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1.4 libpipeline 1.3.0 1

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1.7 sbsigntool 0.6 Ubuntu7.2

1.7.1 Available under license :

sbsigntool - utilities for signing UEFI binaries for use with secure boot.

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1.8 initramfs-tools 0.103ubuntu4.11

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The current Debian maintainer are maximilian attems <maks@debian.org>

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The current ubuntu release can be found at:

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1.14 iptraf-ng 0.0.0

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1.15 libasyncns 0.8 4ubuntu2

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!

1.16 cpp 4.8.4-2ubuntu1~14.04.4

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Version 3, 29 June 2007

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1.17 patch 2.7.1-4ubuntu2.4

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This is Debian's prepackaged version of patch, Larry Wall's program that allows you to apply diffs to a file automatically.

The current maintainer for this package is Laszlo Boszormenyi (GCS) [<gcs@debian.org>](mailto:gcs@debian.org).

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The upstream source is available at 'ftp://ftp.gnu.org/gnu/patch/', resp. 'ftp://alpha.gnu.org/gnu/diffutils/'.

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1.18 sed 4.2.2-4ubuntu1

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1.24 ppp 2.4.5-5.1ubuntu2.3

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1.25 ceph 0.80.11 Ubuntu14.04.4

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1.27 ubuntu-advantage-tools

10ubuntu0.14.04.2

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Source: <https://github.com/CanonicalLtd/ubuntu-advantage-script>

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1.28 insserv 1.14.0 5ubuntu2

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1.29 zlib 1.2.5

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

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

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1.30 libsgutils 1.36-1ubuntu1

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10th April 2012

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*/

1.31 openssh 6.6p1-2ubuntu2.13

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

```
#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
```

```
#ifndef _COMPAT_POLL_H_
```

```
#define _COMPAT_POLL_H_
```

```
typedef struct pollfd {
```

```
int fd;
```

```
short events;
```

```
short revents;
```

```
} pollfd_t;
```

```
typedef unsigned int nfd_t;
```

```
#define POLLIN 0x0001
```

```
#define POLLOUT 0x0004
```

```
#define POLLERR 0x0008
```

```
#define POLLHUP 0x0010
```

```
#define POLLNVAL 0x0020
```

```
#if 0
```

```
/* the following are currently not implemented */
```

```
#define POLLPRI 0x0002
```

```
#define POLLRDNORM 0x0040
```

```
#define POLLNORM POLLRDNORM
```

```
#define POLLWRNORM POLLOUT
```

```
#define POLLRDBAND 0x0080
```

```
#define POLLWRBAND 0x0100
```

```
#endif
```



```
#define INFTIM (-1) /* not standard */
```

```
int poll(struct pollfd *, nfd_t, int);
```

```
#endif /* !_COMPAT_POLL_H_ */
```

```
#endif /* !HAVE_POLL_H */
```

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- The make-ssh-known-hosts script is no longer included

- TSS has been removed

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```
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*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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*/
```

```
#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
/*
```

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```

```
*
```

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```

```
*
```

```
*/
```

```
#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
```

```
#ifndef HAVE_WAITPID
```

```
/* Clean out any potential issues */
```

```
#undef WIFEXITED
```

```
#undef WIFSTOPPED
```

```
#undef WIFSIGNALED
```

```
/* Define required functions to mimic a POSIX look and feel */
```

```
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
```

```
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
```



```

#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

```

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## 1.35 dhcp 4.2.4

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\* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io\_test.cpp: These files were derived from the file\_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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## 1.36 tftp-hpa 5.2-7ubuntu3.1

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```

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```
* /opt/ws_local/PERMITS_SQL/1068483865_1594390978.04/0/tftp-hpa-5-2-orig-1-tar-gz/tftp-hpa-5.2/tftpd/misc.c
* /opt/ws_local/PERMITS_SQL/1068483865_1594390978.04/0/tftp-hpa-5-2-orig-1-tar-gz/tftp-hpa-
```



5.2/tftpd/remap.h

\* /opt/ws\_local/PERMITS\_SQL/1068483865\_1594390978.04/0/tftp-hpa-5-2-orig-1-tar-gz/tftp-hpa-

5.2/tftpd/remap.c

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\* /opt/ws\_local/PERMITS\_SQL/1068483865\_1594390978.04/0/tftp-hpa-5-2-orig-1-tar-gz/tftp-hpa-

5.2/common/tftpsubs.c

\* /opt/ws\_local/PERMITS\_SQL/1068483865\_1594390978.04/0/tftp-hpa-5-2-orig-1-tar-gz/tftp-hpa-5.2/tftp/main.c

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\* /opt/ws\_local/PERMITS\_SQL/1068483865\_1594390978.04/0/tftp-hpa-5-2-orig-1-tar-gz/tftp-hpa-

5.2/common/tftpsubs.h

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* /opt/ws_local/PERMITS_SQL/1068483865_1594390978.04/0/tftp-hpa-5-2-orig-1-tar-gz/tftp-hpa-
5.2/tftpd/recvfrom.c
* /opt/ws_local/PERMITS_SQL/1068483865_1594390978.04/0/tftp-hpa-5-2-orig-1-tar-gz/tftp-hpa-
5.2/tftpd/recvfrom.h

```

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```

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```

* /opt/ws_local/PERMITS_SQL/1068483865_1594390978.04/0/tftp-hpa-5-2-orig-1-tar-gz/tftp-hpa-

```



5.2/tftpd/tftpd.8.in

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Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: 5.2

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

BuildRequires: tcp\_wrappers-devel

BuildRoot: %{\_tmppath}/%{name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons

Summary: The server for the Trivial File Transfer Protocol (TFTP).

Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep

%setup -q -n tftp-hpa-%{version}

%build



```

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
 SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [$1 = 0]; then
 /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>

```



- rebuilt
  
- \* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)
  
- \* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt
  
- \* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp\_wrappers
  
- \* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt
  
- \* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32
  
- \* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30
  
- \* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476
  
- \* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild
  
- \* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29
  
- \* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild
  
- \* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild
  
- \* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)
  
- \* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.
  
- \* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17



- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one
- \* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x
- \* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16
- \* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs
- \* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added "-l" flag to hpa-tftpd for file-logging (#26467)
  - added description for "-l" to the man-page
- \* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),
  - drop dependency on xinetd for tftp client (#25051),
- \* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).
- \* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
  - %%post is needed by server, not client. Add %%postun for erasure as well.
- \* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
  - default to being disabled
- \* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
  - correct group.
- \* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
  - change user from root to nobody
- \* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server\_args (#14003).
  - remove -D\_BSD\_SOURCE (#14003).
- \* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd



- \* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild
  
- \* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.
  
- \* Fri May 5 2000 Matt Wilson <msw@redhat.com>
  - use \_BSD\_SOURCE for hpa's tftpd so we get BSD signal semantics.
  
- \* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description
  
- \* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).
  
- \* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary
  
- \* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server
  
- \* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.
  
- \* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.
  
- \* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)
  
- \* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)
  
- \* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.
  
- \* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
  - build root
  
- \* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr
  
- \* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure



\* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>

- initial build

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483865\_1594390978.04/0/tftp-hpa-5-2-orig-1-tar-gz/tftp-hpa-5.2/tftp.spec

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```
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.\"
.\"----- */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483865\_1594390978.04/0/tftp-hpa-5-2-orig-1-tar-gz/tftp-hpa-5.2/tftp/tftp.1.in

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```
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*
* Copyright 2001 H. Peter Anvin - All Rights Reserved
*
```



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- \*
- \* ----- \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483865\_1594390978.04/0/tftp-hpa-5-2-orig-1-tar-gz/tftp-hpa-5.2/tftpd/tftpd.h

# 1.37 libieee 0.2.11 12

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## 1.38 libmtp 1.1.17

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Source: <http://www.openbsd.org/cgi-bin/cvsweb/src/usr.bin/nc/>

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```
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## 1.41 libvpx 1.3.0-2

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.48 libhx 3.15-2ubuntu1



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Jutta Degener

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## 1.51 java-xml 1.3

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## 1.55 libusb 1.0.17-1ubuntu2

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## 1.56 libmnl 1.0.3 3ubuntu1

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## 1.58 netcf 0.2.3-4ubuntu1

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Source: <http://git.fedorahosted.org/git/?p=netcf.git>

Files: tests/cutest.\*

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## 1.59 libmspack 0.9.1alpha



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## 1.61 blas 1.2.20110419-7

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It was downloaded from <http://linux.dell.com/biosdevname/>

Upstream Author: Matt Domsch <Matt\_Domsch@dell.com>

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Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which



pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and



want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a



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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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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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When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be



linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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.

@item

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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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the



library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

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.

@item

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item

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

@end enumerate

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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@enumerate a

@item

Accompany the combined library with a copy of the same work



based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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@page

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Ty Coon, President of Vice

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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Otherwise, if the work is a derivative of the Library, you may



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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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/\*

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common events code for timed events

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printf("%s",png_get_copyright(NULL));
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## 1.73 unzip 6.0-9ubuntu1.5

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#### FIRST NOTE:

This file contains some details about the copyright history of contributions to the UnZip project.

Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.

Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

-----

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):

Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered



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Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding \_in an apparatus that performs LZW encoding\_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP License. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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- \* MoreFiles
- \*
- \* A collection of File Manager and related routines
- \*



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- \* with significant code contributions by Nitin Ganatra
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- \*
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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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-----

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

-----



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## 1.74.1 Available under license :

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Source: <git://anonscm.debian.org/collab-maint/mime-support.git>

Files: \*

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

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

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

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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# vim600: encoding=UTF-8

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Upstream-Name: at

Source: [git://anonscm.debian.org/collab-maint/at.git](http://anonscm.debian.org/collab-maint/at.git)

Comment: This package was debianized by its author Thomas Koenig  
<ig25@rz.uni-karlsruhe.de>, taken over and re-packaged first by Martin  
Schulze <joeey@debian.org> and then by Siggy Brentrup <bsb@winnegan.de>,  
and then taken over by Ryan Murray <rmurray@debian.org>.

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In August 2009 the upstream development and Debian packaging were taken over  
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## 1.84 liblockfile 1.09-6ubuntu1

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Assigns GNU Privacy Guard and future changes.  
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Designed and implemented GnuPG.

GNUPG Matthew Skala 1998-08-10  
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GNUPG Natural Resources Canada 1998-08-11



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Assigns past and future changes. (g10/compress.c, g10/encr-data.c,  
g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)

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ANY g10 Code GmbH 2001-06-07

Assignment for future changes in Libgcrypt terminated on 2012-12-04.

Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz 2001-08-31

Assigns past and future changes.

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LIBGCRYPT Simon Josefsson 2002-10-25

Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode,  
CTS/MAC flags, self test improvements)

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LIBGCRYPT Moritz Schulte 2003-04-17

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GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22

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Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15

Assigns past and future changes. (new: src/libgcrypt.pc.in,  
src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,  
mpi/hppa1.1/udiv-qrnnd.S, mpi/hppa1.1/mpih-mul2.S,  
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,  
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,  
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09



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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.  
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang 2006-09-07

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(SEED cipher)

LIBGCRYPT Werner Dittmann 2009-05-20

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(mpi/amd64, tests/mpitests.c)

GNUPG David Shaw

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(cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov 2010-12-09

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(cipher/ecc.c and related files)

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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

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If such an object file uses only numerical parameters, data



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# 1.105 gnutls 2.12.23-12ubuntu2.8

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It was later taken over by Matthias Urlichs <smurf@debian.org> and is now maintained by Andreas Metzler <ametzler@debian.org> Eric Dorland <eric@debian.org>, James Westby <jw+debian@jameswestby.net>

It was downloaded from <ftp://gnutls.hellug.gr/pub/gnutls>

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The GNU Lesser GPL license applies to the main gnutls library, while the gnutls-extra library is under the GPL. The gnutls-extra library contains the code for "GnuTLS Inner Application" support and the OpenSSL compatibility layer. The gnutls library is located in the `lib/` directory, while the gnutls-extra library is at `libextra/`.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the



entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.



However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood



that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library



facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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When a program is linked with a library, whether statically or using



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We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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The modified work must itself be a software library.

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You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under



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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a



derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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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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If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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Ty Coon, President of Vice

That's all there is to it!



# 1.113 mysql 5.5.62-0ubuntu0.14.04.1

## 1.113.1 Available under license :

```
'#-----BS_STVARS_040_01-----#'
SELECT COUNT(@ @GLOBAL.license);
COUNT(@ @GLOBAL.license)
1
1 Expected
'#-----BS_STVARS_040_02-----#'
SET @ @GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@ @GLOBAL.license);
COUNT(@ @GLOBAL.license)
1
1 Expected
'#-----BS_STVARS_040_03-----#'
SELECT @ @GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@ @GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@ @GLOBAL.license);
COUNT(@ @GLOBAL.license)
1
1 Expected
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected
'#-----BS_STVARS_040_04-----#'
SELECT @ @license = @ @GLOBAL.license;
@ @license = @ @GLOBAL.license
1
1 Expected
'#-----BS_STVARS_040_05-----#'
SELECT COUNT(@ @license);
COUNT(@ @license)
1
1 Expected
SELECT COUNT(@ @local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
```



```

SELECT COUNT(@ @SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@ @GLOBAL.license);
COUNT(@ @GLOBAL.license)
1
1 Expected
SELECT license = @ @SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'

```

```

mysql-test/t/license_basic.test
#
Variable Name: license
Scope: Global
Access Type: Static
Data Type: string
#
#
Creation Date: 2008-02-07
Author : Sharique Abdullah
#
#
Description:Test Cases of Dynamic System Variable license
that checks the behavior of this variable in the following ways
* Value Check
* Scope Check
#
Reference: http://dev.mysql.com/doc/refman/5.1/en/
server-system-variables.html
#
#####

```

```

--echo '#-----BS_STVARS_040_01-----#'
#####
Displaying default value
#####
SELECT COUNT(@ @GLOBAL.license);
--echo 1 Expected

```

```

--echo '#-----BS_STVARS_040_02-----#'
#####
Check if Value can set
#####

```

```

--error ER_INCORRECT_GLOBAL_LOCAL_VAR

```



```
SET @@GLOBAL.license=1;
--echo Expected error 'Read only variable'
```

```
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected
```

```
--echo '#-----BS_STVARS_040_03-----#'
#####
Check if the value in GLOBAL Table matches value in variable
#####
```

```
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected
```

```
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected
```

```
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected
```

```
--echo '#-----BS_STVARS_040_04-----#'
#####
Check if accessing variable with and without GLOBAL point to same variable
#####
SELECT @@license = @@GLOBAL.license;
--echo 1 Expected
```

```
--echo '#-----BS_STVARS_040_05-----#'
#####
Check if license can be accessed with and without @@ sign
#####
```

```
SELECT COUNT(@@license);
--echo 1 Expected
```

```
--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
```



--echo Expected error 'Variable is a GLOBAL variable'

--Error ER\_INCORRECT\_GLOBAL\_LOCAL\_VAR

SELECT COUNT(@ @SESSION.license);

--echo Expected error 'Variable is a GLOBAL variable'

SELECT COUNT(@ @GLOBAL.license);

--echo 1 Expected

--Error ER\_BAD\_FIELD\_ERROR

SELECT license = @ @SESSION.license;

--echo Expected error 'Readonly variable'

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Version 2, June 1991

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Ty Coon, President of Vice

That's all there is to it!

# 1.127 augeas 1.2.0-Ubuntu1.3

## 1.127.1 Available under license :

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## 1.128 findutils 4.4.2-7

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AC_DEFUN([gl_CANONICALIZE_LGPL],
```

```
[
```

```
 dnl Do this replacement check manually because the file name is shorter
 dnl than the function name.
```

```
 AC_CHECK_DECLS_ONCE(canonicalize_file_name)
```

```
 AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
```

```
 if test $ac_cv_func_canonicalize_file_name = no; then
```

```
 AC_LIBOBJ(canonicalize-lgpl)
```

```
 AC_DEFINE([realpath], [rpl_realpath],
```



```

 [Define to a replacement function name for realpath().)]
 gl_PREREQ_CANONICALIZE_LGPL
fi
))

Like gl_CANONICALIZE_LGPL, except prepare for separate compilation
(no AC_LIBOBJ).
AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATE],
[
 AC_CHECK_DECLS_ONCE(canonicalize_file_name)
 AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
 gl_PREREQ_CANONICALIZE_LGPL
])

Prerequisites of lib/canonicalize-lgpl.c.
AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],
[
 AC_CHECK_HEADERS_ONCE(sys/param.h unistd.h)
 AC_CHECK_FUNCS_ONCE(getcwd readlink)
])

```

## 1.129 dosfs-tools 3.0.26-1ubuntu0.1

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Version 3, 29 June 2007

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2000-05-05

# 1.132 gdisk 0.8.8-1ubuntu0.1

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\*/

Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

<http://sourceforge.net/projects/e2fsprogs>

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>.



from sources obtained from a mirror of:  
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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```

This is a Makefile stub which handles the creation of BSD shared
libraries.

In order to use this stub, the following makefile variables must be defined.

BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

```
all:: image
```

```
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))
```



```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip: install-shlibs

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
```

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The most recent officially distributed version can be found at <http://e2fsprogs.sourceforge.net>. If you need to make a distribution, that's the one you should use. If there is some reason why you'd like a more recent version that is still in ALPHA testing (i.e., either using the "WIP" test distributions or one from the hg or git repository from the development branch, please contact me (tytso@mit.edu) before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o  
23-June-2007

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
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# 1.138 groff 1.22.2-5

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. The file ``src/libs/snprintf/snprintf.c'`, written by Mark Martinec  
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The complete `snprintf` package together with documentation is available



from

<http://www.ijs.si/software/snprintf/> .

- . The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at  
<http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z> .

```
src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp
```

- . The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

```
src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c
```



```
src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c
```

## Macro Packages

-----

. The -mdoc macro set, using the BSD license.

```
tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man
```

. The -me macro set, using the BSD license.

```
tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meref.me
```

## Hyphenation Patterns

-----

. The file ``tmac/hyphen.us'` is identical to the file ``hyphen.tex'`, part of the TeX system written by Donald E. Knuth; the master file can be found at

`ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex` .

