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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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### GCC

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Version 3.1, 31 March 2009

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With Revisions by: Steve Grubb <sgrubb@redhat.com> Contributions by: Xavier Toth <txtoth@gmail.com>,

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@version 3.0 (December 2000)

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@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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## **Independent JPEG Group**

| The Independent JPEG Group's JPEG software |
|--|
|  |
| README for release 8c of 16-Jan-2011       |
|  |

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# DOCUMENTATION ROADMAP

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. ACKNOWLEDGMENTS Special thanks. FILE FORMAT WARS Software \*notto 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. coderules.txt Coding style rules --- please read if you contribute code.

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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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# **Dhcpcd**

dhcpcd - DHCP client daemon
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