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## 1. FS045W 本体

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Name	Version	License
alsa-lib	1.0.29	LGPL-2.1
attr	2.4.47	LGPLv2.1+ & GPLv2+
base-passwd	3.5.29	GPLv2+
bash	4.3.30	GPLv3+
busybox	1.23.2	GPLv2 & bzip2
bzip2	1.0.6	bzip2
ca-certificates	20150426	GPL-2.0+ & MPL-2.0
conntrack-tools	1.0.1	GPLv2+
cryptodev-linux	1.7	GPLv2
curl	7.44.0	MIT
db	6.0.30	AGPL-3.0
dbus	1.8.20	AFL-2   GPLv2+
dbus-glib	0.104	AFL-2   GPLv2+
directfb	1.7.7	LGPLv2.1
dnsmasq	2.68	GPL-2.0 GPL-3.0
e2fsprogs	1.42.9	GPLv2 & LGPLv2 & BSD & MIT
ebtables	v2.0.10-4	GPLv2
ethtool	3.14	GPLv2

expat	2.1.0	MIT
freetype	2.6	FreeType   GPLv2+
gawk	4.1.3	GPLv3
gcc-runtime	4.9.3	GPL-3.0-with-GCC-exception GPLv3
gdbm	1.11	GPLv3
gettext	0.19.4	GPLv2
glib-2.0	1_2.44.1	LGPLv2+ & BSD & PD
glibc	2.22	GPLv2 & LGPLv2.1
glibc-initial	2.22	GPLv2 & LGPLv2.1
gmp	6.0.0	GPLv2+   LGPLv3+
gnutls	3.3.17.1	GPLv3+ & LGPLv2.1+
init-ifupdown	1	GPLv2
iproute2	3.16.0	GPLv2+
iptables	1.4.12.1	GPLv2+
iputils	s20101006	BSD & GPLv2+
iw	3.6	BSD
jpeg	9a	BSD-3-Clause
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kmod	21+gitAUTOINC+114ec87c85	GPL-2.0+ & LGPL-2.1+
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libcap	2.24	BSD   GPLv2
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libusb-compat	1_0.1.5	LGPLv2.1+
libxml2	2.9.2	MIT
linux-libc-headers	4.1	GPLv2

lzo	2. 09	GPLv2+
miniupnpd	1. 9. 20150307	BSD
modutils-initscripts	1	PD
mtd-utils	1	GPLv2
ncurses	5. 9	MIT
netbase	1_5. 3	GPLv2
nettle	3. 1. 1	LGPLv3+   GPLv2+
ntpclient	2007_365	GPL-2. 0
openssl	1. 0. 2h	openssl
opkg-utils	0. 1. 8+gitAUTOINC+53274f0875	GPLv2+
pciutils	3. 3. 1	GPLv2+
perl	5. 22. 0	GPL-1. 0 Artistic-1. 0
pkg-config	0. 28+gitAUTOINC+40342dd0ea	GPLv2+
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pugixml	1. 4	MIT
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rtsp-alg	3. 7	GPLv2
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shadow-securetty	4. 2. 1	MIT
sqlite3	3_3. 8. 10. 2	PD
sysfsutils	2. 1. 0	GPLv2 & LGPLv2. 1
sysklogd	1. 5	GPL-2. 0
sysvinit	2. 88dsf	GPLv2+
sysvinit-inittab	2. 88dsf	GPLv2
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wireless-tools	30. pre9	GPLv2
zlib	1. 2. 8	Zlib

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attr 2.4.47 LGPLv2.1+ & GPLv2+

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
This library is free software; you can redistribute it and/or  
modify it under the terms of the GNU Lesser General Public  
License as published by the Free Software Foundation; either  
version 2.1 of the License, or (at your option) any later version.
```

```
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```

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USA
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

---

base-passwd 3.5.29 GPLv2+

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Version 2, June 1991

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
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it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

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```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items—whatever suits your program.