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. The file ``tmac/hyphen.fr'` contains the same patterns as the file ``frhyph.tex'` (for TeX), which can be found at

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. The files ``tmac/hyphen.det'` and ``tmac/hyphen.den'` contain the same patterns as the files ``dehyphn.tex'` and ``dehypht.tex'` (for TeX), which can be found at

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

AUTHOR

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Version 3, 29 June 2007

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## Constant-time SSSE3 AES core implementation.

## version 0.1

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## By Mike Hamburg (Stanford University), 2009

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--- end of FTL.TXT ---

## 1.145 grub 2.02~beta2-9ubuntu1.16

### 1.145.1 Available under license :

Name: GNU GRUB

Source: <http://www.gnu.org/software/grub/>

Files: \*

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Files: debian/grub-extras/\*

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From 2252bec27ecd3d0353d1868af5a5f325450cc1d2 Mon Sep 17 00:00:00 2001

From: dann frazier <dann.frazier@canonical.com>

Date: Thu, 21 May 2015 10:28:48 -0600

Subject: arm64/setjmp: Add missing license macro

Including the setjmp module in an arm64-efi image will cause it to immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a GPLv3+ license using the GRUB\_MOD\_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>

Bug-Ubuntu: <https://bugs.launchpad.net/bugs/1459871>

Origin: upstream,

<http://git.savannah.gnu.org/cgit/grub.git/commit/?id=3ac342205dc81293bb8e2d91b8c5ebe124b4ad35>

Patch-Name: arm64-setjmp-Add-missing-license-macro.patch

---

grub-core/lib/arm64/setjmp.S | 2 ++

1 file changed, 2 insertions(+)

diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S

index adaafe4..eabfd99 100644

--- a/grub-core/lib/arm64/setjmp.S



```

+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
 */

#include <grub/symbol.h>
#include <grub/dl.h>

.file "setjmp.S"
+GRUB_MOD_LICENSE "GPLv3+"
.text

/*

```

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#+TITLE: List of code with permissive licenses as used by GnuPG.

#+STARTUP: showall

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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# 1.148 pciutils 3.2.1-1ubuntu5.1

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

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Source: <https://github.com/apache/commons-dbcP>

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Author:

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Included for the use of the fix\_strcasecmp.c module which works around a Solaris problem.

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## 1.154 rsyslog 7.4.4-1ubuntu2.7

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<a href="http://www.rsyslog.com/">rsyslog</a> become a reality.</b>

Unfortunately, I have begun this page in July of 2007, long after the project started. I try to extract all past contributor information from CVS, readme's, code etc - but I may fail. If you contributed and do not find yourself listed below, please accept my sincere apologies and drop me a line.</p>

<p>Please also note that I will do the checks for past contributors once the current very busy development phase is over, so it may take a few weeks to fully populate this file.</p>

<p>Contributors are listed in alphabetical order. If I know an Alias only, that alias is used as heading. Else the real name is used. If I know first and last name, they are listed in that order (&quot;Rainer Gerhards&quot; and not &quot;Gerhards, Rainer&quot;). I tend to be sparse with information on contributors, at least without their permission. If you contribute, let me know if I may include your email and/or web page address.</p>

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<p><a href="http://www.gerhards.net/rainer">Rainer Gerhards</a><br>

Project Initiator and Maintainer</p>

<h2>Bartosz Kuzma</h2>

<ul>

<li>provided many contributions before I started this list, so there are probably some missing</li>

<li>suggested the use of autotools in parallel to Peter Vrabec and helped me



get it going</li>  
<li>sent a number of patches (see cvs log for details)</li>  
</ul>  
<h2>Michel Samia</h2>  
<ul>  
<li>provided patch with regex functionality for filters on 2007-07-14, first  
seen in 1.16.1</li>  
</ul>  
<h2>mildew@gmail.com</h2>  
<ul>  
<li>provided a large patch to enhance \$AllowedSender directive for IPv6 as  
well as DNS names</li>  
</ul>  
<h2>Peter Vrabec</h2>  
<ul>  
<li>provided many contributions before I started this list, so there are  
probably some missing</li>  
<li>provided basic IPv6 support</li>  
<li>convinced me to use autotools and provided the first working config for  
it</li>  
<li>provided Rainer with ongoing support, inspiration and motivation</li>  
</ul>  
<h2>varmojfekoj@gmail.com</h2>  
<ul>  
<li>provided contributions before I started this list, so there are probably  
some missing</li>  
<li>provided patches for several memory leaks</li>  
</ul>  
<p><font size="2">Last Updated: 2007-07-19</font></p>  
</body>  
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/\* OPENBSD ORIGINAL: sys/sys/poll.h \*/

```
#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_
```

```
typedef struct pollfd {
 int fd;
 short events;
 short revents;
} pollfd_t;
```

```
typedef unsigned int nfds_t;
```

```
#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif
```

```
#define INFTIM (-1) /* not standard */
```

```
int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
```

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- \*

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- \*

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- \* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>



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\*/

```

#ifdef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif

```



```

#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

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 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */

```



```
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
```

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Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used for encryption, but will generate good random numbers.

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This code has been tested against that, and is equivalent,  
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To compute the message digest of a chunk of bytes, declare an  
MD5Context structure, pass it to MD5Init, call MD5Update as  
needed on buffers full of bytes, and then call MD5Final, which  
will fill a supplied 16-byte array with the digest.

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## 1.160 kerberos 1.18.2

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
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lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
```



lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c



lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprof\_hdr.h  
kadmin/server/iprof\_svc.c  
lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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This package was debianized by Mario Lang <mlang@delysid.org> on  
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It was downloaded from <URL:http://brltty.com/download.html>

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## 1.165 lua 5.1.4

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## 1.168 jsp 2.2.FR

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.  
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has  
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It is currently developed by a community of developers, as well as supported  
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\* /opt/ws\_local/PERMITS\_SQL/1004142498\_1594637797.31/0/gatling-test-framework-3-2-1-sources-jar/io/gatling/sbt/GatlingFramework.scala



```
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jar/io/gatling/sbt/GatlingFingerprint.scala
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# 1.173 net-tools 1.60-25ubuntu2.1

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```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>
```

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```
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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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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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## 1.174 vixie-cron 3.0pl1-127

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.\"
.\" @(#)bitstring.3 5.1 (Berkeley) 12/13/89
.\"
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1046409808\_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.3

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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.8
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.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"

```

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```

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```

* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-
3.0pl1.orig/do_command.c
* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c
* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
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```



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*
* @(#)bitstring.h 5.2 (Berkeley) 4/4/90
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.h
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.\/* */
.\/*
.\/* $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\/*
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.5
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```
* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-
3.0pl1.orig/pathnames.h
* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h
* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.h
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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/Makefile
* /opt/ws_local/PERMITS_SQL/1046409808_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/README
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* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/
```

\$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp \$

Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the 'crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"



if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows \_PATH\_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:  
make all

su and say:  
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up



/etc/cron. Comment it out and add a line to start the new cron daemon  
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron  
(or whatever); no '&' is needed since the daemon forks itself and the  
process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX,  
you will need the public-domain "libndir", found in the B News source and in  
any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1046409808\_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/INSTALL  
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\*/

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\* /opt/ws\_local/PERMITS\_SQL/1046409808\_1590072105.43/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/popen.c

# 1.175 libdevmapper 2.03.02-2ubuntu6

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Upstream-Contact: Niels Miller <nisse@lysator.liu.se>

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A list of the supported algorithms, their origins and licenses (from the manual):

.

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.

### ARCFOUR

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### CAMELLIA

The C implementation is by Nippon Telegraph and Telephone Corporation (NTT), heavily modified by Niels Miller. Assembler for x86 and x86\_64 by Niels Miller. Released under the LGPL.

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### CAST128

The implementation of the CAST128 cipher is written by Steve Reid.



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#### DES

The implementation of the DES cipher is written by Dana L. How, and released under the LGPL.

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#### MD2

The implementation of MD2 is written by Andrew Kuchling, and hacked some by Andreas Sigfridsson and Niels Miller. Python Cryptography Toolkit license (essentially public domain).

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#### MD4

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#### MD5

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#### SHA1

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#### SHA224, SHA256, SHA384, and SHA512

Written by Niels Miller, using Peter Gutmann's SHA1 code as a model. Released under the LGPL.

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#### TWOFISH

The implementation of the TWOFISH cipher is written by Ruud de Rooij. Released under the LGPL.

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#### RSA

Written by Niels Miller, released under the LGPL. Uses the GMP library for bignum operations.

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* `admin/check-style.sh`, `admin/check-style-common.awk`, `admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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```
=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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-->
```

```
<!-- Id -->
```

```
<!-- Generate ISC copyright comments from Docbook copyright metadata. -->
```

```
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
 <xsl:param name="text"/>
 <xsl:value-of select="$isc.copyright.leader"/>
 <xsl:value-of select="normalize-space(substring-before($text, '#10;'))"/>
 <xsl:text>#10;</xsl:text>
 <xsl:variable name="rest" select="substring-after($text, '#10;')"/>
 <xsl:if test="translate($rest, '#9;#32;', ' ')">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text" select="$rest"/>
 </xsl:call-template>
 </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
 <xsl:text>
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 </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text">
 <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
 <xsl:text>Copyright (C) </xsl:text>
 <xsl:call-template name="copyright.years">
```



```

 <xsl:with-param name="years" select="year"/>
 </xsl:call-template>
<xsl:text> </xsl:text>
 <xsl:value-of select="holder"/>
 <xsl:value-of select="$isc.copyright.breakline"/>
 <xsl:text>
</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
 </xsl:with-param>
</xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
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```

From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

```
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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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From strings/apr\_snprintf.c:

\*  
\* cvt - IEEE floating point formatting routines.  
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## 1.179 openhpi 2.14.1-1.3ubuntu2

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## 1.180 bcel 2.7.1

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# 1.183 gc 8.0.4

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 */
```

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This is a string packages that uses a tree-based representation. See cord.h for a description of the functions provided. Ec.h describes "extensible cords", which are essentially output streams that write to a cord. These allow for efficient construction of cords without requiring a bound on the size of a cord.

More details on the data structure can be found in

Boehm, Atkinson, and Plass, "Ropes: An Alternative to Strings", Software Practice and Experience 25, 12, December 1995, pp. 1315-1330.

A fundamentally similar "rope" data structure is also part of SGI's standard template library implementation, and its descendants, which include the GNU C++ library. That uses reference counting by default. There is a short description of that data structure at <http://www.sgi.com/tech/stl/ropeimpl.html> .

All of these are descendants of the "ropes" in Xerox Cedar.

cord/tests/de.c is a very dumb text editor that illustrates the use of cords. It maintains a list of file versions. Each version is simply a cord representing the file contents. Nonetheless, standard editing operations are efficient, even on very large files. (Its 3 line "user manual" can be obtained by invoking it without arguments. Note that ^R^N and ^R^P move the cursor by almost a screen. It does not understand tabs, which will show up as highlighted "I"s. Use the UNIX "expand" program first.) To build the editor, type "make cord/de" in the gc directory.

Note that CORD\_printf and friends use C functions with variable numbers of arguments in non-standard-conforming ways. This code is known to break on some platforms, notably PowerPC. It should be possible to build the remainder of the library (everything but cordprnt.c) on



any platform that supports the collector.

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```

```
Process this file with automake to produce Makefile.in.
```

```
installed documentation
if ENABLE_DOCS
dist_doc_DATA = \
 AUTHORS \
 README.md \
 doc/README.DGUX386 \
 doc/README.Mac \
 doc/README.OS2 \
 doc/README.amiga \
 doc/README.arm.cross \
 doc/README.autoconf \
 doc/README.cmake \
 doc/README.cords \
 doc/README.darwin \
 doc/README.environment \
 doc/README.ews4800 \
 doc/README.hp \
 doc/README.linux \
 doc/README.macros \
 doc/README.rs6000 \
 doc/README.sgi \
 doc/README.solaris2 \
 doc/README.symbian \
 doc/README.uts \
 doc/README.win32 \
 doc/README.win64 \
 doc/debugging.md \
 doc/finalization.md \
 doc/gcdescr.md \
 doc/gcinterface.md \
 doc/leak.md \
 doc/overview.md \
 doc/porting.md \
 doc/scale.md \
 doc/simple_example.md \
 doc/tree.md
```

```
dist_man3_MANS = doc/gc.man
endif
```



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\* /opt/ws\_local/PERMITS\_SQL/1068673867\_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-COz3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/cord/tests/de\_win.h  
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\* /opt/ws\_local/PERMITS\_SQL/1068673867\_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-COz3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/dyn\_load.c  
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# GC\_SET\_VERSION

# sets and AC\_DEFINEs GC\_VERSION\_MAJOR, GC\_VERSION\_MINOR and GC\_VERSION\_MICRO  
# based on the contents of PACKAGE\_VERSION; PACKAGE\_VERSION must conform to

# [0-9]+.[0-9]+.[0-9]+

#

AC\_DEFUN([GC\_SET\_VERSION], [

AC\_MSG\_CHECKING(GC version numbers)

GC\_VERSION\_MAJOR=`echo \$PACKAGE\_VERSION | sed 's/^\([0-9]\)[0-9]\*\.[.].\*\$\1/g`

GC\_VERSION\_MINOR=`echo \$PACKAGE\_VERSION | sed 's/^\([^\.]\*\)[.]\([0-9]\)[0-9]\*\.[.].\*\$\2/g`

GC\_VERSION\_MICRO=`echo \$PACKAGE\_VERSION | sed 's/^\([^\.]\*\)[.]\([^\.]\*\)[.]\([0-9]\)[0-9]\*\.[.].\*\$\3/g`

if test :\$GC\_VERSION\_MAJOR: = :: \

-o :\$GC\_VERSION\_MINOR: = :: \

-o :\$GC\_VERSION\_MICRO: = :: ;

then

AC\_MSG\_RESULT(invalid)

AC\_MSG\_ERROR([nonconforming PACKAGE\_VERSION='\$PACKAGE\_VERSION'])

fi

AC\_DEFINE\_UNQUOTED([GC\_VERSION\_MAJOR], \$GC\_VERSION\_MAJOR,  
[The major version number of this GC release.])

AC\_DEFINE\_UNQUOTED([GC\_VERSION\_MINOR], \$GC\_VERSION\_MINOR,  
[The minor version number of this GC release.])

AC\_DEFINE\_UNQUOTED([GC\_VERSION\_MICRO], \$GC\_VERSION\_MICRO,  
[The micro version number of this GC release.])

AC\_MSG\_RESULT(major=\$GC\_VERSION\_MAJOR minor=\$GC\_VERSION\_MINOR \  
micro=\$GC\_VERSION\_MICRO)

)



sinclude(libtool.m4)

Found in path(s):

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 \* /opt/ws\_local/PERMITS\_SQL/1068673867\_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-COz3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/mark\_rts.c  
 \* /opt/ws\_local/PERMITS\_SQL/1068673867\_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-COz3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/mach\_dep.c  
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```

```
Process this file with automake to produce part of Makefile.in.
```

```
installed headers
```

```
#
```

```
pkginclude_HEADERS += \
 include/gc.h \
 include/gc_backptr.h \
 include/gc_config_macros.h \
 include/gc_gcj.h \
 include/gc_inline.h \
 include/gc_mark.h \
 include/gc_pthread_redirects.h \
 include/gc_tiny_fl.h \
 include/gc_typed.h \
 include/gc_version.h \
 include/javaxfc.h \
 include/leak_detector.h
```

```
headers which are not installed
```

```
#
```

```
dist_noinst_HEADERS += \
 include/cord.h \
 include/cord_pos.h \
 include/ec.h \
 include/gc_alloc_ptrs.h \
 include/new_gc_alloc.h \
 include/private/darwin_semaphore.h \
 include/private/darwin_stop_world.h \
 include/private/dbg_mlc.h \
 include/private/gc_atomic_ops.h \
 include/private/gc_hdrs.h \
 include/private/gc_locks.h \
 include/private/gc_pmark.h \
 include/private/gc_priv.h \
 include/private/gcconfig.h \
 include/private/msvc_dbg.h \
 include/private/pthread_stop_world.h \
 include/private/pthread_support.h \
 include/private/specific.h \
 include/private/thread_local_alloc.h
```



```
unprefixed header
include_HEADERS += \
 include/extra/gc.h
```

Found in path(s):

```
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COz3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/include/include.am
```

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*
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COz3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/tests/disclaim_test.c
```

```
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```

```
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\* /opt/ws\_local/PERMITS\_SQL/1068673867\_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-COz3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/include/gc\_alloc\_ptrs.h  
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 \* /opt/ws\_local/PERMITS\_SQL/1068673867\_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-COz3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/thread\_local\_alloc.c  
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\* /opt/ws\_local/PERMITS\_SQL/1068673867\_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-COz3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/include/private/gc\_atomic\_ops.h

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[Interface Overview](gcinterface.md) | [Tutorial Slides](http://www.hboehm.info/gc/04tutorial.pdf) |

[FAQ](http://www.hboehm.info/gc/faq.html) | [Example](simple\_example.md) |

[Download](https://github.com/ivmai/bdwgc/wiki/Download) | [License](http://www.hboehm.info/gc/license.txt)

---|---|---|---|---|---

# A garbage collector for C and C++

- \* Platforms
- \* Scalable multiprocessor versions
- \* Some collector details
- \* Further reading
- \* Current users
- \* Local Links for this collector
- \* Local Background Links
- \* Contacts and Mailing List

[ This is an updated version of the page formerly at  
`www.hpl.hp.com/personal/Hans\_Boehm/gc/`, before that at  
`http://reality.sgi.com/boehm/gc.html` and before that at  
`ftp://ftp.parc.xerox.com/pub/gc/gc.html`. ]

The

[Boehm](http://www.hboehm.info)-[Demers](http://www.cs.cornell.edu/annual\_report/00-01/bios.htm#demers)-  
[Weiser](http://www.ubiq.com/hypertext/weiser/weiser.html)

conservative Garbage Collector (\*\*BDWGC\*\*) can be used as a garbage collecting replacement for C `malloc` or C++ `new`. It allows you to allocate memory basically as you normally would, without explicitly deallocating memory that is no longer useful. The collector automatically recycles memory when it determines that it can no longer be otherwise accessed. A simple example of such a use is given [here](simple\_example.md).

