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<https://github.com/libjpeg-turbo/libjpeg-turbo/blob/3.1.0/README.ijg>
libjpeg-turbo note: This file has been modified by The libjpeg-turbo
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to include only information relevant to libjpeg-turbo, to wordsmith
certain
sections, and to remove impolitic language that existed in the libjpeg
v8
README. It is included only for reference. Please see README.md for
information specific to libjpeg-turbo.

The Independent JPEG Group's JPEG software

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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.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

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

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

doc/wizard.txt Advanced usage instructions for JPEG wizards only.

doc/change.log Version-to-version change highlights.

Programmer and internal documentation:

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

src/example.c Sample code for calling the JPEG library.

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

doc/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 normally 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, progressive, and lossless 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 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. 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. We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

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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. (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 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 version 1 has been adopted as ISO/IEC 10918-5 (05/2013) and Recommendation ITU-T T.871 (05/2011): Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is

available as a free download in PDF file format from
<https://www.iso.org/standard/54989.html> and <http://www.itu.int/rec/T-REC-T.871>.

A PDF file of the older JFIF 1.02 specification is available at
<http://www.w3.org/Graphics/JPEG/jfif3.pdf>. The TIFF 6.0 file format specification can be obtained from
<http://mirrors.ctan.org/graphics/tiff/TIFF6.ps.gz>.
The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <http://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available at <http://www.faqs.org/faqs/jpeg-faq>.

FILE FORMAT COMPATIBILITY

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This software implements ITU T.81 | ISO/IEC 10918 with some extensions from ITU T.871 | ISO/IEC 10918-5 (JPEG File Interchange Format-- see REFERENCES). Informally, the term "JPEG image" or "JPEG file" most often refers to JFIF or a subset thereof, but there are other formats containing the name "JPEG" that are incompatible with the original JPEG standard or with JFIF (for instance, JPEG 2000 and JPEG XR). This software therefore does not support these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on a common, interoperable format standard for JPEG files. JFIF is a minimal or "low end" representation.

TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) can be used for "high end" applications that need to record a lot of additional data about an image.

TO DO

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Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.
http://zlib.net/zlib_license.html

```
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Fourth Party dependencies
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org.slf4j: slf4j-api
org.slf4j: slf4j-jdk14
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com.hazelcast.internal.util.concurrent

and the classes:

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com.hazelcast.client.impl.protocol.util.UnsafeBuffer
com.hazelcast.client.impl.protocol.util.BufferBuilder

contain code originating from the Agrona project
(<https://github.com/real-logic/Agrona>).

The class com.hazelcast.internal.util.HashUtil contains code originating
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The class classloading.ThreadLocalLeakTestUtils contains code
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com.hazelcast.internal.cluster.fd.PhiAccrualFailureDetector contains
code originating
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The package com.hazelcast.internal.json contains code originating
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The class com.hazelcast.instance.impl.MobyNames contains code
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from The Moby Project (<https://github.com/moby/moby>).

The class com.hazelcast.internal.util.graph.BronKerboschCliqueFinder
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The class com.hazelcast.jet.kafka.impl.ResumeTransactionUtil contains
code derived from the Apache Flink project.

The class com.hazelcast.internal.util.ConcurrentReferenceHashMap
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com.hazelcast.cp.internal.raft.impl.state.FollowerState
com.hazelcast.cp.internal.raft.impl.state.FollowerStateTest
com.hazelcast.cp.internal.raft.impl.SlowFollowerBackoffTest

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com.sun.istack:istack-commons-runtime
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- * <https://github.com/luben/zstd-jni>

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* <https://github.com/luben/zstd-jni>

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org.slf4j:slf4j-api
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- * <https://code.google.com/p/jzip2/>

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- * <https://github.com/y-256/libdivsufsort>

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- * <https://github.com/JCTools/JCTools>

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- * <https://github.com/jpountz/lz4-java>

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- * <https://github.com/jponge/lzma-java>

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- * <https://github.com/luben/zstd-jni>

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* LOCATION_IN_GRPC:
* xds/third_party/protoc-gen-validate
```

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* HOMEPAGE:
* https://github.com/cncf/udpa
* LOCATION_IN_GRPC:
* xds/third_party/udpa
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- * <http://gee.cs.oswego.edu/cgi-bin/viewcvcs.cgi/jsr166/>
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* <https://code.google.com/p/jzip2/>

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* HOMEPAGE:
* <https://github.com/y-256/libdivsufsort>

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* <https://github.com/JCTools/JCTools>

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* HOMEPAGE:
* <http://www.jcraft.com/jzlib/>

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* HOMEPAGE:
* <https://github.com/ning/compress>

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- * <https://github.com/jpountz/lz4-java>

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- * HOMEPAGE:
- * <https://github.com/jponge/lzma-java>

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- * HOMEPAGE:
- * <https://github.com/luben/zstd-jni>

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- * <https://code.google.com/p/jfastlz/>

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- * <https://github.com/google/protobuf>

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* <https://logging.apache.org/log4j/>

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* <https://github.com/twitter/hpack>

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* <https://github.com/python-hyper/hpack/>

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* <https://github.com/nghttp2/nghttp2/>

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* <https://commons.apache.org/proper/commons-lang/>

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* <https://github.com/takari/maven-wrapper>

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mDNSResponder (<https://opensource.apple.com/tarballs/mDNSResponder/>).

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* HOMEPAGE:
* <https://www.opensource.apple.com/source/configd/configd-453.19/dnsinfo/dnsinfo.h>

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* HOMEPAGE:
* <https://github.com/hyperxpro/Brotli4j>

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* <https://svn.apache.org/repos/asf/tomcat/native/>

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- * <https://ftp.netbsd.org/pub/NetBSD/NetBSD-current/src/crypto/external/bsd/openssl/dist>

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

- org.apache.taglibs:taglibs-standard-spec
- org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Other developers who have contributed code are:

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Gunnar Morling
Hardy Ferentschik
Hendrik Ebbers
Kevin Pollet
Sebastian Thomschke

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from <http://aspell.net/test/orig/batch0.tab>.
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