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<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

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bash 4.3.30 GPLv3+

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Version 3, 29 June 2007

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- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
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[jseward@bzip.org](mailto:jseward@bzip.org)

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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bzip2 1.0.6 bzip2

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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```
curl 7.44.0 MIT
```

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zlib [http://www.zlib.net/zlib\\_license.html](http://www.zlib.net/zlib_license.html)

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db 6.0.30 AGPL-3.0

---

```
/*-
 * $Id$
 */
```

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directfb 1.7.7 LGPLv2.1

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Theodore Ts'o  
23-June-2007

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```
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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were  
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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ebtables	v2.0.10-4	GPLv2
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gawk 4.1.3 GPLv3

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Gawk was written by Paul Rubin, and finished by Paul Finlason and Richard Stallman.

David Trueman and Arnold Robbins took it over, with David doing most of the work to make it compatible with new awk.

Circa 1994, Arnold Robbins took over maintenance.

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gcc-runtime	4.9.3	GPL-3.0-with-GCC-exception GPLv3
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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.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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\*RUNTIME

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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\*GPL v3

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Version 3, 29 June 2007

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A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be

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gettext 0.19.4 GPLv2

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Version 3, 29 June 2007

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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Version 2.1, February 1999

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```
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```
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init-ifupdown 1          GPLv2

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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 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 introduced 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.

IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

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

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The "official" archive site for this software is [www.ijg.org](http://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/jpegsrc.v9a.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr9a.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/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body

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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 (previously 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](http://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

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The ISO/IEC JTC1/SC29/WG1 standards committee (previously 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.)

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.

Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.

The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.

We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.

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TO DO

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Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec. More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to [jpeg-info@jpegclub.org](mailto:jpeg-info@jpegclub.org).

-----  
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```
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```

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libcutils            1            Apache-2.0

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libffi 3.2.1 MIT

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libgcc 4.9.3 GPL-3.0-with-GCC-exception

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#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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Version 3.1, 31 March 2009

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libtool-cross 2.4.6 GPLv2

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libusb1 1.0.19 LGPLv2.1+

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libusb-compat 1\_0.1.5 LGPLv2.1+

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libxml2 2.9.2    MIT

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```
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mtd-utils      1      GPLv2

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openssl 1.0.2h openssl

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perl 5.22.0 GPL-1.0 Artistic-1.0

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```

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\*Artistic-1.0

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pkg-config      0.28+gitAUTOINC+40342dd0ea      GPLv2+

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pugixml 1.4      MIT

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python 2.7.9 PSFv2

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#### A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes



the various releases.

Release	Derived from	Year	Owner	GPL- compatible? (1)
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

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Python Documentation README

~~~~~

This directory contains the reStructuredText (reST) sources to the Python documentation. You don't need to build them yourself, prebuilt versions are available at <<https://docs.python.org/dev/download.html>>.

Documentation on authoring Python documentation, including information about both style and markup, is available in the "Documenting Python" chapter of the developers guide <<https://docs.python.org/devguide/documenting.html>>.

### Building the docs

=====

You need to have Sphinx <<http://sphinx-doc.org/>> installed; it is the toolset used to build the docs. It is not included in this tree, but maintained separately and available from PyPI <<https://pypi.python.org/pypi/Sphinx>>.

### Using make

-----

A Makefile has been prepared so that on Unix, provided you have installed Sphinx, you can just run ::

```
make html
```

to build the HTML output files.

On Windows, we try to emulate the Makefile as closely as possible with a ``make.bat`` file.

To use a Python interpreter that's not called ``python``, use the standard way to set Makefile variables, using e.g. ::

```
make html PYTHON=python3
```

On Windows, set the PYTHON environment variable instead.

To use a specific sphinx-build (something other than ``sphinx-build``), set

the SPHINXBUILD variable.

Available make targets are:

- \* "clean", which removes all build files.
- \* "html", which builds standalone HTML files for offline viewing.
- \* "htmlview", which re-uses the "html" builder, but then opens the main page in your default web browser.
- \* "htmlhelp", which builds HTML files and a HTML Help project file usable to convert them into a single Compiled HTML (.chm) file — these are popular under Microsoft Windows, but very handy on every platform.