The collector is also used by a number of programming language implementations that either use C as intermediate code, want to facilitate easier interoperation with C libraries, or just prefer the simple collector interface. For a more detailed description of the interface, see [here](gcinterface.md).



Alternatively, the garbage collector may be used as a [leak detector](leak.md) for C or C++ programs, though that is not its primary goal.

Typically several versions are offered for [downloading](https://github.com/ivmai/bdwgc/wiki/Download): preview, stable, legacy. Usually you should use the one marked as the `_latest stable_` release. Preview versions may contain additional features, platform support, but are likely to be less well tested. The list of changes for each version is specified on the [releases](https://github.com/ivmai/bdwgc/releases) page.

The arguments for and against conservative garbage collection in C and C++ are briefly discussed [here](http://www.hboehm.info/gc/issues.html). The beginnings of a frequently-asked-questions list are [here](http://www.hboehm.info/gc/faq.html).

The garbage collector code is copyrighted by [Hans-J. Boehm](http://www.hboehm.info), Alan J. Demers, [Xerox Corporation](http://www.xerox.com/), [Silicon Graphics](http://www.sgi.com/), and [Hewlett-Packard Company](http://www.hp.com/). It may be used and copied without payment of a fee under minimal restrictions. See the README.md file in the distribution or the [license](http://www.hboehm.info/gc/license.txt) for more details. **\*\*IT IS PROVIDED AS IS, WITH ABSOLUTELY NO WARRANTY EXPRESSED OR IMPLIED. ANY USE IS AT YOUR OWN RISK\*\*.**

Empirically, this collector works with most unmodified C programs, simply by replacing ``malloc`` with ``GC_malloc`` calls, replacing ``realloc`` with ``GC_realloc`` calls, and removing free calls. Exceptions are discussed [here](http://www.hboehm.info/gc/issues.html).

## ## Platforms

The collector is not completely portable, but the distribution includes ports to most standard PC and UNIX/Linux platforms. The collector should work on Linux, \*BSD, recent Windows versions, MacOS X, HP/UX, Solaris, Tru64, Irix and a few other operating systems. Some ports are more polished than others.

Irix pthreads, Linux threads, Win32 threads, Solaris threads (pthreads only), HP/UX 11 pthreads, Tru64 pthreads, and MacOS X threads are supported in recent versions.

## ### Separately distributed ports

For MacOS 9/Classic use, Patrick Beard's latest port is available from ``http://homepage.mac.com/pcbeard/gc/``. (Unfortunately, that's now quite dated. I'm not in a position to test under MacOS. Although I try to incorporate changes, it is impossible for me to update the project file.)



Precompiled versions of the collector for NetBSD are available  
[here](ftp://ftp.netbsd.org/pub/pkgsrc/current/pkgsrc/devel/boehm-gc/README.html).

[Debian Linux](http://www.debian.org/) includes prepackaged versions of the collector.

## ## Scalable multiprocessor versions

Kenjiro Taura, Toshio Endo, and Akinori Yonezawa have made available a [parallel collector](http://ieeexplore.ieee.org/abstract/document/1592629/) based on this one. Their collector takes advantage of multiple processors during a collection. Starting with GC v6.0alpha1 we also do this, though with more modest processor scalability goals. Our approach is discussed briefly in [this document](scale.md).

## ## Some Collector Details

The collector uses a [mark-sweep](http://www.hboehm.info/gc/complexity.html) algorithm. It provides incremental and generational collection under operating systems which provide the right kind of virtual memory support. (Currently this includes SunOS[45], IRIX, OSF/1, Linux, and Windows, with varying restrictions.) It allows [\_finalization\_](finalization.md) code to be invoked when an object is collected. It can take advantage of type information to locate pointers if such information is provided, but it is usually used without such information. See the README and `gc.h` files in the distribution for more details.

For an overview of the implementation, see [here](gcdescr.md).

The garbage collector distribution includes a C string (`cord.h`) package that provides for fast concatenation and substring operations on long strings. A simple curses- and win32-based editor that represents the entire file as a cord is included as a sample application.

Performance of the non-incremental collector is typically competitive with `malloc`/`free` implementations. Both space and time overhead are likely to be only slightly higher for programs written for `malloc`/`free` (see Detlefs, Dosser and Zorn's

[Memory Allocation Costs in Large C and C++

Programs](http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.30.3073&rep=rep1&type=ps)).

For programs allocating primarily very small objects, the collector may be faster; for programs allocating primarily large objects it will be slower.

If the collector is used in a multi-threaded environment and configured for thread-local allocation, it may in some cases significantly outperform `malloc`/`free` allocation in time.



We also expect that in many cases any additional overhead will be more than compensated for by decreased copying etc. if programs are written and tuned for garbage collection.

# Further Reading:

\*\*The beginnings of a frequently asked questions list for this collector are [here](<http://www.hboehm.info/gc/faq.html>)\*\*.

\*\*The following provide information on garbage collection in general\*\*: Paul Wilson's [garbage collection ftp archive](<ftp://ftp.cs.utexas.edu/pub/garbage>) and [GC survey](<ftp://ftp.cs.utexas.edu/pub/garbage/gcsurvey.ps>).

The Ravenbrook  
[Memory Management Reference](<http://www.memorymanagement.org/>).

David Chase's [GC FAQ](<http://www.iecc.com/gclist/GC-faq.html>).

Richard Jones'  
[Garbage Collection Page](<https://www.cs.kent.ac.uk/people/staff/rej/gc.html>)  
and his [book](<http://www.cs.kent.ac.uk/people/staff/rej/gcbook/gcbook.html>).

\*\*The following papers describe the collector algorithms we use and the underlying design decisions at a higher level.\*\*

(Some of the lower level details can be found [here]([gcdescr.md](#)).)

The first one is not available electronically due to copyright considerations.  
Most of the others are subject to ACM copyright.

Boehm, H., Dynamic Memory Allocation and Garbage Collection,  
\_Computers in Physics 9\_, 3, May/June 1995, pp. 297-303. This is directed  
at an otherwise sophisticated audience unfamiliar with memory allocation  
issues. The algorithmic details differ from those in the implementation. There  
is a related letter to the editor and a minor correction in the next issue.

Boehm, H., and [M. Weiser](<http://www.ubiq.com/hypertext/weiser/weiser.html>),  
[Garbage Collection in an Uncooperative Environment]([http://www.hboehm.info/spe\\_gc\\_paper/](http://www.hboehm.info/spe_gc_paper/)),  
\_Software Practice & Experience\_, September 1988, pp. 807-820.

Boehm, H., A. Demers, and S. Shenker,  
[Mostly Parallel Garbage Collection](<http://www.hboehm.info/gc/papers/pldi91.ps.Z>),  
Proceedings of the ACM SIGPLAN '91 Conference on Programming Language Design  
and Implementation, \_SIGPLAN Notices 26\_, 6 (June 1991), pp. 157-164.

Boehm, H.,  
[Space Efficient Conservative Garbage Collection](<http://www.hboehm.info/gc/papers/pldi93.ps.Z>),  
Proceedings of the ACM SIGPLAN '93 Conference on Programming Language Design



and Implementation, *\_SIGPLAN Notices 28\_*, 6 (June 1993), pp. 197-206.

Boehm, H., Reducing Garbage Collector Cache Misses,  
*\_Proceedings of the 2000 International Symposium on Memory Management\_*.  
[Official version](<http://portal.acm.org/citation.cfm?doid=362422.362438>).  
[Technical report](<http://www.hpl.hp.com/techreports/2000/HPL-2000-99.html>)  
version. Describes the prefetch strategy incorporated into the collector for  
some platforms. Explains why the sweep phase of a *\_mark-sweep\_* collector  
should not really be a distinct phase.

M. Serrano, H. Boehm, Understanding Memory Allocation of Scheme Programs,  
*\_Proceedings of the Fifth ACM SIGPLAN International Conference on Functional  
Programming\_*, 2000, Montreal, Canada, pp. 245-256.  
[Official version](<http://dl.acm.org/citation.cfm?id=351264>). Earlier  
[Technical Report](<http://www.hpl.hp.com/techreports/2000/HPL-2000-62.html>)  
version. Includes some discussion of the collector debugging facilities for  
identifying causes of memory retention.

Boehm, H., Fast Multiprocessor Memory Allocation and Garbage Collection,  
[HP Labs Technical Report HPL 2000-165](<http://www.hpl.hp.com/techreports/2000/HPL-2000-165.html>).  
Discusses the parallel collection algorithms, and presents some performance  
results.

Boehm, H., Bounding Space Usage of Conservative Garbage Collectors,  
*\_Proceedings of the 2002 ACM SIGPLAN-SIGACT Symposium on Principles  
of Programming Languages\_*, Jan. 2002, pp. 93-100.  
[Official version](<http://portal.acm.org/citation.cfm?doid=503272.503282>).  
[Technical report](<http://www.hpl.hp.com/techreports/2001/HPL-2001-251.html>)  
version. Includes a discussion of a collector facility to much more reliably  
test for the potential of unbounded heap growth.

**\*\*The following papers discuss language and compiler restrictions necessary  
to guaranteed safety of conservative garbage collection.\*\***

We thank John Levine and JCLT for allowing us to make the second paper  
available electronically, and providing PostScript for the final version.

Boehm, H.,  
[Simple Garbage-Collector-Safety](<http://www.hboehm.info/gc/papers/pldi96.ps.gz>),  
*Proceedings of the ACM SIGPLAN '96 Conference on Programming Language Design  
and Implementation*.

Boehm, H., and D. Chase,  
[A Proposal for Garbage-Collector-Safe C Compilation](<http://www.hboehm.info/gc/papers/boecha.ps.gz>),  
*\_Journal of C Language Translation 4\_*, 2 (December 1992), pp. 126-141.

**\*\*Other related information:\*\***



The Detlefs, Dosser and Zorn's

[Memory Allocation Costs in Large C and C++

Programs](<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.30.3073&rep=rep1&type=ps>).

This is a performance comparison of the Boehm-Demers-Weiser collector to ``malloc`/`free``, using programs written for ``malloc`/`free``.

Joel Bartlett's

[mostly copying conservative garbage collector for C++](<ftp://gatekeeper.dec.com/pub/compaq/WRL/research-reports/WRL-TN-12.ps>).

John Ellis and David Detlef's

[Safe Efficient Garbage Collection for C++](<http://dl.acm.org/citation.cfm?id=1267983>) proposal.

Henry Baker's [paper collection](<http://home.pipeline.com/%7Ehbaker1/>).

Slides for Hans Boehm's

[Allocation and GC Myths](<http://www.hboehm.info/gc/myths.ps>) talk.

# Current users:

Known current users of some variant of this collector include:

The runtime system for [GCJ](<https://gcc.gnu.org/onlinedocs/gcc-4.8.5/gcj/>), the static GNU java compiler.

[W3m](<http://w3m.sourceforge.net/>), a text-based web browser.

Some versions of the Xerox DocuPrint printer software.

The [Mozilla](<http://www.mozilla.org/>) project, as leak detector.

The [Mono](<http://www.mono-project.com>) project, an open source implementation of the .NET development framework.

The [DotGNU Portable.NET project](<http://www.gnu.org/projects/dotgnu/>), another open source .NET implementation.

The [Irssi IRC client](<http://irssi.org/>).

[The Berkeley Titanium project](<http://titanium.cs.berkeley.edu/>).

[The NAGWare f90 Fortran 90 compiler]([http://www.nag.co.uk/nagware/NP/NP\\_desc.asp](http://www.nag.co.uk/nagware/NP/NP_desc.asp)).

Elwood Corporation's Eclipse Common Lisp system, C library, and translator.

The [Bigloo Scheme](<http://www-sop.inria.fr/mimosa/fp/Bigloo/>) and

[Camloo ML compilers](<https://github.com/samoht/camloo>) written by Manuel



Serrano and others.

Brent Benson's

[libscheme](<http://www.cs.indiana.edu/scheme-repository/libscheme-vhll/final.html>).

The MzScheme scheme implementation.

The

[University of Washington Cecil Implementation](<http://www.cs.washington.edu/research/projects/cecil/www/cecil-home.html>).

[The Berkeley Sather implementation](<http://www1.icsi.berkeley.edu/~sather/>).

[The Berkeley Harmonia Project](<http://www.cs.berkeley.edu/~harmonia/harmonia/index.html>).

The

[Toba](<http://www.cs.arizona.edu/projects/sumatra/toba/>) Java Virtual Machine to C translator.

The [Gwydion Dylan compiler](<http://www.gwydiondylan.org/>).

The

[GNU Objective C runtime](<http://gcc.gnu.org/onlinedocs/gcc/Objective-C.html>).

[Macaulay 2](<http://www.math.uiuc.edu/Macaulay2>), a system to support research in algebraic geometry and commutative algebra.

The [Vesta](<http://www.vestasys.org/>) configuration management system.

[Visual Prolog 6](<http://www.visual-prolog.com/>).

[Asymptote LaTeX-compatible vector graphics language](<http://asymptote.sf.net/>).

# More information on the BDWGC primary site

[A simple illustration of how to build and use the collector]([simple\\_example.md](#)).

[Description of alternate interfaces to the garbage collector]([gcinterface.md](#)).

[Slides from an ISMM 2004 tutorial about the GC](<http://www.hboehm.info/gc/04tutorial.pdf>).

[A FAQ (frequently asked questions) list](<http://www.hboehm.info/gc/faq.html>).

[How to use the garbage collector as a leak detector]([leak.md](#)).

[Some hints on debugging garbage collected applications]([debugging.md](#)).

[An overview of the implementation of the garbage collector]([gcdescr.md](#)).



[The data structure used for fast pointer lookups](tree.md).

[Scalability of the collector to multiprocessors](scale.md).

[Directory](http://www.hboehm.info/gc/gc\_source/) containing the distribution files of all garbage collector releases. It duplicates

[Download](https://github.com/ivmai/bdwgc/wiki/Download) page on GitHub.

# More background information

[An attempt to establish a bound on space usage of conservative garbage collectors](http://www.hboehm.info/gc/bounds.html).

[Mark-sweep versus copying garbage collectors and their complexity](http://www.hboehm.info/gc/complexity.html).

[Pros and cons of conservative garbage collectors, in comparison to other collectors](http://www.hboehm.info/gc/conservative.html).

[Issues related to garbage collection vs. manual memory management in C/C++](http://www.hboehm.info/gc/issues.html).

[An example of a case in which garbage collection results in a much faster implementation as a result of reduced synchronization](http://www.hboehm.info/gc/example.html).

[Slide set discussing performance of nonmoving garbage collectors](http://www.hboehm.info/gc/nonmoving/).

[Slide set discussing \_Destructors, Finalizers, and Synchronization\_, POPL 2003](http://www.hboehm.info/popl03/web/).

[Paper corresponding to above slide set](http://portal.acm.org/citation.cfm?doid=604131.604153)  
([Technical Report](http://www.hpl.hp.com/techreports/2002/HPL-2002-335.html) version).

[A Java/Scheme/C/C++ garbage collection benchmark](http://www.hboehm.info/gc/gc\_bench/).

[Slides for talk on memory allocation myths](http://www.hboehm.info/gc/myths.ps).

[Slides for OOPSLA 98 garbage collection talk](http://www.hboehm.info/gc/gctalk.ps).

[Related papers](http://www.hboehm.info/gc/papers/).

# Contacts and new release announcements

GitHub and Stack Overflow are the major two places for communication.

Technical questions (how to, how does it work, etc.) should be posted



to [Stack Overflow](https://stackoverflow.com/questions/tagged/boehm-gc) with `_boehm-gc_` tag.

To contribute, please rebase your code to the latest [master](https://github.com/ivmai/bdwgc/tree/master/) and submit a [pull request](https://github.com/ivmai/bdwgc/pulls) to GitHub.

To report a bug, or propose (request) a new feature, create a [GitHub issue](https://github.com/ivmai/bdwgc/issues). Please make sure it has not been reported yet by someone else.

To receive notifications on every release, please subscribe to [Releases RSS feed](https://github.com/ivmai/bdwgc/releases.atom). Notifications on all issues and pull requests are available by [watching](https://github.com/ivmai/bdwgc/watchers) the project.

Mailing lists (`bdwgc-announce@lists.opendylan.org`, `bdwgc@lists.opendylan.org`, and the former `gc-announce@linux.hpl.hp.com` and `gc@linux.hpl.hp.com`) are not used at this moment. Their content is available in [bdwgc-announce](https://github.com/ivmai/bdwgc/files/1037650/bdwgc-announce-mailing-list-archive-2014\_02.tar.gz) and [bdwgc](https://github.com/ivmai/bdwgc/files/1038163/bdwgc-mailing-list-archive-2017\_04.tar.gz) archive files, respectively. The gc list archive may also be read at [Narkive](http://bdwgc.opendylan.narkive.com).

Some prior discussion of the collector has taken place on the gcc java mailing list, whose archives appear [here](http://gcc.gnu.org/ml/java/), and also on [gclist@iecc.com](http://lists.tunes.org/mailman/listinfo/gclist).

