplayerservice	Apache2.0	AOSP 4.2.2
libmedia	Apache2.0	AOSP 4.2.2
libnbaio	Apache2.0	AOSP 4.2.2
libnetutils	Apache2.0	AOSP 4.2.2
libnl	LGPLv2.1	2.0
libpagemap	Apache2.0	AOSP 4.2.2
libpng	BSD Like	1.6.31
libsparse	Apache2.0	AOSP 4.2.2
libspeexresampler	BSD Like	1.1.15
libssl	OpenSSL & Original SSLeay	1.0.11
libstagefright_amrnb_common	Apache2.0	AOSP 4.2.2
libstagefright_avc_common	Apache2.0	AOSP 4.2.2
libstagefright_chromium_http	Apache2.0	AOSP 4.2.2
libstagefright_enc_common	Apache2.0	AOSP 4.2.2

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libstagefright_foundation	Apache2.0	AOSP 4.2.2
libstagefright_httplive	Apache2.0	AOSP 4.2.2
libstagefright_omx	Apache2.0	AOSP 4.2.2
libstagefright	Apache2.0	AOSP 4.2.2
libstagefright_soft_aacdec	Apache2.0	AOSP 4.2.2
libstagefright_soft_aacenc	Apache2.0	AOSP 4.2.2
libstagefright_soft_alacdec	Apache2.0	AOSP 4.2.2
libstagefright_soft_amrdec	Apache2.0	AOSP 4.2.2
libstagefright_soft_flacdec	Apache2.0	AOSP 4.2.2
libstagefright_soft_mp3dec	Apache2.0	AOSP 4.2.2
libstagefright_soft_rawdec	Apache2.0	AOSP 4.2.2
libstagefright_soft_vorbisdec	Apache2.0	AOSP 4.2.2
libstagefright_wfd	Apache2.0	AOSP 4.2.2
libsync	Apache2.0	AOSP 4.2.2
libsystem_server	Apache2.0	AOSP 4.2.2
libsysutils	Apache2.0	AOSP 4.2.2
libtinyalsa	BSD	AOSP 4.2.2
libui	Apache2.0	AOSP 4.2.2

Package	License	Version
libupnp	BSD	3
libusbhost	Apache2.0	AOSP 4.2.2
libutils	Apache2.0	AOSP 4.2.2
libvorbisidec	BSD Like	AOSP 4.2.2
libwac_ark	Apache2.0	AOSP 4.2.2
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libz	BSD Like	1.2.5
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audio.primary.default	Apache2.0	AOSP 4.2.2
audio.r_submix.default	Apache2.0	AOSP 4.2.2
bluetooth.default	Apache2.0	AOSP 4.2.2
local_time.default	Apache2.0	AOSP 4.2.2
libjpeg	BSD Like	8.4.0
zlib	BSD Like	1.2.11
libgraphicsmagick	MIT License	1.3.35
Linux Kernel	GPL v2.0 or later	3.8.13

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bdtd

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debuggerd

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logcat

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make_ext4fs

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mediaserver

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net_bdtool

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netcfg

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net_hci

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servicemanager

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simg2img

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system_server

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libsystem_server

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hostapd_cli

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wpa_cli

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dhcpcd

dhcpcd - DHCP client daemon

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gzip

zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.8, April 28th, 2013

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iperf

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Iperf performance test

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showlease

dhcpcd - DHCP client daemon

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libext2_uid

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libjpeg

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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.

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REFERENCES Where to learn more about JPEG.

ARCHIVE LOCATIONS Where to find newer versions of this software.

ACKNOWLEDGMENTS Special thanks.

FILE FORMAT WARS Software *not* to get.

TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt How to configure and install the IJG software.

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.

filelist.txt Road map of IJG files.

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

Please read at least the files install.txt and 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

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 gray-scale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet.

We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

The library is intended to be reused in other applications.

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

(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 PostScript file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/wallace.ps.gz>. 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).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not

publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

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 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.

IJG JPEG 8 introduces an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from

<http://www.ecma-international.org/publications/techreports/E-TR-098.htm>.

A PostScript version of the JFIF document is available at

<http://www.ijg.org/files/jfif.ps.gz>. There is also a plain text version at

<http://www.ijg.org/files/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.

IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).

Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <http://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.ijg.org/files/jpegsr8d.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr8d.zip>.

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/>.

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ACKNOWLEDGMENTS

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (also known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

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Thank to Andrew Finkenstadt for hosting the ijg.org site.

Last but not least special thank to Thomas G. Lane for the original design and development of this singular software package.

FILE FORMAT WARS

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies.

IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. 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.)

Furthermore, the ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification.

There are currently distributions in circulation containing the name "libjpeg" which claim to be a "derivative" or "fork" of the original libjpeg, but don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. Furthermore, they violate the license conditions as described under LEGAL ISSUES above. We have no sympathy for the release of misleading and illegal distributions derived from obsolete code bases. Don't use an obsolete code base!

TO DO

Version 8 is the first release of a new generation JPEG standard to overcome the limitations of the original JPEG specification. More features are being prepared for coming releases...

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

zlib

zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.11, January 15th, 2017

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iwconfig

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libasound

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alsactl

Advanced Linux Sound Architecture Control Program

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alsalooop

A simple PCM loopback utility with adaptive sample rate support

Author: Jaroslav Kysela perex@perex.cz

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amidi

amidi.c - read from/write to RawMIDI ports

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amixer

ALSA command line mixer utility

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iecset

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```

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```

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