To create the CHM file, you need to run the Microsoft HTML Help Workshop over the generated project (.hhp) file. The make.bat script does this for you on Windows.

- \* "latex", which builds LaTeX source files as input to "pdflatex" to produce PDF documents.
- \* "text", which builds a plain text file for each source file.
- \* "epub", which builds an EPUB document, suitable to be viewed on e-book readers.
- \* "linkcheck", which checks all external references to see whether they are broken, redirected or malformed, and outputs this information to stdout as well as a plain-text (.txt) file.
- \* "changes", which builds an overview over all versionadded/versionchanged/deprecated items in the current version. This is meant as a help for the writer of the "What's New" document.
- \* "coverage", which builds a coverage overview for standard library modules and C API.
- \* "pydoc-topics", which builds a Python module containing a dictionary with



plain text documentation for the labels defined in  
``tools/pyspecific.py`` -- pydoc needs these to show topic and keyword help.

- \* "suspicious", which checks the parsed markup for text that looks like malformed and thus unconverted reST.
- \* "check", which checks for frequent markup errors.
- \* "serve", which serves the build/html directory on port 8000.
- \* "dist", (Unix only) which creates distributable archives of HTML, text, PDF, and EPUB builds.

#### Without make

-----

Install the Sphinx package and its dependencies from PyPI.

Then, from the ``Doc`` directory, run ::

```
sphinx-build -b<builder> . build/<builder>
```

where ``<builder>`` is one of html, text, latex, or htmlhelp (for explanations see the make targets above).

#### Contributing

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History and License  
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History of the software

=====

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 (now Zope Corporation; see <http://www.zope.com/>). 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 is a sponsoring member of the PSF.

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| 2.0            | 1.6          | 2000      | BeOpen.com | no              |
| 1.6.1          | 1.6          | 2001      | CNRI       | no              |
| 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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| 2. 1. 3        | 2. 1. 2      | 2002     | PSF     | yes     |         |
| +-----+        | +-----+      | +-----+  | +-----+ | +-----+ | +-----+ |
| 2. 2 and above | 2. 1. 1      | 2001-now | PSF     | yes     |         |
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#### Mersenne Twister

-----

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

## Sockets

---

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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MD5 message digest algorithm  
-----

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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

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The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of `md5.h` is L. Peter Deutsch  
<ghost@aladdin.com>. Other authors are noted in the change history

that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.  
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.  
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.  
1999-05-03 lpd Original version.

#### Asynchronous socket services

-----

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Cookie management  
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#### UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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-----

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test\_epoll

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Select kqueue

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strtod and dtoa

-----

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expat

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libffi

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zlib

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qrencode      3.4.4      LGPL-2.1

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Parts of the QCrashHandler class

Parts of the FreeType projects have been modified and put into Qt for use in the painting subsystem. These files are ftraster.h, ftraster.c, ftgrays.h and ftgrays.c. The following modifications has been made to these files:

Renamed FT\_ and ft\_ symbols to QT\_FT\_ and qt\_ft\_ to avoid name conflicts in qrasterdefs\_p.h.

Removed parts of code not relevant when compiled with \_STANDALONE\_ defined.

Changed behavior in ftraster.c to follow X polygon filling rules.

Implemented support in ftraster.c for winding / odd even polygon fill rules.

Replaced bitmap generation with span generation in ftraster.c.

Renamed ftraster.h as qblackraster\_p.h.

Renamed ftraster.c as qblackraster.c.

Renamed ftgrays.h as qgrayraster\_p.h.

Renamed ftgrays.c as qgrayraster.c.

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pnmscale.c – read a portable anymap and scale it

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`src/corelib/io/qurl.cpp`



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src/corelib/tools/qlocale.cpp

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QAxServer Module

QAxContainer Module

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QTestLib Manual

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Parts of the QCrashHandler class

Parts of the FreeType projects have been modified and put into Qt for use in the painting subsystem. These files are ftraster.h, ftraster.c, ftgrays.h and ftgrays.c. The following modifications has been made to these files:

Renamed FT\_ and ft\_ symbols to QT\_FT\_ and qt\_ft\_ to avoid name conflicts in qrasterdefs.p.h.