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1068673867_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-
COz3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/doc/overview.md
No license file was found, but licenses were detected in source scan.
```

/\*

```
* Copyright 1988, 1989 Hans-J. Boehm, Alan J. Demers
* Copyright (c) 1991-1996 by Xerox Corporation. All rights reserved.
* Copyright (c) 1996-1999 by Silicon Graphics. All rights reserved.
* Copyright (c) 1999-2004 Hewlett-Packard Development Company, L.P.
*
* THIS MATERIAL IS PROVIDED AS IS, WITH ABSOLUTELY NO WARRANTY EXPRESSED
* OR IMPLIED. ANY USE IS AT YOUR OWN RISK.
*
* Permission is hereby granted to use or copy this program
* for any purpose, provided the above notices are retained on all copies.
* Permission to modify the code and to distribute modified code is granted,
```



- \* provided the above notices are retained, and a notice that the code was
- \* modified is included with the above copyright notice.
- \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068673867\_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-COz3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/reclaim.c

No license file was found, but licenses were detected in source scan.

## # Boehm-Demers-Weiser Garbage Collector

This is version 8.0.4 of a conservative garbage collector for C and C++.

## ## Download

You might find a more recent/stable version on the [Download](<https://github.com/ivmai/bdwgc/wiki/Download>) page, or [BDWGC site](<http://www.hboehm.info/gc/>).

Also, the latest bug fixes and new features are available in the [development repository](<https://github.com/ivmai/bdwgc>).

## ## Overview

This is intended to be a general purpose, garbage collecting storage allocator. The algorithms used are described in:

- \* Boehm, H., and M. Weiser, "Garbage Collection in an Uncooperative Environment", Software Practice & Experience, September 1988, pp. 807-820.
- \* Boehm, H., A. Demers, and S. Shenker, "Mostly Parallel Garbage Collection", Proceedings of the ACM SIGPLAN '91 Conference on Programming Language Design and Implementation, SIGPLAN Notices 26, 6 (June 1991), pp. 157-164.
- \* Boehm, H., "Space Efficient Conservative Garbage Collection", Proceedings of the ACM SIGPLAN '91 Conference on Programming Language Design and Implementation, SIGPLAN Notices 28, 6 (June 1993), pp. 197-206.
- \* Boehm H., "Reducing Garbage Collector Cache Misses", Proceedings of the 2000 International Symposium on Memory Management.

Possible interactions between the collector and optimizing compilers are discussed in

- \* Boehm, H., and D. Chase, "A Proposal for GC-safe C Compilation",



The Journal of C Language Translation 4, 2 (December 1992).

and

\* Boehm H., "Simple GC-safe Compilation", Proceedings of the ACM SIGPLAN '96 Conference on Programming Language Design and Implementation.

Unlike the collector described in the second reference, this collector operates either with the mutator stopped during the entire collection (default) or incrementally during allocations. (The latter is supported on fewer machines.) On the most common platforms, it can be built with or without thread support. On a few platforms, it can take advantage of a multiprocessor to speed up garbage collection.

Many of the ideas underlying the collector have previously been explored by others. Notably, some of the run-time systems developed at Xerox PARC in the early 1980s conservatively scanned thread stacks to locate possible pointers (cf. Paul Rovner, "On Adding Garbage Collection and Runtime Types to a Strongly-Typed Statically Checked, Concurrent Language" Xerox PARC CSL 84-7). Doug McIlroy wrote a simpler fully conservative collector that was part of version 8 UNIX (tm), but appears to not have received widespread use.

Rudimentary tools for use of the collector as a [leak detector](doc/leak.md) are included, as is a fairly sophisticated string package "cord" that makes use of the collector. (See doc/README.cords and H.-J. Boehm, R. Atkinson, and M. Plass, "Ropes: An Alternative to Strings", Software Practice and Experience 25, 12 (December 1995), pp. 1315-1330. This is very similar to the "rope" package in Xerox Cedar, or the "rope" package in the SGI STL or the g++ distribution.)

Further collector documentation can be found in the [overview](doc/overview.md).

## ## General Description

This is a garbage collecting storage allocator that is intended to be used as a plug-in replacement for C's malloc.

Since the collector does not require pointers to be tagged, it does not attempt to ensure that all inaccessible storage is reclaimed. However, in our experience, it is typically more successful at reclaiming unused memory than most C programs using explicit deallocation. Unlike manually introduced leaks, the amount of unreclaimed memory typically stays bounded.

In the following, an "object" is defined to be a region of memory allocated



by the routines described below.

Any objects not intended to be collected must be pointed to either from other such accessible objects, or from the registers, stack, data, or statically allocated bss segments. Pointers from the stack or registers may point to anywhere inside an object. The same is true for heap pointers if the collector is compiled with ``ALL_INTERIOR_POINTERS`` defined, or ``GC_all_interior_pointers`` is otherwise set, as is now the default.

Compiling without ``ALL_INTERIOR_POINTERS`` may reduce accidental retention of garbage objects, by requiring pointers from the heap to the beginning of an object. But this no longer appears to be a significant issue for most programs occupying a small fraction of the possible address space.

There are a number of routines which modify the pointer recognition algorithm. ``GC_register_displacement`` allows certain interior pointers to be recognized even if ``ALL_INTERIOR_POINTERS`` is not defined. ``GC_malloc_ignore_off_page`` allows some pointers into the middle of large objects to be disregarded, greatly reducing the probability of accidental retention of large objects. For most purposes it seems best to compile with ``ALL_INTERIOR_POINTERS`` and to use ``GC_malloc_ignore_off_page`` if you get collector warnings from allocations of very large objects. See [\[here\]\(doc/debugging.md\)](#) for details.

`_WARNING_`: pointers inside memory allocated by the standard ``malloc`` are not seen by the garbage collector. Thus objects pointed to only from such a region may be prematurely deallocated. It is thus suggested that the standard ``malloc`` be used only for memory regions, such as I/O buffers, that are guaranteed not to contain pointers to garbage collectible memory. Pointers in C language automatic, static, or register variables, are correctly recognized. (Note that ``GC_malloc_uncollectable`` has semantics similar to standard `malloc`, but allocates objects that are traced by the collector.)

`_WARNING_`: the collector does not always know how to find pointers in data areas that are associated with dynamic libraries. This is easy to remedy IF you know how to find those data areas on your operating system (see ``GC_add_roots``). Code for doing this under SunOS, IRIX 5.X and 6.X, HP/UX, Alpha OSF/1, Linux, and win32 is included and used by default. (See `doc/README.win32` for Win32 details.) On other systems pointers from dynamic library data areas may not be considered by the collector. If you're writing a program that depends on the collector scanning dynamic library data areas, it may be a good idea to include at least one call to ``GC_is_visible`` to ensure that those areas are visible to the collector.



Note that the garbage collector does not need to be informed of shared read-only data. However if the shared library mechanism can introduce discontiguous data areas that may contain pointers, then the collector does need to be informed.

Signal processing for most signals may be deferred during collection, and during uninterruptible parts of the allocation process.

Like standard ANSI C mallocs, by default it is unsafe to invoke malloc (and other GC routines) from a signal handler while another malloc call may be in progress.

The allocator/collector can also be configured for thread-safe operation. (Full signal safety can also be achieved, but only at the cost of two system calls per malloc, which is usually unacceptable.)

`_WARNING_`: the collector does not guarantee to scan thread-local storage (e.g. of the kind accessed with `pthread_getspecific`). The collector does scan thread stacks, though, so generally the best solution is to ensure that any pointers stored in thread-local storage are also stored on the thread's stack for the duration of their lifetime. (This is arguably a longstanding bug, but it hasn't been fixed yet.)

## ## Installation and Portability

As distributed, the collector operates silently

In the event of problems, this can usually be changed by defining the ``GC_PRINT_STATS`` or ``GC_PRINT_VERBOSE_STATS`` environment variables. This will result in a few lines of descriptive output for each collection.

(The given statistics exhibit a few peculiarities.

Things don't appear to add up for a variety of reasons, most notably fragmentation losses. These are probably much more significant for the contrived program "test.c" than for your application.)

On most Unix-like platforms, the collector can be built either using a GNU autoconf-based build infrastructure (type `./configure; make`` in the simplest case), or with a classic makefile by itself (type ``make -f Makefile.direct``).

Please note that the collector source repository does not contain configure and similar auto-generated files, thus the full procedure of autoconf-based build of ``master`` branch of the collector could look like:

```
git clone git://github.com/ivmai/bdwgc.git
cd bdwgc
git clone git://github.com/ivmai/libatomic_ops.git
./autogen.sh
./configure
```



```
make -j
make check
```

Cloning of ``libatomic_ops`` is now optional provided the compiler supports atomic intrinsics.

Below we focus on the collector build using classic makefile.

For the Makefile.direct-based process, typing ``make check`` instead of ``make`` will automatically build the collector and then run ``setjmp_test`` and ``gctest``. ``Setjmp_test`` will give you information about configuring the collector, which is useful primarily if you have a machine that's not already supported. `Gctest` is a somewhat superficial test of collector functionality. Failure is indicated by a core dump or a message to the effect that the collector is broken. `Gctest` takes about a second to two to run on reasonable 2007 vintage desktops. It may use up to about 30MB of memory. (The multi-threaded version will use more. 64-bit versions may use more.) ``make test`` will also, as its last step, attempt to build and test the "cord" string library.)

Makefile.direct will generate a library `gc.a` which you should link against. Typing "make cords" will add the cord library to `gc.a`.

The GNU style build process understands the usual targets. ``make check`` runs a number of tests. ``make install`` installs at least `libgc`, and `libcord`. Try ``.configure --help`` to see the configuration options. It is currently not possible to exercise all combinations of build options this way.

It is suggested that if you need to replace a piece of the collector (e.g. `GC_mark_rts.c`) you simply list your version ahead of `gc.a` on the `ld` command line, rather than replacing the one in `gc.a`. (This will generate numerous warnings under some versions of AIX, but it still works.)

All include files that need to be used by clients will be put in the include subdirectory. (Normally this is just `gc.h`. ``make cords`` adds "cord.h" and "ec.h".)

The collector currently is designed to run essentially unmodified on machines that use a flat 32-bit or 64-bit address space. That includes the vast majority of Workstations and X86 (X >= 3) PCs. (The list here was deleted because it was getting too long and constantly out of date.)

In a few cases (Amiga, OS/2, Win32, MacOS) a separate makefile or equivalent is supplied. Many of these have separate README.system files.

Dynamic libraries are completely supported only under SunOS/Solaris, (and even that support is not functional on the last Sun 3 release),



Linux, FreeBSD, NetBSD, IRIX 5&6, HP/UX, Win32 (not Win32S) and OSF/1 on DEC AXP machines plus perhaps a few others listed near the top of dyn\_load.c. On other machines we recommend that you do one of the following:

- 1) Add dynamic library support (and send us the code).
- 2) Use static versions of the libraries.
- 3) Arrange for dynamic libraries to use the standard malloc.

This is still dangerous if the library stores a pointer to a garbage collected object. But nearly all standard interfaces prohibit this, because they deal correctly with pointers to stack allocated objects. (Strtok is an exception. Don't use it.)

In all cases we assume that pointer alignment is consistent with that enforced by the standard C compilers. If you use a nonstandard compiler you may have to adjust the alignment parameters defined in gc\_priv.h. Note that this may also be an issue with packed records/structs, if those enforce less alignment for pointers.

A port to a machine that is not byte addressed, or does not use 32 bit or 64 bit addresses will require a major effort. A port to plain MSDOS or win16 is hard.

For machines not already mentioned, or for nonstandard compilers, some porting suggestions are provided [\[here\]](#)(doc/porting.md).

## ## The C Interface to the Allocator

The following routines are intended to be directly called by the user. Note that usually only ``GC_malloc`` is necessary. ``GC_clear_roots`` and ``GC_add_roots`` calls may be required if the collector has to trace from nonstandard places (e.g. from dynamic library data areas on a machine on which the collector doesn't already understand them.) On some machines, it may be desirable to set ``GC_stacktop`` to a good approximation of the stack base. (This enhances code portability on HP PA machines, since there is no good way for the collector to compute this value.) Client code may include "gc.h", which defines all of the following, plus many others.

- 1) ``GC_malloc(nbytes)``
  - Allocate an object of size nbytes. Unlike malloc, the object is cleared before being returned to the user. ``GC_malloc`` will invoke the garbage collector when it determines this to be appropriate. `GC_malloc` may return 0 if it is unable to acquire sufficient space from the operating system. This is the most probable consequence of running out of space. Other possible consequences



are that a function call will fail due to lack of stack space, or that the collector will fail in other ways because it cannot maintain its internal data structures, or that a crucial system process will fail and take down the machine. Most of these possibilities are independent of the malloc implementation.

2) ``GC_malloc_atomic(nbytes)``

- Allocate an object of size `nbytes` that is guaranteed not to contain any pointers. The returned object is not guaranteed to be cleared. (Can always be replaced by ``GC_malloc``, but results in faster collection times. The collector will probably run faster if large character arrays, etc. are allocated with ``GC_malloc_atomic`` than if they are statically allocated.)

3) ``GC_realloc(object, new_size)``

- Change the size of object to be ``new_size``. Returns a pointer to the new object, which may, or may not, be the same as the pointer to the old object. The new object is taken to be atomic if and only if the old one was. If the new object is composite and larger than the original object, then the newly added bytes are cleared (we hope). This is very likely to allocate a new object, unless ``MERGE_SIZES`` is defined in `gc_priv.h`. Even then, it is likely to recycle the old object only if the object is grown in small additive increments (which, we claim, is generally bad coding practice.)

4) ``GC_free(object)``

- Explicitly deallocate an object returned by ``GC_malloc`` or ``GC_malloc_atomic``. Not necessary, but can be used to minimize collections if performance is critical. Probably a performance loss for very small objects ( $\leq 8$  bytes).

5) ``GC_expand_hp(bytes)``

- Explicitly increase the heap size. (This is normally done automatically if a garbage collection failed to ``GC_reclaim`` enough memory. Explicit calls to ``GC_expand_hp`` may prevent unnecessarily frequent collections at program startup.)

6) ``GC_malloc_ignore_off_page(bytes)``

- Identical to ``GC_malloc``, but the client promises to keep a pointer to the somewhere within the first 256 bytes of the object while it is live. (This pointer should normally be declared volatile to prevent interference from compiler optimizations.) This is the recommended way to allocate anything that is likely to be larger than 100 Kbytes or so. (``GC_malloc`` may result in failure to reclaim such objects.)

7) ``GC_set_warn_proc(proc)``

- Can be used to redirect warnings from the collector. Such warnings should be rare, and should not be ignored during code development.



8) ``GC_enable_incremental()`

- Enables generational and incremental collection. Useful for large heaps on machines that provide access to page dirty information. Some dirty bit implementations may interfere with debugging (by catching address faults) and place restrictions on heap arguments to system calls (since write faults inside a system call may not be handled well).

9) Several routines to allow for registration of finalization code.

User supplied finalization code may be invoked when an object becomes unreachable. To call ``(*f)(obj, x)`` when obj becomes inaccessible, use ``GC_register_finalizer(obj, f, x, 0, 0);``

For more sophisticated uses, and for finalization ordering issues, see `gc.h`.

The global variable ``GC_free_space_divisor`` may be adjusted up from its default value of 3 to use less space and more collection time, or down for the opposite effect. Setting it to 1 will almost disable collections and cause all allocations to simply grow the heap.

The variable ``GC_non_gc_bytes``, which is normally 0, may be changed to reflect the amount of memory allocated by the above routines that should not be considered as a candidate for collection. Careless use may, of course, result in excessive memory consumption.

Some additional tuning is possible through the parameters defined near the top of `gc_priv.h`.

If only ``GC_malloc`` is intended to be used, it might be appropriate to define:

```
#define malloc(n) GC_malloc(n)
#define calloc(m,n) GC_malloc((m)*(n))
```

For small pieces of VERY allocation intensive code, `gc_inl.h` includes some allocation macros that may be used in place of ``GC_malloc`` and friends.

All externally visible names in the garbage collector start with ``GC_``. To avoid name conflicts, client code should avoid this prefix, except when accessing garbage collector routines or variables.

There are provisions for allocation with explicit type information. This is rarely necessary. Details can be found in `gc_typed.h`.

## The C++ Interface to the Allocator



The Ellis-Hull C++ interface to the collector is included in the collector distribution. If you intend to use this, type ``make c++`` after the initial build of the collector is complete. See `gc_cpp.h` for the definition of the interface. This interface tries to approximate the Ellis-Detlefs C++ garbage collection proposal without compiler changes.

Very often it will also be necessary to use `gc_allocator.h` and the allocator declared there to construct STL data structures. Otherwise subobjects of STL data structures will be allocated using a system allocator, and objects they refer to may be prematurely collected.

## ## Use as Leak Detector

The collector may be used to track down leaks in C programs that are intended to run with `malloc/free` (e.g. code with extreme real-time or portability constraints). To do so define ``FIND_LEAK`` in `Makefile`. This will cause the collector to invoke the ``report_leak`` routine defined near the top of `reclaim.c` whenever an inaccessible object is found that has not been explicitly freed. Such objects will also be automatically reclaimed.

If all objects are allocated with ``GC_DEBUG_MALLOC`` (see next section), then the default version of `report_leak` will report at least the source file and line number at which the leaked object was allocated. This may sometimes be sufficient. (On a few machines, it will also report a cryptic stack trace. If this is not symbolic, it can sometimes be called into a symbolic stack trace by invoking program "foo" with `"tools/callprocs.sh foo"`. It is a short shell script that invokes `adb` to expand program counter values to symbolic addresses. It was largely supplied by Scott Schwartz.)

Note that the debugging facilities described in the next section can sometimes be slightly LESS effective in leak finding mode, since in leak finding mode, ``GC_debug_free`` actually results in reuse of the object. (Otherwise the object is simply marked invalid.) Also note that the test program is not designed to run meaningfully in ``FIND_LEAK`` mode. Use `"make gc.a"` to build the collector.

## ## Debugging Facilities

The routines ``GC_debug_malloc``, ``GC_debug_malloc_atomic``, ``GC_debug_realloc``, and ``GC_debug_free`` provide an alternate interface to the collector, which provides some help with memory overwrite errors, and the like. Objects allocated in this way are annotated with additional information. Some of this information is checked during garbage collections, and detected inconsistencies are reported to `stderr`.



Simple cases of writing past the end of an allocated object should be caught if the object is explicitly deallocated, or if the collector is invoked while the object is live. The first deallocation of an object will clear the debugging info associated with an object, so accidentally repeated calls to ``GC_debug_free`` will report the deallocation of an object without debugging information. Out of memory errors will be reported to `stderr`, in addition to returning ``NULL``.

``GC_debug_malloc`` checking during garbage collection is enabled with the first call to ``GC_debug_malloc``. This will result in some slowdown during collections. If frequent heap checks are desired, this can be achieved by explicitly invoking ``GC_gcollect``, e.g. from the debugger.

``GC_debug_malloc`` allocated objects should not be passed to ``GC_realloc`` or ``GC_free``, and conversely. It is however acceptable to allocate only some objects with ``GC_debug_malloc``, and to use ``GC_malloc`` for other objects, provided the two pools are kept distinct. In this case, there is a very low probability that ``GC_malloc`` allocated objects may be misidentified as having been overwritten. This should happen with probability at most one in  $2^{*32}$ . This probability is zero if ``GC_debug_malloc`` is never called.

``GC_debug_malloc``, ``GC_malloc_atomic``, and ``GC_debug_realloc`` take two additional trailing arguments, a string and an integer. These are not interpreted by the allocator. They are stored in the object (the string is not copied). If an error involving the object is detected, they are printed.

The macros ``GC_MALLOC``, ``GC_MALLOC_ATOMIC``, ``GC_REALLOC``, ``GC_FREE``, and ``GC_REGISTER_FINALIZER`` are also provided. These require the same arguments as the corresponding (nondebugging) routines. If `gc.h` is included with ``GC_DEBUG`` defined, they call the debugging versions of these functions, passing the current file name and line number as the two extra arguments, where appropriate. If `gc.h` is included without ``GC_DEBUG`` defined, then all these macros will instead be defined to their nondebugging equivalents. (``GC_REGISTER_FINALIZER`` is necessary, since pointers to objects with debugging information are really pointers to a displacement of 16 bytes from the object beginning, and some translation is necessary when finalization routines are invoked. For details, about what's stored in the header, see the definition of the type `oh` in `dbg_mlc.c` file.)

### ## Incremental/Generational Collection

The collector normally interrupts client code for the duration of a garbage collection mark phase. This may be unacceptable if interactive response is needed for programs with large heaps. The collector can also run in a "generational" mode, in which it usually attempts to



collect only objects allocated since the last garbage collection. Furthermore, in this mode, garbage collections run mostly incrementally, with a small amount of work performed in response to each of a large number of ``GC_malloc`` requests.

This mode is enabled by a call to ``GC_enable_incremental``.

Incremental and generational collection is effective in reducing pause times only if the collector has some way to tell which objects or pages have been recently modified. The collector uses two sources of information:

1. Information provided by the VM system. This may be provided in one of several forms. Under Solaris 2.X (and potentially under other similar systems) information on dirty pages can be read from the `/proc` file system. Under other systems (currently SunOS4.X) it is possible to write-protect the heap, and catch the resulting faults. On these systems we require that system calls writing to the heap (other than read) be handled specially by client code. See `os_dep.c` for details.
2. Information supplied by the programmer. The object is considered dirty after a call to ``GC_end_stubborn_change`` provided the library has been compiled suitably. It is typically not worth using for short-lived objects. Note that bugs caused by a missing ``GC_end_stubborn_change`` or ``GC_reachable_here`` call are likely to be observed very infrequently and hard to trace.

## ## Bugs

Any memory that does not have a recognizable pointer to it will be reclaimed. Exclusive-or'ing forward and backward links in a list doesn't cut it.

Some C optimizers may lose the last undisguised pointer to a memory object as a consequence of clever optimizations. This has almost never been observed in practice.

This is not a real-time collector. In the standard configuration, percentage of time required for collection should be constant across heap sizes. But collection pauses will increase for larger heaps. They will decrease with the number of processors if parallel marking is enabled.

(On 2007 vintage machines, GC times may be on the order of 5 msec per MB of accessible memory that needs to be scanned and processor. Your mileage may vary.) The incremental/generational collection facility



may help in some cases.

## ## Feedback, Contribution, Questions and Notifications

Please address bug reports and new feature ideas to  
[GitHub issues](https://github.com/ivmai/bdwgc/issues). Before the  
submission please check that it has not been done yet by someone else.

If you want to contribute, submit  
a [pull request](https://github.com/ivmai/bdwgc/pulls) to GitHub.

If you need help, use  
[Stack Overflow](https://stackoverflow.com/questions/tagged/boehm-gc).  
Older technical discussions are available in `bdwgc` mailing list archive - it  
can be downloaded as a  
[compressed file](https://github.com/ivmai/bdwgc/files/1038163/bdwgc-mailing-list-archive-2017\_04.tar.gz)  
or browsed at [Narkive](http://bdwgc.opendylan.narkive.com).

To get new release announcements, subscribe to  
[RSS feed](https://github.com/ivmai/bdwgc/releases.atom).  
(To receive the notifications by email, a 3rd-party free service like  
[IFTTT RSS Feed](https://ifttt.com/feed) can be setup.)  
To be notified on all issues, please  
[watch](https://github.com/ivmai/bdwgc/watchers) the project on  
GitHub.

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The files pthread\_stop\_world.c, pthread\_support.c and some others are also

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The file include/gc.h is also

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The files extra/msvc\_dbg.c and include/private/msvc\_dbg.h are

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The file tests/disclaim\_weakmap\_test.c is

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A few of the files needed to use the GNU-style build procedure come with slightly different licenses, though they are all similar in spirit. A few are GPL'ed, but with an exception that should cover all uses in the collector. (If you are concerned about such things, I recommend you look at the notice in config.guess or ltmain.sh.)

Found in path(s):

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\* /opt/ws\_local/PERMITS\_SQL/1068673867\_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-COz3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/tests/test.c

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- \* /opt/ws\_local/PERMITS\_SQL/1068673867\_1594646488.93/0/gc-8.0.4-3.fc32.src.rpm-cosi-expand-archive-COz3oyju/gc-8.0.4.tar.gz-cosi-expand-archive-OtvjfcvN/gc-8.0.4/include/gc\_version.h
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# 1.187 brlty 6.0

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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd

may be obtained from <http://java.sun.com/xml/ns/javaee/>

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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute



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

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

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=====  
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# 1.197 openjdk-jre 7u181-2.6.14-0ubuntu0.3

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# 1.199 sysv-init 2.88dsf-41ubuntu6.3

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Send patches to [sysvinit-devel@nongnu.org](mailto:sysvinit-devel@nongnu.org)

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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This package contains the mechanism for executing the right scripts in the right order at bootup/shutdown time, and when changing runlevels. It works through managing symlinks in `/etc/rc?.d`

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# 1.204 mod-perl 2.0.8+httpd24-r1449661-6ubuntu2.1

## 1.204.1 Available under license :

Apache-Test was originally developed by:

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Now maintained by:

Fred Moyer <fred@redhotpenguin.com>

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## 1.205 xfsprogs 3.1.9ubuntu2.1

### 1.205.1 Available under license :

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Sun, 19 Nov 2000 07:37:09 -0500.

It can be downloaded from <ftp://oss.sgi.com/projects/xfs/download/>

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/\*

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# 1.210 asm 2018.4.8

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# 1.211 kmod 27

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```

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```
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at assemblers) written by James Hacker.
```

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

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---

abstract: 'Build and install Perl modules'

author:

- 'Ken Williams <kwilliams@cpan.org>'

- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-



build@perl.org>."  
build\_requires:  
File::Temp: 0.15  
Test::Harness: 3.16  
Test::More: 0.49  
generated\_by: 'Module::Build version 0.3608'  
license: gpl  
meta-spec:  
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>  
version: 1.4  
name: Module-Build  
resources:  
MailingList: <mailto:module-build@perl.org>  
license: <http://dev.perl.org/licenses/>  
repository: <http://github.com/dagolden/module-build/>  
version: 3

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at assemblers) written by James Hacker.
```

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

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```
use strict;
use lib 't/lib';
use MBTest;
use DistGen;
```

```
plan 'no_plan';
```

```
Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');
```

```
#-----#
Create test distribution
#-----#
```

```
{
my $dist = DistGen->new(
 name => 'Simple::Name',
 version => '0.01',
 license => 'perl'
```



```

);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok($mb, "Module::Build");
is($mb->license, 'perl',
 "license 'perl' is valid"
);

my $meta = $mb->get_metadata(fatal => 0);

is($meta->{license} => 'perl', "META license will be 'perl'");
is($meta->{resources}{license}, "http://dev.perl.org/licenses/",
 "META license URL is correct"
);

}

{
my $dist = DistGen->new(
 name => 'Simple::Name',
 version => '0.01',
 license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok($mb, "Module::Build");
is($mb->license, 'VaporWare',
 "license 'VaporWare' is valid"
);

my $meta = $mb->get_metadata(fatal => 0);

is($meta->{license} => 'unrestricted', "META license will be 'unrestricted'");
is($meta->{resources}{license}, "http://example.com/vaporware/",
 "META license URL is correct"
);

}

Test with alpha number
vim:ts=2:sw=2:et:sta:sts=2

```



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Jean-loup Gailly	Mark Adler
jloup@gzip.org	madler@alumni.caltech.edu

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Thu, 7 Mar 2002 01:05:25 +0900.

It was downloaded from <<http://ftp.gnome.org/pub/GNOME/sources/glib/>>.

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# 1.223 tokyo-cabinet 1.4.48 2

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## 1.224 qemu 2.0.0+dfsg 2ubuntu1.44

### 1.224.1 Available under license :

```
/*
 * System call numbers.
 *
 * $FreeBSD: src/sys/sys/syscall.h,v 1.224 2008/08/24 21:23:08 rwatson Exp $
 * created from FreeBSD: head/sys/kern/syscalls.master 182123 2008-08-24 21:20:35Z rwatson
 */
```

```
#define TARGET_FREEBSD_NR_syscall 0
#define TARGET_FREEBSD_NR_exit 1
#define TARGET_FREEBSD_NR_fork 2
#define TARGET_FREEBSD_NR_read 3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open 5
```



```

#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
#define TARGET_FREEBSD_NR_link 9
#define TARGET_FREEBSD_NR_unlink 10
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
#define TARGET_FREEBSD_NR_getppid 39
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
#define TARGET_FREEBSD_NR_getgid 47
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61

```



```

#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
#define TARGET_FREEBSD_NR_getpriority 100
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
#define TARGET_FREEBSD_NR_adjtime 140

```



```

#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_getdomainname 162
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Version 2, June 1991

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\*

\* @(#)mman.h 8.2 (Berkeley) 1/9/95

\* \$FreeBSD: src/sys/mman.h,v 1.42 2008/03/28 04:29:27 ps Exp \$

\*/

#define TARGET\_FREEBSD\_MAP\_RESERVED0080 0x0080 /\* previously misimplemented MAP\_INHERIT \*/

#define TARGET\_FREEBSD\_MAP\_RESERVED0100 0x0100 /\* previously unimplemented MAP\_NOEXTEND

\*/

#define TARGET\_FREEBSD\_MAP\_STACK 0x0400 /\* region grows down, like a stack \*/

#define TARGET\_FREEBSD\_MAP\_NOSYNC 0x0800 /\* page to but do not sync underlying file \*/

#define TARGET\_FREEBSD\_MAP\_FLAGMASK 0x1ff7

/\* \$NetBSD: mman.h,v 1.42 2008/11/18 22:13:49 ad Exp \$ \*/

/\*\_

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```

*
* @(#)mman.h 8.2 (Berkeley) 1/9/95
*/

#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $OpenBSD: mman.h,v 1.18 2003/07/21 22:52:19 tedu Exp $ */
/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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*
* @(#)mman.h 8.1 (Berkeley) 6/2/93
*/

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

```



```

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7
Default configuration for i386-bsd-user
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
 * System call numbers.
 */
/* created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
 */

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open 5
#define TARGET_NETBSD_NR_close 6
#define TARGET_NETBSD_NR_wait4 7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link 9
#define TARGET_NETBSD_NR_unlink 10
#define TARGET_NETBSD_NR_chdir 12
#define TARGET_NETBSD_NR_fchdir 13
#define TARGET_NETBSD_NR_mknod 14
#define TARGET_NETBSD_NR_chmod 15
#define TARGET_NETBSD_NR_chown 16
#define TARGET_NETBSD_NR_break 17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek 19
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_compat_40_mount 21
#define TARGET_NETBSD_NR_unmount 22
#define TARGET_NETBSD_NR_setuid 23
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_geteuid 25
#define TARGET_NETBSD_NR_ptrace 26
#define TARGET_NETBSD_NR_recvmmsg 27
#define TARGET_NETBSD_NR_sendmsg 28
#define TARGET_NETBSD_NR_recvfrom 29
#define TARGET_NETBSD_NR_accept 30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32

```



```

#define TARGET_NETBSD_NR_access 33
#define TARGET_NETBSD_NR_chflags 34
#define TARGET_NETBSD_NR_fchflags 35
#define TARGET_NETBSD_NR_sync 36
#define TARGET_NETBSD_NR_kill 37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid 39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_getegid 43
#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13 48
#define TARGET_NETBSD_NR___getlogin 49
#define TARGET_NETBSD_NR___setlogin 50
#define TARGET_NETBSD_NR_acct 51
#define TARGET_NETBSD_NR_compat_13_sigpending13 52
#define TARGET_NETBSD_NR_compat_13_sigaltstack13 53
#define TARGET_NETBSD_NR_ioctl 54
#define TARGET_NETBSD_NR_compat_12_oreboot 55
#define TARGET_NETBSD_NR_revoke 56
#define TARGET_NETBSD_NR_symlink 57
#define TARGET_NETBSD_NR_readlink 58
#define TARGET_NETBSD_NR_execve 59
#define TARGET_NETBSD_NR_umask 60
#define TARGET_NETBSD_NR_chroot 61
#define TARGET_NETBSD_NR_compat_43_fstat43 62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo 63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize 64
#define TARGET_NETBSD_NR_compat_12_msync 65
#define TARGET_NETBSD_NR_vfork 66
#define TARGET_NETBSD_NR_sbrk 69
#define TARGET_NETBSD_NR_sstk 70
#define TARGET_NETBSD_NR_compat_43_ommap 71
#define TARGET_NETBSD_NR_vadvise 72
#define TARGET_NETBSD_NR_munmap 73
#define TARGET_NETBSD_NR_mprotect 74
#define TARGET_NETBSD_NR_madvise 75
#define TARGET_NETBSD_NR_mincore 78
#define TARGET_NETBSD_NR_getgroups 79
#define TARGET_NETBSD_NR_setgroups 80
#define TARGET_NETBSD_NR_getpgrp 81
#define TARGET_NETBSD_NR_setpgid 82
#define TARGET_NETBSD_NR_setitimer 83

```



```

#define TARGET_NETBSD_NR_compat_43_owait 84
#define TARGET_NETBSD_NR_compat_12_oswapon 85
#define TARGET_NETBSD_NR_getitimer 86
#define TARGET_NETBSD_NR_compat_43_ogethostname 87
#define TARGET_NETBSD_NR_compat_43_ogethostname 88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize 89
#define TARGET_NETBSD_NR_dup2 90
#define TARGET_NETBSD_NR_fcntl 92
#define TARGET_NETBSD_NR_select 93
#define TARGET_NETBSD_NR_fsync 95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket 97
#define TARGET_NETBSD_NR_connect 98
#define TARGET_NETBSD_NR_compat_43_oaccept 99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend 101
#define TARGET_NETBSD_NR_compat_43_orecv 102
#define TARGET_NETBSD_NR_compat_13_sigreturn13 103
#define TARGET_NETBSD_NR_bind 104
#define TARGET_NETBSD_NR_setsockopt 105
#define TARGET_NETBSD_NR_listen 106
#define TARGET_NETBSD_NR_compat_43_osigvec 108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask 110
#define TARGET_NETBSD_NR_compat_13_sigsuspend13 111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg 113
#define TARGET_NETBSD_NR_compat_43_osendmsg 114
#define TARGET_NETBSD_NR_gettimeofday 116
#define TARGET_NETBSD_NR_getrusage 117
#define TARGET_NETBSD_NR_getsockopt 118
#define TARGET_NETBSD_NR_readv 120
#define TARGET_NETBSD_NR_writev 121
#define TARGET_NETBSD_NR_settimeofday 122
#define TARGET_NETBSD_NR_fchown 123
#define TARGET_NETBSD_NR_fchmod 124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid 126
#define TARGET_NETBSD_NR_setregid 127
#define TARGET_NETBSD_NR_rename 128
#define TARGET_NETBSD_NR_compat_43_otruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate 130
#define TARGET_NETBSD_NR_flock 131
#define TARGET_NETBSD_NR_mkfifo 132
#define TARGET_NETBSD_NR_sendto 133
#define TARGET_NETBSD_NR_shutdown 134
#define TARGET_NETBSD_NR_socketpair 135
#define TARGET_NETBSD_NR_mkdir 136

```



```

#define TARGET_NETBSD_NR_rmdir 137
#define TARGET_NETBSD_NR_utimes 138
#define TARGET_NETBSD_NR_adjtime 140
#define TARGET_NETBSD_NR_compat_43_ogetpeername 141
#define TARGET_NETBSD_NR_compat_43_ogethostid 142
#define TARGET_NETBSD_NR_compat_43_ogethostid 143
#define TARGET_NETBSD_NR_compat_43_ogetrlimit 144
#define TARGET_NETBSD_NR_compat_43_ogetrlimit 145
#define TARGET_NETBSD_NR_compat_43_okillpg 146
#define TARGET_NETBSD_NR_setsid 147
#define TARGET_NETBSD_NR_quotactl 148
#define TARGET_NETBSD_NR_compat_43_oquota 149
#define TARGET_NETBSD_NR_compat_43_ogetsockname 150
#define TARGET_NETBSD_NR_nfssvc 155
#define TARGET_NETBSD_NR_compat_43_ogetdirentries 156
#define TARGET_NETBSD_NR_compat_20_statfs 157
#define TARGET_NETBSD_NR_compat_20_fstatfs 158
#define TARGET_NETBSD_NR_compat_30_getfh 161
#define TARGET_NETBSD_NR_compat_09_ogetdomainname 162
#define TARGET_NETBSD_NR_compat_09_ogetdomainname 163
#define TARGET_NETBSD_NR_compat_09_ouname 164
#define TARGET_NETBSD_NR_sysarch 165
#define TARGET_NETBSD_NR_compat_10_osemsys 169
#define TARGET_NETBSD_NR_compat_10_omsgsys 170
#define TARGET_NETBSD_NR_compat_10_oshmsys 171
#define TARGET_NETBSD_NR_pread 173
#define TARGET_NETBSD_NR_pwrite 174
#define TARGET_NETBSD_NR_compat_30_ntp_gettime 175
#define TARGET_NETBSD_NR_ntp_adjtime 176
#define TARGET_NETBSD_NR_setgid 181
#define TARGET_NETBSD_NR_setegid 182
#define TARGET_NETBSD_NR_seteuid 183
#define TARGET_NETBSD_NR_lfs_bmapv 184
#define TARGET_NETBSD_NR_lfs_markv 185
#define TARGET_NETBSD_NR_lfs_segclean 186
#define TARGET_NETBSD_NR_lfs_segwait 187
#define TARGET_NETBSD_NR_compat_12_stat12 188
#define TARGET_NETBSD_NR_compat_12_fstat12 189
#define TARGET_NETBSD_NR_compat_12_lstat12 190
#define TARGET_NETBSD_NR_pathconf 191
#define TARGET_NETBSD_NR_fpathconf 192
#define TARGET_NETBSD_NR_getrlimit 194
#define TARGET_NETBSD_NR_setrlimit 195
#define TARGET_NETBSD_NR_compat_12_getdirentries 196
#define TARGET_NETBSD_NR_mmap 197
#define TARGET_NETBSD_NR___syscall 198
#define TARGET_NETBSD_NR_lseek 199
#define TARGET_NETBSD_NR_truncate 200

```



```

#define TARGET_NETBSD_NR_ftruncate 201
#define TARGET_NETBSD_NR___sysctl 202
#define TARGET_NETBSD_NR_mlock 203
#define TARGET_NETBSD_NR_munlock 204
#define TARGET_NETBSD_NR_undelete 205
#define TARGET_NETBSD_NR_futimes 206
#define TARGET_NETBSD_NR_getpgid 207
#define TARGET_NETBSD_NR_reboot 208
#define TARGET_NETBSD_NR_poll 209
#define TARGET_NETBSD_NR_compat_14___semctl 220
#define TARGET_NETBSD_NR_semget 221
#define TARGET_NETBSD_NR_semop 222
#define TARGET_NETBSD_NR_semconfig 223
#define TARGET_NETBSD_NR_compat_14_msgctl 224
#define TARGET_NETBSD_NR_msgget 225
#define TARGET_NETBSD_NR_msgsnd 226
#define TARGET_NETBSD_NR_msgrcv 227
#define TARGET_NETBSD_NR_shmat 228
#define TARGET_NETBSD_NR_compat_14_shmctl 229
#define TARGET_NETBSD_NR_shmdt 230
#define TARGET_NETBSD_NR_shmget 231
#define TARGET_NETBSD_NR_clock_gettime 232
#define TARGET_NETBSD_NR_clock_settime 233
#define TARGET_NETBSD_NR_clock_getres 234
#define TARGET_NETBSD_NR_timer_create 235
#define TARGET_NETBSD_NR_timer_delete 236
#define TARGET_NETBSD_NR_timer_settime 237
#define TARGET_NETBSD_NR_timer_gettime 238
#define TARGET_NETBSD_NR_timer_getoverrun 239
#define TARGET_NETBSD_NR_nanosleep 240
#define TARGET_NETBSD_NR_fdatasync 241
#define TARGET_NETBSD_NR_mlockall 242
#define TARGET_NETBSD_NR_munlockall 243
#define TARGET_NETBSD_NR___sigtimedwait 244
#define TARGET_NETBSD_NR_modctl 246
#define TARGET_NETBSD_NR_ksem_init 247
#define TARGET_NETBSD_NR_ksem_open 248
#define TARGET_NETBSD_NR_ksem_unlink 249
#define TARGET_NETBSD_NR_ksem_close 250
#define TARGET_NETBSD_NR_ksem_post 251
#define TARGET_NETBSD_NR_ksem_wait 252
#define TARGET_NETBSD_NR_ksem_trywait 253
#define TARGET_NETBSD_NR_ksem_getvalue 254
#define TARGET_NETBSD_NR_ksem_destroy 255
#define TARGET_NETBSD_NR_mq_open 257
#define TARGET_NETBSD_NR_mq_close 258
#define TARGET_NETBSD_NR_mq_unlink 259
#define TARGET_NETBSD_NR_mq_getattr 260

```



```

#define TARGET_NETBSD_NR_mq_setattr 261
#define TARGET_NETBSD_NR_mq_notify 262
#define TARGET_NETBSD_NR_mq_send 263
#define TARGET_NETBSD_NR_mq_receive 264
#define TARGET_NETBSD_NR_mq_timedsend 265
#define TARGET_NETBSD_NR_mq_timedreceive 266
#define TARGET_NETBSD_NR___posix_rename 270
#define TARGET_NETBSD_NR_swapctl 271
#define TARGET_NETBSD_NR_compat_30_getdents 272
#define TARGET_NETBSD_NR_minherit 273
#define TARGET_NETBSD_NR_lchmod 274
#define TARGET_NETBSD_NR_lchown 275
#define TARGET_NETBSD_NR_lutimes 276
#define TARGET_NETBSD_NR___msync13 277
#define TARGET_NETBSD_NR_compat_30___stat13 278
#define TARGET_NETBSD_NR_compat_30___fstat13 279
#define TARGET_NETBSD_NR_compat_30___lstat13 280
#define TARGET_NETBSD_NR___sigaltstack14 281
#define TARGET_NETBSD_NR___vfork14 282
#define TARGET_NETBSD_NR___posix_chown 283
#define TARGET_NETBSD_NR___posix_fchown 284
#define TARGET_NETBSD_NR___posix_lchown 285
#define TARGET_NETBSD_NR_getsid 286
#define TARGET_NETBSD_NR___clone 287
#define TARGET_NETBSD_NR_fktrace 288
#define TARGET_NETBSD_NR_preadv 289
#define TARGET_NETBSD_NR_pwritev 290
#define TARGET_NETBSD_NR_compat_16___sigaction14 291
#define TARGET_NETBSD_NR___sigpending14 292
#define TARGET_NETBSD_NR___sigprocmask14 293
#define TARGET_NETBSD_NR___sigsuspend14 294
#define TARGET_NETBSD_NR_compat_16___sigreturn14 295
#define TARGET_NETBSD_NR___getcwd 296
#define TARGET_NETBSD_NR_fchroot 297
#define TARGET_NETBSD_NR_compat_30_fhopen 298
#define TARGET_NETBSD_NR_compat_30_fhstat 299
#define TARGET_NETBSD_NR_compat_20_fhstatfs 300
#define TARGET_NETBSD_NR___semctl13 301
#define TARGET_NETBSD_NR___msgctl13 302
#define TARGET_NETBSD_NR___shmctl13 303
#define TARGET_NETBSD_NR_lchflags 304
#define TARGET_NETBSD_NR_issetugid 305
#define TARGET_NETBSD_NR_utrace 306
#define TARGET_NETBSD_NR_getcontext 307
#define TARGET_NETBSD_NR_setcontext 308
#define TARGET_NETBSD_NR_lwp_create 309
#define TARGET_NETBSD_NR_lwp_exit 310
#define TARGET_NETBSD_NR_lwp_self 311

```



```

#define TARGET_NETBSD_NR__lwp_wait 312
#define TARGET_NETBSD_NR__lwp_suspend 313
#define TARGET_NETBSD_NR__lwp_continue 314
#define TARGET_NETBSD_NR__lwp_wakeup 315
#define TARGET_NETBSD_NR__lwp_getprivate 316
#define TARGET_NETBSD_NR__lwp_setprivate 317
#define TARGET_NETBSD_NR__lwp_kill 318
#define TARGET_NETBSD_NR__lwp_detach 319
#define TARGET_NETBSD_NR__lwp_park 320
#define TARGET_NETBSD_NR__lwp_unpark 321
#define TARGET_NETBSD_NR__lwp_unpark_all 322
#define TARGET_NETBSD_NR__lwp_setname 323
#define TARGET_NETBSD_NR__lwp_getname 324
#define TARGET_NETBSD_NR__lwp_ctl 325
#define TARGET_NETBSD_NR__sa_register 330
#define TARGET_NETBSD_NR__sa_stacks 331
#define TARGET_NETBSD_NR__sa_enable 332
#define TARGET_NETBSD_NR__sa_setconcurrency 333
#define TARGET_NETBSD_NR__sa_yield 334
#define TARGET_NETBSD_NR__sa_preempt 335
#define TARGET_NETBSD_NR__sa_unblockyield 336
#define TARGET_NETBSD_NR__sigaction_sigtramp 340
#define TARGET_NETBSD_NR__pmc_get_info 341
#define TARGET_NETBSD_NR__pmc_control 342
#define TARGET_NETBSD_NR__rasctl 343
#define TARGET_NETBSD_NR__kqueue 344
#define TARGET_NETBSD_NR__kevent 345
#define TARGET_NETBSD_NR__sched_setparam 346
#define TARGET_NETBSD_NR__sched_getparam 347
#define TARGET_NETBSD_NR__sched_setaffinity 348
#define TARGET_NETBSD_NR__sched_getaffinity 349
#define TARGET_NETBSD_NR__sched_yield 350
#define TARGET_NETBSD_NR__fsync_range 354
#define TARGET_NETBSD_NR__uuidgen 355
#define TARGET_NETBSD_NR__getvfsstat 356
#define TARGET_NETBSD_NR__statvfs1 357
#define TARGET_NETBSD_NR__fstatvfs1 358
#define TARGET_NETBSD_NR__compat_30_fhstatvfs1 359
#define TARGET_NETBSD_NR__extattrctl 360
#define TARGET_NETBSD_NR__extattr_set_file 361
#define TARGET_NETBSD_NR__extattr_get_file 362
#define TARGET_NETBSD_NR__extattr_delete_file 363
#define TARGET_NETBSD_NR__extattr_set_fd 364
#define TARGET_NETBSD_NR__extattr_get_fd 365
#define TARGET_NETBSD_NR__extattr_delete_fd 366
#define TARGET_NETBSD_NR__extattr_set_link 367
#define TARGET_NETBSD_NR__extattr_get_link 368
#define TARGET_NETBSD_NR__extattr_delete_link 369

```



```

#define TARGET_NETBSD_NR_extattr_list_fd 370
#define TARGET_NETBSD_NR_extattr_list_file 371
#define TARGET_NETBSD_NR_extattr_list_link 372
#define TARGET_NETBSD_NR_pselect 373
#define TARGET_NETBSD_NR_pollts 374
#define TARGET_NETBSD_NR_setxattr 375
#define TARGET_NETBSD_NR_lsetxattr 376
#define TARGET_NETBSD_NR_fsetxattr 377
#define TARGET_NETBSD_NR_getxattr 378
#define TARGET_NETBSD_NR_lgetxattr 379
#define TARGET_NETBSD_NR_fgetxattr 380
#define TARGET_NETBSD_NR_listxattr 381
#define TARGET_NETBSD_NR_llistxattr 382
#define TARGET_NETBSD_NR_flistxattr 383
#define TARGET_NETBSD_NR_removexattr 384
#define TARGET_NETBSD_NR_lremovexattr 385
#define TARGET_NETBSD_NR_fremovexattr 386
#define TARGET_NETBSD_NR___stat30 387
#define TARGET_NETBSD_NR___fstat30 388
#define TARGET_NETBSD_NR___lstat30 389
#define TARGET_NETBSD_NR___getdents30 390
#define TARGET_NETBSD_NR_compat_30___fhstat30 392
#define TARGET_NETBSD_NR___ntp_gettime30 393
#define TARGET_NETBSD_NR___socket30 394
#define TARGET_NETBSD_NR___getfh30 395
#define TARGET_NETBSD_NR___fhopen40 396
#define TARGET_NETBSD_NR___fhstatvfs140 397
#define TARGET_NETBSD_NR___fhstat40 398
#define TARGET_NETBSD_NR_aio_cancel 399
#define TARGET_NETBSD_NR_aio_error 400
#define TARGET_NETBSD_NR_aio_fsync 401
#define TARGET_NETBSD_NR_aio_read 402
#define TARGET_NETBSD_NR_aio_return 403
#define TARGET_NETBSD_NR_aio_suspend 404
#define TARGET_NETBSD_NR_aio_write 405
#define TARGET_NETBSD_NR_lio_listio 406
#define TARGET_NETBSD_NR___mount50 410
#define TARGET_NETBSD_NR_mremap 411
#define TARGET_NETBSD_NR_pset_create 412
#define TARGET_NETBSD_NR_pset_destroy 413
#define TARGET_NETBSD_NR_pset_assign 414
#define TARGET_NETBSD_NR_pset_bind 415
#define TARGET_NETBSD_NR___posix_fadvise50 416
Default configuration for sparc64-bsd-user
/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $ */

/*
* System call numbers.

```



\*

\* created from;      OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp

\*/

```
#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
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#define TARGET_OPENBSD_NR_lchown 254
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#define TARGET_OPENBSD_NR_kevent 270
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#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
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#define TARGET_OPENBSD_NR_fstatfs 308
#define TARGET_OPENBSD_NR_fhstatfs 309

```



```
/* syscall flags from machine/trap.h */
```

```
/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
```

```
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */
```

```
/*
```

```
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```
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```

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```

```
*
```

```
*/
```

```
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400 /* on success, return to %g2 rather than npc */
```

```
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800 /* use %g7 as above (deprecated) */
```

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The upstream source was downloaded from:

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All the binary blobs without sources contained in the pc-bios/ directory (\*.dtb, \*.bin, \*.rom, openbios-\*, palcode-clipper) in the original upstream git repository have been removed starting from Debian package version 0.6.0.dfsg.1-1. Those roms which are free can be found in split packages of their own, represented accordingly in the dependency relationships.

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/\* \$OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp \$ \*/

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\*

\* @(#)errno.h 8.5 (Berkeley) 1/21/94

\*/

#define TARGET\_EPERM 1 /\* Operation not permitted \*/

#define TARGET\_ENOENT 2 /\* No such file or directory \*/

#define TARGET\_ESRCH 3 /\* No such process \*/

#define TARGET\_EINTR 4 /\* Interrupted system call \*/

#define TARGET\_EIO 5 /\* Input/output error \*/

#define TARGET\_ENXIO 6 /\* Device not configured \*/

#define TARGET\_E2BIG 7 /\* Argument list too long \*/

#define TARGET\_ENOEXEC 8 /\* Exec format error \*/

#define TARGET\_EBADF 9 /\* Bad file descriptor \*/



```

#define TARGET_ECHILD 10 /* No child processes */
#define TARGET_EDEADLK 11 /* Resource deadlock avoided */
 /* 11 was EAGAIN */
#define TARGET_ENOMEM 12 /* Cannot allocate memory */
#define TARGET_EACCES 13 /* Permission denied */
#define TARGET_EFAULT 14 /* Bad address */
#define TARGET_ENOTBLK 15 /* Block device required */
#define TARGET_EBUSY 16 /* Device busy */
#define TARGET_EEXIST 17 /* File exists */
#define TARGET_EXDEV 18 /* Cross-device link */
#define TARGET_ENODEV 19 /* Operation not supported by device */
#define TARGET_ENOTDIR 20 /* Not a directory */
#define TARGET_EISDIR 21 /* Is a directory */
#define TARGET_EINVAL 22 /* Invalid argument */
#define TARGET_ENFILE 23 /* Too many open files in system */
#define TARGET_EMFILE 24 /* Too many open files */
#define TARGET_ENOTTY 25 /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 26 /* Text file busy */
#define TARGET_EFBIG 27 /* File too large */
#define TARGET_ENOSPC 28 /* No space left on device */
#define TARGET_ESPIPE 29 /* Illegal seek */
#define TARGET_EROFS 30 /* Read-only file system */
#define TARGET_EMLINK 31 /* Too many links */
#define TARGET_EPIPE 32 /* Broken pipe */

/* math software */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET_ERANGE 34 /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36 /* Operation now in progress */
#define TARGET_EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET EMSGSIZE 40 /* Message too long */
#define TARGET_EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48 /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

```



```

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET_ENOBUFS 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_ENOTCONN 57 /* Socket is not connected */
#define TARGET_ESHUTDOWN 58 /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59 /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60 /* Operation timed out */
#define TARGET_ECONNREFUSED 61 /* Connection refused */

#define TARGET_ELOOP 62 /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63 /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66 /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67 /* Too many processes */
#define TARGET_EUSERS 68 /* Too many users */
#define TARGET_EDQUOT 69 /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70 /* Stale NFS file handle */
#define TARGET_EREMOTE 71 /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */

#define TARGET_ENOLCK 77 /* No locks available */
#define TARGET_ENOSYS 78 /* Function not implemented */

#define TARGET_EFTYPE 79 /* Inappropriate file type or format */
#define TARGET_EAUTH 80 /* Authentication error */
#define TARGET_ENEEDAUTH 81 /* Need authenticator */
#define TARGET_EIPSEC 82 /* IPsec processing failure */
#define TARGET_ENOATTR 83 /* Attribute not found */
#define TARGET_EILSEQ 84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85 /* No medium found */
#define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */

```



```
#define TARGET_EOVERFLOW 87 /* Conversion overflow */
#define TARGET_ECANCELED 88 /* Operation canceled */
#define TARGET_EIDRM 89 /* Identifier removed */
#define TARGET_ENOMSG 90 /* No message of desired type */
#define TARGET_ELAST 90 /* Must be equal largest errno */
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# 1.228 spice 0.12.4-0nocelt2ubuntu1.8

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

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GNU gettext was written by Ulrich Drepper <drepper@gnu.org>.  
emacs po-mode was written by Francois Pinard <pinard@iro.umontreal.ca>.

This package was first created by Erick Branderhorst <branderh@debian.org>, and is currently maintained by Santiago Vila <sanvila@debian.org>.

This release has been built using the sources from:

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

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A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library''. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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



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@item

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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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

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.

@item

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item

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

@end enumerate

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

@item

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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@page

@unnumberedsubsec How to Apply These Terms to Your New Libraries

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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.

@smallexample

@var{one line to give the library's name and an idea of what it does.}

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@end smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

@smallexample

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

@end smallexample

That's all there is to it!

The gettext-runtime package is partially under the LGPL and partially under the GPL.

The following parts are under the LGPL, see file intl/COPYING.LIB:

- the libintl and libasprintf libraries and their header files,
- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

The following parts are under the GPL, see file COPYING in the toplevel



directory:

- the `_programs_` gettext, ngettext, envsubst,
- the documentation.

@node GNU GPL

@appendixsec GNU GENERAL PUBLIC LICENSE

@cindex GPL, GNU General Public License

@cindex License, GNU GPL

@center Version 2, June 1991

@c This file is intended to be included in another file.