Removed parts of code not relevant when compiled with \_STANDALONE\_ defined.

Changed behavior in ftraster.c to follow X polygon filling rules.

Implemented support in ftraster.c for winding / odd even polygon fill rules.

Replaced bitmap generation with span generation in ftraster.c.

Renamed ftraster.h as qblackraster.p.h.

Renamed ftraster.c as qblackraster.c.

Renamed ftgrays.h as qgrayraster.p.h.

Renamed ftgrays.c as qgrayraster.c.

See src/3rdparty/freetype/docs/FTL.txt and src/3rdparty/freetype/docs/GPL.txt for license details.

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Parts of the internal QMap class on X11 platforms  
pnmscale.c – read a portable anymap and scale it

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Parts of the internal QImageSmoothScaler::scale() function use code based on pnmscale.c by Jef Poskanzer.

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examples/webkit/fancybrowser/jquery.min.js

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src/corelib/io/qurl.cpp

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We hope there are not too many omissions from the list. Please submit any corrections to the Task Tracker on the Qt website.

#### 「The qtmain Library」

##### The qtmain Library

qtmain is a helper library that enables the developer to write a cross-platform main() function on Windows and on the Symbian platform. If you do not use qmake or other build tools such as CMake, then you need to link against the qtmain library.

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##### Third-Party Licenses Used in Qt

Qt includes a number of third-party libraries that are used to provide certain features. Unlike the code described in the code used in Qt document, these libraries are supplied alongside the Qt modules.

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Run `configure -help` to see any options that may be available for controlling the use of these libraries.

Modifications, if any, done to the third-party libraries can normally be found by reviewing the change history of the corresponding files in the public Qt repository.

##### DES (des.cpp)

Implementation of DES encryption for NTLM

Copyright 1997–2005 Simon Tatham.

This software is released under the MIT license.

See `src/3rdparty/des/des.cpp` for more information about the terms and conditions under which the code is supplied.

##### FreeType 2 (freetype) version 2.3.6



The FreeType project is a team of volunteers who develop free, portable and high-quality software solutions for digital typography. We specifically target embedded systems and focus on bringing small, efficient and ubiquitous products. -- quoted from `3rdparty/freetype/docs/freetype2.html`.

See `src/3rdparty/freetype/docs/FTL.txt` and `src/3rdparty/freetype/docs/GPL.txt` for license details.

See also the files in `src/3rdparty/harfbuzz`, which are used by FreeType.

Parts of the FreeType projects have been modified and put into Qt for use in the painting subsystem. These files are `ftraster.h`, `ftraster.c`, `ftgrays.h` and `ftgrays.c`. The following modifications has been made to these files:

Renamed `FT_` and `ft_` symbols to `QT_FT_` and `qt_ft_` to avoid name conflicts.  
Removed parts of code not relevant when compiled with `_STANDALONE_` defined.  
Changed behavior in `ftraster.c` to follow X polygon filling rules.  
Implemented support in `ftraster.c` for winding / odd even polygon fill rules.  
Replaced bitmap generation with span generation in `ftraster.c`  
Renamed: `ftraster.h` to `qblackraster_p.h`  
Renamed: `ftraster.c` to `qblackraster.c`  
Renamed: `ftgrays.h` to `qgrayraster_p.h`  
Renamed: `ftgrays.c` to `qgrayraster.c`  
HarfBuzz (`harfbuzz`)

This is HarfBuzz, an OpenType Layout engine library. -- quoted from `src/3rdparty/harfbuzz/README`.

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This is part of HarfBuzz, an OpenType Layout engine library.

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See `src/3rdparty/harfbuzz/COPYING` for license details.

The Independent JPEG Group's JPEG Software (libjpeg) version 8c  
This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. — quoted from `src/3rdparty/libjpeg/README`.

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See src/3rdparty/libjpeg/README for license details.

MD4 (md4.cpp and md4.h)

MD4 (RFC-1320) message digest.

Modified from MD5 code by Andrey Panin <pazke@donpac.ru>

Written by Solar Designer <solar@openwall.com> in 2001, and placed in the public domain. There's absolutely no warranty.

See src/3rdparty/md4/md4.cpp and src/3rdparty/md4/md4.h for more information about the terms and conditions under which the code is supplied.

MD5 (md5.cpp and md5.h)

This code implements the MD5 message-digest algorithm. The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed. This code is in the public domain; do with it what you wish. -- quoted from src/3rdparty/md5/md5.h

See src/3rdparty/md5/md5.cpp and src/3rdparty/md5/md5.h for more information

about the terms and conditions under which the code is supplied.

#### MNG Library (libmng) version 1.0.10

The libmng library supports decoding, displaying, encoding, and various other manipulations of the Multiple-image Network Graphics (MNG) format image files. It uses the zlib compression library, and optionally the JPEG library by the Independent JPEG Group (IJG) and/or lcms (little cms), a color-management library by Marti Maria Saguer. -- quoted from src/3rdparty/libmng/doc/libmng.txt

See src/3rdparty/libmng/LICENSE for license details.

#### PNG Reference Library (libpng) version 1.5.1

Libpng was written as a companion to the PNG specification, as a way of reducing the amount of time and effort it takes to support the PNG file format in application programs. -- quoted from src/3rdparty/libpng/libpng-manual.txt.

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The `ptmalloc` memory allocator (`ptmalloc3`) version 1.8  
`ptmalloc3` is a scalable concurrent memory allocator suitable for use in multi-threaded programs.

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SHA-1 (`sha1.cpp`)

Based on the public domain implementation of the SHA-1 algorithm

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See `src/3rdparty/sha1/sha1.cpp` for more information about the terms and conditions under which the code is supplied.

SQLite (`sqlite`) version 3.7.7.1

SQLite is a small C library that implements a self-contained, embeddable, zero-configuration SQL database engine. — quoted from [www.sqlite.org](http://www.sqlite.org).

According to the comments in the source files, the code is in the public domain. See the SQLite Copyright page on the SQLite web site for further information.

TIFF Software Distribution (`libtiff`) version 3.9.2

`libtiff` is a set of C functions (a library) that support the manipulation of TIFF image files. — quoted from `src/libtiff/html/libtiff.html`

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See `src/3rdparty/libtiff/README` for license details.

Wintab API (`wintab`)

Wintab is a de facto API for pointing devices on Windows. The wintab code is from <http://www.pointing.com/WINTAB.HTM>.

See `src/3rdparty/wintab/wintab.h` for license details.

Data Compression Library (`zlib`) version 1.2.5

`zlib` is a general purpose data compression library. All the code is thread safe. The data format used by the `zlib` library is described by RFCs (Request for Comments) 1950 to 1952 — quoted from `src/3rdparty/zlib/README`.

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Pixman (pixman) version 0.17.11

pixman is a library that provides low-level pixel manipulation features such as image compositing and trapezoid rasterization. -- quoted from  
src/3rdparty/pixman/README

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Author: Siarhei Siamashka (siarhei.siamashka@nokia.com)

See src/3rdparty/pixman/pixman-arm-neon-asm.h and  
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Avoid privacy-damaging "supercookies" being set for high-level domain name suffixes

Highlight the most important part of a domain name in the user interface

Accurately sort history entries by site

— quoted from [publicsuffix.org](http://publicsuffix.org).

The public suffix list is used inside Qt to avoid such "supercookies" mentioned above being set in the cookie jar supported by Qt (by the `QNetworkCookieJar` class).

See `src/network/access/qnetworkcookiejartlds_p.h` INFO for more information about how the list is used.

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[3rdparty.html]

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DES (des.cpp)

Implementation of DES encryption for NTLM

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FreeType 2 (freetype) version 2.3.6

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-- quoted from `3rdparty/freetype/docs/freetype2.html`.