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@iftex

@unnumberedsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@page  
@unnumberedsubsec Appendix: How to Apply These Terms to Your New Programs



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@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

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@end smallexample

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@smallexample

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

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@end smallexample

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You should also get your employer (if you work as a programmer) or your



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@example

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

@end example

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Version 3, 29 June 2007

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## 1.244 cg-manager 0.24-0ubuntu7.5

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- javaee\_5.xsd
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- javaee\_web\_services\_1\_3.xsd
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- web-app\_3\_0.xsd
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- javaee\_web\_services\_1\_3.xsd
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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd

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## 1.252 libatasmart 0.19-3

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## 1.253 gccgo 4.9.3 Ubuntu4

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```
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```

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@ignore

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@settitle GNU General Public License

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gfdl(7), fsf-funding(7).

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.



Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).  
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).  
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.  
David Chase, then at Olivetti Research, suggested several improvements.  
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.  
Jesse Hull and John Ellis supplied the C++ interface code.  
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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\* m4/ax\_func\_which\_gethostbyname\_r.m4

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

@c man end

@node Library Copying

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

@display

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@page

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```
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@end smallexample
```

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```
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`Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
```

That's all there is to it!

```
=====
compiler_rt License
=====
```

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Developed by:

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Program	Directory
-----	-----
mach_override	lib/interception/mach_override

## 1.254 time 1.7-24

### 1.254.1 Available under license :

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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.>

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Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: time

Upstream-Contact: bug-gnu-utils@gnu.org

Source: <http://ftp.gnu.org/pub/gnu/time/time-1.7.tar.gz>

Comment:

This is Debian GNU/Linux's prepackaged version of the FSF's GNU time utility. `time' is a program that measures many of the CPU resources, such as time and memory, that other programs use. It was written by David Keppel. It was subsequently maintained and improved by David MacKenzie with help from Arne Henrik Juul, and Francois Pinard.

.

This package was put together by Dirk Eddelbuettel from the previous Debian package time-1.6-2 (from ftp.debian.org) and the GNU sources for time-1.6. The package was subsequently maintained and updated by Tollef Fog Heen, Salvatore Bonaccorso, and Bob Proulx.

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# 1.255 pcre 8.31-2ubuntu2.3

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

### THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

University of Cambridge Computing Service,  
Cambridge, England.

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### PCRE JUST-IN-TIME COMPILATION SUPPORT

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# 1.256 libexif 0.6.21-1ubuntu1

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\*

\* @(#)extern.h 8.2 (Berkeley) 4/18/94

\*/



Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483586\_1594413776.44/0/pax-20120606-orig-1-tar-gz/pax-20120606/extern.h

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```

.\" $MirOS: src/bin/pax/cpio.1,v 1.33 2012/06/05 19:29:33 tg Exp $
.\" $OpenBSD: cpio.1,v 1.34 2011/09/03 22:59:08 jmc Exp $
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.\" * ` generates ` in gnroff, so use \`
.\" * ' generates ' in gnroff, \ generates ´, so use *(aq
.\" * - generates in gnroff, \- generates , so .tr it to -
.\" thus use - for hyphens and \- for minus signs and option dashes
.\" * ~ is size-reduced and placed atop in groff, so use *(TI
.\" * ^ is size-reduced and placed atop in groff, so use *(ha
.\" * \en does not work in nroff, so use *(en
.\" * <> are problematic, so redefine and use *(Lt*(Gt*(Ba
.\" Also make sure to use \& especially with two-letter words.
.\" The section after the "doc" macropackage has been loaded contains
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.\"
.\"
.\" Implement .Dd with the Mdocdate RCS keyword
.\"
.\"
.\" .Dd must come before definition of .Mx, because when called
.\" with -mandoc, it might implement .Mx itself, but we want to

```



```

.\" use our own definition. And .Dd must come *first*, always.
.\"
.\"
.\" Check which macro package we use, and do other -mdoc setup.
.\"
.\"
.\" Implement .Mx (MirBSD)
.\"
.\"-
.\"-

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1068483586_1594413776.44/0/pax-20120606-orig-1-tar-gz/pax-20120606/cpio.1
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```



\* @(#)tables.h 8.1 (Berkeley) 5/31/93

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- \* @(#)cpio.h 8.1 (Berkeley) 5/31/93
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- \* /opt/ws\_local/PERMITS\_SQL/1068483586\_1594413776.44/0/pax-20120606-orig-1-tar-gz/pax-20120606/ar\_io.c
- \* /opt/ws\_local/PERMITS\_SQL/1068483586\_1594413776.44/0/pax-20120606-orig-1-tar-gz/pax-
- 20120606/gen\_subs.c

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```
.\" $MirOS: src/bin/pax/tar.1,v 1.26 2012/06/05 19:29:34 tg Exp $
.\" $OpenBSD: tar.1,v 1.55 2010/12/02 04:08:27 tedu Exp $
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.\" Try to make GNU groff and AT&T nroff more compatible

.\" \* ` generates ‘ in gnroff, so use \`

.\" \* ' generates ’ in gnroff, \' generates ´, so use \\*(aq

.\" \* - generates in gnroff, \- generates , so .tr it to -

.\" thus use - for hyphens and \- for minus signs and option dashes

.\" \* ~ is size-reduced and placed atop in groff, so use \\*(TI

.\" \* ^ is size-reduced and placed atop in groff, so use \\*(ha

.\" \* \\\(en does not work in nroff, so use \\*(en

.\" \* <>| are problematic, so redefine and use \\*(Lt\\*(Gt\\*(Ba

.\" Also make sure to use \& especially with two-letter words.

.\" The section after the "doc" macropackage has been loaded contains

.\" additional code to convene between the UCB mdoc macropackage (and

.\" its variant as BSD mdoc in groff) and the GNU mdoc macropackage.

.\"

.\"

.\" Implement .Dd with the Mdocdate RCS keyword

.\"

.\"

.\" .Dd must come before definition of .Mx, because when called

.\" with -mandoc, it might implement .Mx itself, but we want to

.\" use our own definition. And .Dd must come \*first\*, always.

.\"

.\"

.\" Check which macro package we use, and do other -mdoc setup.

.\"

.\"

.\" Implement .Mx (MirBSD)

.\"

.\"-

.\"-

Found in path(s):

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* @(#)cache.h 8.1 (Berkeley) 5/31/93
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```
.\" $MirOS: src/bin/pax/pax.1,v 1.24 2012/06/05 19:29:33 tg Exp $
.\" $OpenBSD: pax.1,v 1.61 2010/09/19 20:55:25 jmc Exp $
.\" $NetBSD: pax.1,v 1.3 1995/03/21 09:07:37 cgd Exp $
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.\" @(#)pax.1 8.4 (Berkeley) 4/18/94
.\"
.\"-
.\" Try to make GNU groff and AT&T nroff more compatible
.\" * ` generates ‘ in gnroff, so use \`
.\" * ' generates ’ in gnroff, \' generates ´, so use *(aq
.\" * - generates in gnroff, \- generates , so .tr it to -
.\" thus use - for hyphens and \- for minus signs and option dashes
.\" * ~ is size-reduced and placed atop in groff, so use *(TI
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.\" * \en does not work in nroff, so use *(en
.\" * <> are problematic, so redefine and use *(Lt*(Gt*(Ba
.\" Also make sure to use \& especially with two-letter words.
.\" The section after the "doc" macropackage has been loaded contains
.\" additional code to convene between the UCB mdoc macropackage (and
.\" its variant as BSD mdoc in groff) and the GNU mdoc macropackage.
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.\" .Dd must come before definition of .Mx, because when called
.\" with -mandoc, it might implement .Mx itself, but we want to
.\" use our own definition. And .Dd must come *first*, always.
.\"
.\"
.\" Check which macro package we use, and do other -mdoc setup.
.\"
.\"
.\" Implement .Mx (MirBSD)

```



.\"  
.\"-  
.\"-

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\* /opt/ws\_local/PERMITS\_SQL/1068483586\_1594413776.44/0/pax-20120606-orig-1-tar-gz/pax-20120606/sel\_subs.c

\* /opt/ws\_local/PERMITS\_SQL/1068483586\_1594413776.44/0/pax-20120606-orig-1-tar-gz/pax-20120606/cache.c

\* /opt/ws\_local/PERMITS\_SQL/1068483586\_1594413776.44/0/pax-20120606-orig-1-tar-gz/pax-



20120606/pat\_rep.c

\* /opt/ws\_local/PERMITS\_SQL/1068483586\_1594413776.44/0/pax-20120606-orig-1-tar-gz/pax-20120606/ftree.c

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\* Plug-compatible replacement for getopt() for parsing tar-like

\* arguments. If the first argument begins with "-", it uses getopt;

\* otherwise, it uses the old rules used by tar, dump, and ps.

\*

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\* @(#)pax.h 8.2 (Berkeley) 4/18/94

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## 1.269 dash 0.5.7-4ubuntu1

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# 1.271 base-files 7.2ubuntu5.6

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
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```
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install - install a program, script, or datafile
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# 1.280 zlib 1.2.3

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

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# 1.281 regexp 2.7.1

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# 1.282 shim 10.6

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## 1.286 dnstracer 1.9-4

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On all platforms, Nmap is normally linked with:

- o libpcap: Network packet capture library. Distributed with Nmap in the  
libpcap subdirectory.

<http://www.tcpdump.org/>

- o libdnet: Networking library, used for low-level tasks such as sending  
ethernet frames. A modified version is distributed with Nmap in the  
libdnet-stripped subdirectory. A summary of Nmap-local modifications  
is in the file NMAP\_MODIFICATIONS.

<http://code.google.com/p/libdnet/>

- o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's  
version detection and is also made available as an NSE library.  
Distributed with Nmap in the libpcre subdirectory.

<http://www.pcre.org/>

- o liblua: Lua programming language. Lua is the implementation language  
of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow  
running Lua programs inside Nmap. Distributed with Nmap in the liblua  
subdirectory. liblua can be omitted by configuring with the  
--without-liblua configuration directive.

<http://www.lua.org/>

- o OpenSSL: Cryptographic library. OpenSSL is used by service detection  
and by NSE to connect to SSL services. NSE also provides access to  
OpenSSL functions such as encryption and digest calculation. OpenSSL  
can be disabled by configuring with the --without-openssl  
configuration directive.

<http://www.openssl.org/>

- o LIBLINEAR. Used for IPv6 OS classification.

<http://www.csie.ntu.edu.tw/~cjlin/liblinear/>



- o libsvn. The Subversion library, used by the updater program  
nmap-update. <http://subversion.apache.org/>
- o APR (Apache Portable Runtime). Used by libsvn. <http://apr.apache.org/>

On Windows only, Nmap uses:

- o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.  
<http://www.winpcap.org/>

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Zenmap and Ndiff require:

- o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.  
<http://www.python.org/>

The Windows and Mac OS X binary packages include bundled versions of:

- o GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/LGPL-2.  
<http://www.gtk.org/>
- o Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files licenses/LGPL-2.1 and licenses/MPL-1.1.  
<http://www.cairographics.org/>
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o Various X.org libraries. These were built using MacPorts.

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#### THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

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--- end of FTL.TXT ---

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

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file



that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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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rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while



preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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## Commands to generate dependency files

GEN\_DEPS.c= \$(CC) -E -MM \$(DEFS) \$(CPPFLAGS)

GEN\_DEPS.cc= \$(CXX) -E -MM \$(DEFS) \$(CPPFLAGS)

## Flags for position independent code

SHAREDLIBCFLAGS = -fPIC

SHAREDLIBCXXFLAGS = -fPIC

SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads

THREADSCPPFLAGS = -D\_REENTRANT

LIBCPPFLAGS =

## Compiler switch to embed a runtime search path

LD\_RPATH=

LD\_RPATH\_PRE= -Wl,-rpath,

## Compiler switch to embed a library name

LD\_SONAME = -Wl,-soname -Wl,\$(notdir \$(MIDDLE\_SO\_TARGET))

## Shared library options

LD\_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix

SO = so

## Non-shared intermediate object suffix

STATIC\_O = ao

## Compilation rules

%. \$(STATIC\_O): \$(srcdir)/%.c

\$(COMPILE.c) \$(STATICCPPFLAGS) \$(STATICCFLAGS) -o \$@ \$<

%.o: \$(srcdir)/%.c



```

$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s/\($*\)\.o[:]*/\1.o $@ : /g"' > $@; \
[-s $@] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s/\($*\)\.o[:]*/\1.o $@ : /g"' > $@; \
[-s $@] || rm -f $@

Versioned libraries rules

%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@

Bind internal references

LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

Dependencies [i.e. map files] for the final library
BIR_DEPS=

Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

End BSD-specific setup

```

## 1.290 libgd 2.1.0-3ubuntu0.11



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<signature of Ty Coon>, 1 April 1989
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src="../javascript/main.js"></script><script language=JavaScript src="../javascript/prettify.js"></script><script
language=JavaScript src="../javascript/searchdata.js"></script></head><body class="ContentPage"
onLoad="NDOOnLoad();prettyPrint();"><script language=JavaScript><!--
if (browserType) { document.write("<div class=" + browserType + ">");if (browserVer) { document.write("<div
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Font</div></div><div class=MEntry><div class=MFile>Tiny
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id=MGroupContent3><div class=MEntry><div class=MIndex>Constants</div></div><div class=MEntry><div class=MIndex>Everything</div></div><div class=MEntry><div class=MIndex>Files</div></div><div class=MEntry><div class=MIndex>Functions</div></div><div class=MEntry><div class=MIndex>Macros</div></div><div class=MEntry><div class=MIndex>Types</div></div></div></div></div><script type="text/javascript"><!--
var searchPanel = new SearchPanel("searchPanel", "HTML", " ../search");
--></script><div id=MSearchPanel class=MSearchPanelInactive><input type=text id=MSearchField value=Search
onFocus="searchPanel.OnSearchFieldFocus(true)" onBlur="searchPanel.OnSearchFieldFocus(false)"
onKeyUp="searchPanel.OnSearchFieldChange()"><select id=MSearchType
onFocus="searchPanel.OnSearchTypeFocus(true)" onBlur="searchPanel.OnSearchTypeFocus(false)"
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value="General">Everything</option><option value="Constants">Constants</option><option
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value="Macros">Macros</option><option value="Types">Types</option></select></div><script
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<!--END_ND_TOOLTIPS-->

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```

```

<script language=JavaScript><!--
if (browserType) {if (browserVer) {document.write("</div>"); }document.write("</div>");} // --
></script></body></html>

```



# 1.291 curl 7.35.0-1ubuntu2.20

## 1.291.1 Available under license :

License Mixing with apps, libcurl and Third Party Libraries

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl <http://curl.haxx.se/docs/copyright.html>

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL <http://www.openssl.org/source/license.html>

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS <http://www.gnutls.org/>

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.



yassl <http://www.yassl.com/>

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS <http://www.mozilla.org/projects/security/pki/nss/>

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axTLS <http://axtls.sourceforge.net/>

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

c-ares <http://daniel.haxx.se/projects/c-ares/license.html>

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

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

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos <http://web.mit.edu/kerberos/www/dist/>

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal <http://www.pdc.kth.se/heimdal/>

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GNU GSS <http://www.gnu.org/software/gss/>



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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn <http://josefsson.org/libidn/>

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP <http://www.openldap.org/software/release/license.html>

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 <http://www.libssh2.org/>

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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## 1.292.1 Available under license :

This license applies to all source files within the AppArmor parser package.

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diff -c -r bsd_indent/Makefile pg_bsd_indent/Makefile
*** bsd_indent/Makefile Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/Makefile Wed Oct 12 12:17:12 2011

*** 2,10 ****
Makefile
#
#
! TARGET = indent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -g
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
--- 2,10 ----
Makefile
#
#
! TARGET = pg_bsd_indent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -O
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o

*** 31,37 ****
clean:
rm -f *.o $(TARGET) log core

! install:
! make clean

```



```

! make CFLAGS=-O
install -s -o bin -g bin $(TARGET) /usr/local/bin
--- 31,35 ----
clean:
rm -f *.o $(TARGET) log core

! install: $(TARGET)
install -s -o bin -g bin $(TARGET) /usr/local/bin
diff -c -r bsd_indent/README pg_bsd_indent/README
*** bsd_indent/README Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/README Mon Nov 14 19:30:24 2005

*** 1,3 ****
--- 1,13 ----
+
+ This patch is from NetBSD current, 2005-11-14. It contains all the
+ patches need for its use in PostgreSQL.
+
+ bjm
+
+ -----
+
+
+
+ This is the C indenter, it originally came from the University of Illinois
+ via some distribution tape for PDP-11 Unix. It has subsequently been
+ hacked upon by James Gosling @ CMU. It isn't very pretty, and really needs
diff -c -r bsd_indent/args.c pg_bsd_indent/args.c
*** bsd_indent/args.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/args.c Wed Oct 26 17:16:56 2011

*** 83,88 ****
--- 83,90 ----
#include <string.h>
#include "indent_globs.h"

+ #define INDENT_PG_VERSION "1.1"
+
+ /* profile types */
+ #define PRO_SPECIAL 1 /* special case */
+ #define PRO_BOOL 2 /* boolean */
+ *****
+ *** 99,106 ****
--- 101,113 ----
+ #define STDIN 3 /* use stdin */
+ #define KEY 4 /* type (keyword) */

+ #define KEY_FILE 5 /* only used for args */

```



```

+ #define VERSION 6 /* only used for args */
+
+ char *option_source = "?";
+
+ void add_typedefs_from_file(char *str);
+
+ /*
+ * N.B.: because of the way the table here is scanned, options whose names are
+ * substrings of other options must occur later; that is, with -lp vs -l, -lp
+ ****
+ *** 118,123 ****
+ --- 125,136 ----
+ "T", PRO_SPECIAL, 0, KEY, 0
+ },
+ {
+ + "U", PRO_SPECIAL, 0, KEY_FILE, 0
+ + },
+ + {
+ + "V", PRO_SPECIAL, 0, VERSION, 0
+ + },
+ + {
+ "bacc", PRO_BOOL, false, ON, &blanklines_around_conditional_compilation
+ },
+ {
+ ****
+ *** 425,430 ****
+ --- 438,456 ----
+ }
+ break;
+
+ case KEY_FILE:
+ if (*param_start == 0)
+ goto need_param;
+ add_typedefs_from_file(param_start);
+ break;
+
+ case VERSION:
+ {
+ printf("pg_bsd_indent %s\n", INDENT_PG_VERSION);
+ exit(0);
+ }
+ break;
+
+ default:
+ fprintf(stderr, "\
+ indent: set_option: internal error: p_special %d\n", p->p_special);
+ ****
+ *** 459,461 ****