See `src/3rdparty/freetype/docs/FTL.txt` and `src/3rdparty/freetype/docs/GPL.txt` for license details.

See also the files in `src/3rdparty/harfbuzz`, which are used by FreeType.

Parts of the FreeType projects have been modified and put into Qt for use in the painting subsystem. These files are `ftraster.h`, `ftraster.c`, `ftgrays.h` and `ftgrays.c`. The following modifications has been made to these files:

Renamed `FT_` and `ft_` symbols to `QT_FT_` and `qt_ft_` to avoid name conflicts.

Removed parts of code not relevant when compiled with `_STANDALONE_` defined.

Changed behavior in `ftraster.c` to follow X polygon filling rules.

Implemented support in `ftraster.c` for winding / odd even polygon fill rules.

Replaced bitmap generation with span generation in `ftraster.c`

Renamed: `ftraster.h` to `qblackraster_p.h`

Renamed: `ftraster.c` to `qblackraster.c`

Renamed: `ftgrays.h` to `qgrayraster_p.h`

Renamed: `ftgrays.c` to `qgrayraster.c`

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MD4 (md4.cpp and md4.h)

MD4 (RFC-1320) message digest.

Modified from MD5 code by Andrey Panin <pazke@donpac.ru>

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MD5 (`md5.cpp` and `md5.h`)

This code implements the MD5 message-digest algorithm. The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed. This code is in the public domain; do with it what you wish. -- quoted from `src/3rdparty/md5/md5.h`

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MNG Library (`libmng`) version 1.0.10

The `libmng` library supports decoding, displaying, encoding, and various other manipulations of the Multiple-image Network Graphics (MNG) format image files. It uses the `zlib` compression library, and optionally the JPEG library by the Independent JPEG Group (IJG) and/or `lcms` (little cms), a color-management library by Marti Maria Saguer. -- quoted from `src/3rdparty/libmng/doc/libmng.txt`

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PNG Reference Library (`libpng`) version 1.5.1

`Libpng` was written as a companion to the PNG specification, as a way of reducing the amount of time and effort it takes to support the PNG file format in application programs. -- quoted from `src/3rdparty/libpng/libpng-manual.txt`.

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The `ptmalloc` memory allocator (`ptmalloc3`) version 1.8  
`ptmalloc3` is a scalable concurrent memory allocator suitable for use in multi-threaded programs.



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SHA-1 (`sha1.cpp`)

Based on the public domain implementation of the SHA-1 algorithm

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See `src/3rdparty/sha1/sha1.cpp` for more information about the terms and conditions under which the code is supplied.

SQLite (`sqlite`) version 3.7.7.1

SQLite is a small C library that implements a self-contained, embeddable, zero-configuration SQL database engine. — quoted from [www.sqlite.org](http://www.sqlite.org).

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TIFF Software Distribution (`libtiff`) version 3.9.2

`libtiff` is a set of C functions (a library) that support the manipulation of TIFF image files. — quoted from `src/libtiff/html/libtiff.html`

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See `src/3rdparty/libtiff/README` for license details.

Wintab API (`wintab`)

Wintab is a de facto API for pointing devices on Windows. The wintab code is from <http://www.pointing.com/WINTAB.HTM>.

See `src/3rdparty/wintab/wintab.h` for license details.

Data Compression Library (`zlib`) version 1.2.5

`zlib` is a general purpose data compression library. All the code is thread safe. The data format used by the `zlib` library is described by RFCs (Request for Comments) 1950 to 1952 -- quoted from `src/3rdparty/zlib/README`.

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Pixman (pixman) version 0.17.11

pixman is a library that provides low-level pixel manipulation features such as image compositing and trapezoid rasterization. -- quoted from  
src/3rdparty/pixman/README

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See `src/3rdparty/pixman/pixman-arm-neon-asm.h` and  
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WebCore (WebKit)

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-- quoted from publicsuffix.org.

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See src/network/access/qnetworkcookiejartlds\_p.h.INFO for more information about how the list is used.

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```
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```

```
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```

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```
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```

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<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

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rtsp-alg      3.7      GPLv2

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of this License.

```
-----
https://github.com/maru-sama/rtsp-linux/blob/3.7/nf_conntrack_rtsp.c
/*
 * RTSP extension for IP connection tracking
 * (C) 2003 by Tom Marshall <tmarshall at real.com>
 * based on ip_conntrack_irc.c
 *
 * This program is free software; you can redistribute it and/or
 * modify it under the terms of the GNU General Public License
 * as published by the Free Software Foundation; either version
 * 2 of the License, or (at your option) any later version.
 *
 * Module load syntax:
 * insmod nf_conntrack_rtsp.o ports=port1,port2,...port<MAX_PORTS>
 * max_outstanding=n setup_timeout=secs
 *
 * If no ports are specified, the default will be port 554.
 *
 * With max_outstanding you can define the maximum number of not yet
 * answered SETUP requests per RTSP session (default 8).
 * With setup_timeout you can specify how long the system waits for
 * an expected data channel (default 300 seconds).
 *
 * 2005-02-13: Harald Welte <laforge at netfilter.org>
 * - port to 2.6
 * - update to recent post-2.6.11 api changes
 * 2006-09-14: Steven Van Acker <deepstar at singularity.be>
 * - removed calls to NAT code from conntrack helper: NAT no longer needed to use
   rtsp-conntrack
 * 2007-04-18: Michael Guntzsch <mike at it-loops.com>
 * - Port to new NF API
 */
https://github.com/maru-sama/rtsp-linux/blob/3.7/nf_conntrack_rtsp.h
/*
 * RTSP extension for IP connection tracking.
 * (C) 2003 by Tom Marshall <tmarshall at real.com>
```

```
* based on ip_conntrack_irc.h
*
* This program is free software; you can redistribute it and/or
* modify it under the terms of the GNU General Public License
* as published by the Free Software Foundation; either version
* 2 of the License, or (at your option) any later version.
*/
https://github.com/maru-sama/rtsp-linux/blob/3.7/nf_nat_rtsp.c
/*
* RTSP extension for TCP NAT alteration
* (C) 2003 by Tom Marshall <tmarshall at real.com>
* based on ip_nat_irc.c
*
* This program is free software; you can redistribute it and/or
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* 2 of the License, or (at your option) any later version.
*
* Module load syntax:
* insmod nf_nat_rtsp.o ports=port1,port2,...port<MAX_PORTS>
* stunaddr=<address>
* destaction=[auto|strip|none]
*
* If no ports are specified, the default will be port 554 only.
*
* stunaddr specifies the address used to detect that a client is using STUN.
* If this address is seen in the destination parameter, it is assumed that
* the client has already punched a UDP hole in the firewall, so we don't
* mangle the client_port. If none is specified, it is autodetected. It
* only needs to be set if you have multiple levels of NAT. It should be
* set to the external address that the STUN clients detect. Note that in
* this case, it will not be possible for clients to use UDP with servers
* between the NATs.
*
* If no destaction is specified, auto is used.
* destaction=auto: strip destination parameter if it is not stunaddr.
* destaction=strip: always strip destination parameter (not recommended).
* destaction=none: do not touch destination parameter (not recommended).
*/
```



---

shadow 4.2.1 BSD | Artistic-1.0

---

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\*)

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The End

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shadow-securetty      4.2.1      MIT

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sysklogd      1.5      GPL-2.0

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The of the start-stop-daemon

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).

\*

\* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,

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sysvinit-inittab          2.88dsf GPLv2

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The of the start-stop-daemon

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <[marekm@i17linuxb.ists.pwr.wroc.pl](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
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tcpdump 4.1.1    BSD

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tslib 1.1 LGPLv2

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---

udev 182 GPLv2.0+ & LGPLv2.1+

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```

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```
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Version 2.1, February 1999

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```

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
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<signature of Ty Coon>, 1 April 1990

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wireless-tools 30.pre9 GPLv2

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