```



```

--- 485,508 ----
 exit(1);
}
}
+
+
+ void
+ add_typedefs_from_file(char *str)
+ {
+ FILE *file;
+ char line[BUFSIZ];
+
+ if ((file = fopen(param_start, "r")) == NULL)
+ {
+ fprintf(stderr, "indent: cannot open file %s\n", str);
+ exit(1);
+ }
+ while ((fgets(line, BUFSIZ, file)) != NULL)
+ {
+ /* Remove trailing whitespace */
+ *(line + strcspn(line, "\t\n\r")) = '\0';
+ addkey(strdup(line), 4);
+ }
+ fclose(file);
+ }
Only in pg_bsd_indent: args.o
Only in pg_bsd_indent: indent.bsd.patch
Only in pg_bsd_indent: indent.o
diff -c -r bsd_indent/indent_globs.h pg_bsd_indent/indent_globs.h
*** bsd_indent/indent_globs.h Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/indent_globs.h Mon Nov 14 19:30:24 2005

*** 239,245 ****
 scomf, /* Same line comment font */
 bodyf; /* major body font */

! #define STACK_SIZE 150

EXTERN struct parser_state {
 int last_token;
--- 239,249 ----
 scomf, /* Same line comment font */
 bodyf; /* major body font */

! /*
! * This controls the maximum number of 'else if' clauses supported.
! * If it is exceeded, comments are placed in column 100.
! */

```



```

! #define STACK_SIZE 1000

EXTERN struct parser_state {
 int last_token;
Only in pg_bsd_indent: io.o
diff -c -r bsd_indent/lexi.c pg_bsd_indent/lexi.c
*** bsd_indent/lexi.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/lexi.c Mon Nov 14 19:30:24 2005

*** 93,99 ****
 int rwcode;
};

! struct templ specials[1000] =
{
 {"switch", 1},
 {"case", 2},
--- 93,99 ----
 int rwcode;
};

! struct templ specials[16384] =
{
 {"switch", 1},
 {"case", 2},

*** 622,629 ****
 else
 p++;
 if (p >= specials + sizeof specials / sizeof specials[0])
! return; /* For now, table overflows are silently
! * ignored */
 p->rawd = key;
 p->rwcode = val;
 p[1].rawd = 0;
--- 622,632 ----
 else
 p++;
 if (p >= specials + sizeof specials / sizeof specials[0])
! {
! fprintf(stderr, "indent: typedef table overflow\n");
! exit(1);
! }
!
 p->rawd = key;
 p->rwcode = val;
 p[1].rawd = 0;
Only in pg_bsd_indent: lexi.o

```



```

diff -c -r bsd_indent/parse.c pg_bsd_indent/parse.c
*** bsd_indent/parse.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/parse.c Mon Nov 14 19:30:24 2005

*** 231,236 ***
--- 231,241 ----

 } /* end of switch */

+ if (ps.tos >= STACK_SIZE) {
+ fprintf(stderr, "indent: stack size overflow\n");
+ exit(1);
+ }
+
+ reduce(); /* see if any reduction can be done */

#ifdef debug
Only in pg_bsd_indent: parse.o
diff -c -r bsd_indent/pr_comment.c pg_bsd_indent/pr_comment.c
*** bsd_indent/pr_comment.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/pr_comment.c Mon Nov 14 19:30:24 2005

*** 148,154 ***
 ps.box_com = true;
 ps.com_col = 1;
} else {
! if (*buf_ptr == '-' || *buf_ptr == '*' || *buf_ptr == '\n') {
 ps.box_com = true; /* a comment with a '-', '*'
 * or newline immediately
 * after the start comment is
--- 148,158 ----
 ps.box_com = true;
 ps.com_col = 1;
} else {
! /*
! * Don't process '\n' or every comment is treated as a
! * block comment, meaning there is no wrapping.
! */
! if (*buf_ptr == '-' || *buf_ptr == '*') {
 ps.box_com = true; /* a comment with a '-', '*'
 * or newline immediately
 * after the start comment is

*** 328,333 ***
--- 332,350 ----
 goto end_of_comment;
}
} while (*buf_ptr == ' ' || *buf_ptr == '\t');

```



```

+
+ /*
+ * If there is a blank comment line, we need to prefix
+ * the line with the same three spaces that "/* " takes up.
+ * Without this code, blank stared lines in comments have
+ * three too-many characters on the line when wrapped.
+ */
+ if (s_com == e_com) {
+ *e_com++ = ' '; /* add blanks for continuation */
+ *e_com++ = ' ';
+ *e_com++ = ' ';
+ now_col += 3;
+ }
+ } else
+ if (++buf_ptr >= buf_end)
+ fill_buffer();

```

Only in pg\_bsd\_indent: pr\_comment.o

```
<!-- doc/src/sgml/legal.sgml -->
```

```
<date>2018</date>
```

```
<copyright>
```

```
<year>1996-2018</year>
```

```
<holder>The PostgreSQL Global Development Group</holder>
```

```
</copyright>
```

```
<legalnotice id="legalnotice">
```

```
<title>Legal Notice</title>
```

```
<para>
```

<productname>PostgreSQL</productname> is Copyright &copy; 1996-2018  
by the PostgreSQL Global Development Group.

```
</para>
```

```
<para>
```

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</para>
```

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<para>
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```
</para>
```

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<para>
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</para>

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HREF="index.html"><LINK

REL="UP"

TITLE="libpq - C Library"

HREF="libpq.html"><LINK

REL="PREVIOUS"

TITLE="Miscellaneous Functions"

HREF="libpq-misc.html"><LINK

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HREF="libpq-events.html"><LINK

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>Chapter 31. <SPAN
CLASS="APPLICATION"
>libpq - C Library</TD
><TD

```



```

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HREF="libpq-events.html"
ACCESSKEY="N"
>Next</TD
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></TABLE
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WIDTH="100%"></DIV
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CLASS="SECT1"
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NAME="LIBPQ-NOTICE-PROCESSING"
>31.12. Notice Processing</H1
><P
> Notice and warning messages generated by the server are not returned
by the query execution functions, since they do not imply failure of
the query. Instead they are passed to a notice handling function, and
execution continues normally after the handler returns. The default
notice handling function prints the message on
<TT
CLASS="FILENAME"
>stderr</TT
>, but the application can override this
behavior by supplying its own handling function.
</P
><P
> For historical reasons, there are two levels of notice handling, called
the notice receiver and notice processor. The default behavior is for
the notice receiver to format the notice and pass a string to the notice
processor for printing. However, an application that chooses to provide
its own notice receiver will typically ignore the notice processor
layer and just do all the work in the notice receiver.
</P
><P
> The function <CODE
CLASS="FUNCTION"
>PQsetNoticeReceiver</CODE
>

```



```

 sets or
 examines the current notice receiver for a connection object.
 Similarly, <CODE
 CLASS="FUNCTION"
 >PQsetNoticeProcessor</CODE
 >

 sets or
 examines the current notice processor.

</P><PRE
 CLASS="SYNOPSIS"
 >typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);

 PQnoticeReceiver
 PQsetNoticeReceiver(PGconn *conn,
 PQnoticeReceiver proc,
 void *arg);

 typedef void (*PQnoticeProcessor) (void *arg, const char *message);

 PQnoticeProcessor
 PQsetNoticeProcessor(PGconn *conn,
 PQnoticeProcessor proc,
 void *arg);</PRE
 ><P>

```

Each of these functions returns the previous notice receiver or processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is returned.

```

</P>
><P>
> When a notice or warning message is received from the server, or
 generated internally by <SPAN
 CLASS="APPLICATION"
 >libpq, the notice
 receiver function is called. It is passed the message in the form of
 a <TT
 CLASS="SYMBOL"
 >PGRES_NONFATAL_ERROR</TT
 >
 <TT
 CLASS="STRUCTNAME"
 >PGresult</TT
 >. (This allows the receiver to extract
 individual fields using <CODE

```



```

CLASS="FUNCTION"
>PQresultErrorField</CODE
>, or the complete
 preformatted message using <CODE
CLASS="FUNCTION"
>PQresultErrorMessage</CODE
>.) The same
 void pointer passed to <CODE
CLASS="FUNCTION"
>PQsetNoticeReceiver</CODE
> is also
 passed. (This pointer can be used to access application-specific state
 if needed.)
</P
><P
> The default notice receiver simply extracts the message (using
 <CODE
CLASS="FUNCTION"
>PQresultErrorMessage</CODE
>) and passes it to the notice
 processor.
</P
><P
> The notice processor is responsible for handling a notice or warning
 message given in text form. It is passed the string text of the message
 (including a trailing newline), plus a void pointer that is the same
 one passed to <CODE
CLASS="FUNCTION"
>PQsetNoticeProcessor</CODE
>. (This pointer
 can be used to access application-specific state if needed.)
</P
><P
> The default notice processor is simply:
</P><PRE
CLASS="PROGRAMLISTING"
>static void
defaultNoticeProcessor(void *arg, const char *message)
{
 fprintf(stderr, "%s", message);
}</PRE
><P>
</P
><P
> Once you have set a notice receiver or processor, you should expect
 that that function could be called as long as either the
 <TT
CLASS="STRUCTNAME"

```



```

>PGconn</TT
> object or <TT
CLASS="STRUCTNAME"
>PGresult</TT
> objects made
 from it exist. At creation of a <TT
CLASS="STRUCTNAME"
>PGresult</TT
>, the
 <TT
CLASS="STRUCTNAME"
>PGconn</TT
>'s current notice handling pointers are copied
 into the <TT
CLASS="STRUCTNAME"
>PGresult</TT
> for possible use by functions like
 <CODE
CLASS="FUNCTION"
>PQgetvalue</CODE
>.
 </P
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```



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ACCESSKEY="U"
>Up</A
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<TD
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VALIGN="top"
>Event System</TD
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</HTML
>

```

## 1.297 selinux 2.2.2-1ubuntu0.1

### 1.297.1 Available under license :

```

/*
 * avcstat - Display SELinux avc statistics.
 *

```



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\*

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\*

\*/

#include <stdio.h>

#include <stdlib.h>

#include <libgen.h>

#include <stdarg.h>

#include <errno.h>

#include <string.h>

#include <fcntl.h>

#include <unistd.h>

#include <signal.h>

#include <sys/types.h>

#include <sys/stat.h>

#include <sys/ioctl.h>

#include <linux/limits.h>

#define DEF\_STAT\_FILE "/avc/cache\_stats"

#define DEF\_BUF\_SIZE 8192

#define HEADERS "lookups hits misses allocations reclaims frees"

struct avc\_cache\_stats {

unsigned long long lookups;

unsigned long long hits;

unsigned long long misses;

unsigned long long allocations;

unsigned long long reclaims;

unsigned long long frees;

};

static int interval;

static int rows;

static char \*progrname;

static char buf[DEF\_BUF\_SIZE];

/\* selinuxfs mount point \*/

extern char \*selinux\_mnt;

static \_\_attribute\_\_((\_\_format\_\_(printf,1,2))) void die(const char \*msg, ...)

{

va\_list args;

fputs("ERROR: ", stderr);



```

va_start(args, msg);
vfprintf(stderr, msg, args);
va_end(args);

if (errno)
 fprintf(stderr, ": %s", strerror(errno));

fputc('\n', stderr);
exit(1);
}

static void usage(void)
{
 printf("\nUsage: %s [-c] [-f status_file] [interval]\n\n", progname);
 printf
 ("Display SELinux AVC statistics. If the interval parameter is specified, the\n");
 printf
 ("program will loop, displaying updated statistics every 'interval' seconds.\n");
 printf
 ("Relative values are displayed by default. Use the -c option to specify the\n");
 printf
 ("display of cumulative values. The -f option specifies the location of the\n");
 printf("AVC statistics file, defaulting to '%s%s'.\n\n", selinux_mnt,
 DEF_STAT_FILE);
}

static void set_window_rows(void)
{
 int ret;
 struct winsize ws;

 ret = ioctl(fileno(stdout), TIOCGWINSZ, &ws);
 if (ret < 0 || ws.ws_row < 3)
 ws.ws_row = 24;
 rows = ws.ws_row;
}

static void sighandler(int num)
{
 if (num == SIGWINCH)
 set_window_rows();
}

int main(int argc, char **argv)
{
 struct avc_cache_stats tot, rel, last;
 int fd, i, cumulative = 0;
 struct sigaction sa;

```



```

char avcstatfile[PATH_MAX];
snprintf(avcstatfile, sizeof avcstatfile, "%s%s", selinux_mnt,
 DEF_STAT_FILE);
progname = basename(argv[0]);

memset(&last, 0, sizeof(last));

while ((i = getopt(argc, argv, "cf:h?-")) != -1) {
 switch (i) {
 case 'c':
 cumulative = 1;
 break;
 case 'f':
 strncpy(avcstatfile, optarg, sizeof avcstatfile);
 break;
 case 'h':
 case '-':
 usage();
 exit(0);
 default:
 usage();
 die("unrecognized parameter '%c'", i);
 }
}

if (optind < argc) {
 char *arg = argv[optind];
 unsigned int n = strtoul(arg, NULL, 10);

 if (errno == ERANGE) {
 usage();
 die("invalid interval '%s'", arg);
 }
 if (n == 0) {
 usage();
 exit(0);
 }
 interval = n;
}

sa.sa_handler = sighandler;
sa.sa_flags = SA_RESTART;
sigemptyset(&sa.sa_mask);

i = sigaction(SIGWINCH, &sa, NULL);
if (i < 0)
 die("sigaction");

```



```

set_window_rows();
fd = open(avcstatfile, O_RDONLY);
if (fd < 0)
 die("open: '%s'", avcstatfile);

for (i = 0;; i++) {
 char *line;
 ssize_t ret, parsed = 0;

 memset(buf, 0, DEF_BUF_SIZE);
 ret = read(fd, buf, DEF_BUF_SIZE-1);
 if (ret < 0)
 die("read");

 if (ret == 0)
 die("read: '%s': unexpected end of file",
 avcstatfile);

 line = strtok(buf, "\n");
 if (!line)
 die("unable to parse '%s': end of line not found",
 avcstatfile);

 if (strcmp(line, HEADERS))
 die("unable to parse '%s': invalid headers",
 avcstatfile);

 if (!i || !(i % (rows - 2)))
 printf("%10s %10s %10s %10s %10s %10s\n", "lookups",
 "hits", "misses", "allocs", "reclaims", "frees");

 memset(&tot, 0, sizeof(tot));

 while ((line = strtok(NULL, "\n"))) {
 struct avc_cache_stats tmp;

 ret = sscanf(line, "%llu %llu %llu %llu %llu %llu",
 &tmp.lookups,
 &tmp.hits,
 &tmp.misses,
 &tmp.allocations,
 &tmp.reclaims, &tmp.frees);
 if (ret != 6)
 die("unable to parse '%s': scan error",
 avcstatfile);

 tot.lookups += tmp.lookups;
 tot.hits += tmp.hits;
 }
}

```



```

tot.misses += tmp.misses;
tot.allocations += tmp.allocations;
tot.reclaims += tmp.reclaims;
tot.frees += tmp.frees;
parsed = 1;
}

if (!parsed)
 die("unable to parse '%s': no data", avcstatfile);

if (cumulative || (!cumulative && !i))
 printf("%10Lu %10Lu %10Lu %10Lu %10Lu %10Lu\n",
 tot.lookups, tot.hits, tot.misses,
 tot.allocations, tot.reclaims, tot.frees);
else {
 rel.lookups = tot.lookups - last.lookups;
 rel.hits = tot.hits - last.hits;
 rel.misses = tot.misses - last.misses;
 rel.allocations = tot.allocations - last.allocations;
 rel.reclaims = tot.reclaims - last.reclaims;
 rel.frees = tot.frees - last.frees;
 printf("%10Lu %10Lu %10Lu %10Lu %10Lu %10Lu\n",
 rel.lookups, rel.hits, rel.misses,
 rel.allocations, rel.reclaims, rel.frees);
}

if (!interval)
 break;

memcpy(&last, &tot, sizeof(last));
sleep(interval);

ret = lseek(fd, 0, 0);
if (ret < 0)
 die("lseek");
}

close(fd);
return 0;
}

```

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-----

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## 1.298 systemd 240.95

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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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes



2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
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Mersenne Twister

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The `\_random` module includes code based on a download from  
`http://www.math.keio.ac.jp/~matumoto/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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## Sockets

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The ``socket'` module uses the functions, ``getaddrinfo'`, and ``getnameinfo'`, which are coded in separate source files from the WIDE Project, ``http://www.wide.ad.jp/about/index.html'`.

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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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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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Mersenne Twister

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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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Floating point exception control

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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

XML Remote Procedure Calls

-----

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Select kqueue

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SipHash24

-----

The file `:file:`Python/pyhash.c`` contains Marek Majkowski's implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves (supercop/crypto\_auth/siphhash24/little)

djb (supercop/crypto\_auth/siphhash24/little2)

Jean-Philippe Aumasson (<https://131002.net/siphhash/siphhash24.c>)

strtod and dtoa

-----

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash

-----

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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.

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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
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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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kdc/announce.c

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DES core in libcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.



Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.  
Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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lib/hcrypto/test\_dh.c

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SQUID Internet Object Cache <http://www.squid-cache.org>

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```

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```
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```

```
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## 1.321 p11-kit 0.20.2 2ubuntu2

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```
<program> Copyright (C) <year> <name of author>
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under certain conditions; type `show c' for details.
```

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# 1.328 tidy 20091223cvs-1.2ubuntu1.1

## 1.328.1 Available under license :

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```
tidy-mark: no
output-xml: yes
drop-proprietary-attributes: no
new-inline-tags: o:lock, o:p, v-f, v-formula, v-formulas,
 v-imagedata, v-path, v-shape, v-shapetype, v-stroke
new-empty-tags:
new-blocklevel-tags:
new-pre-tags:
```



wrap-sections: no  
drop-empty-paras: no

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/test/input/cfg\_634889.txt

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/\* @file tidyenum.h -- Split public enums into separate header

Simplifies enum re-use in various wrappers. e.g. SWIG  
generated wrappers and COM IDL files.

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CVS Info :

\$Author: arnaud02 \$  
\$Date: 2008/06/18 20:18:54 \$  
\$Revision: 1.18 \$

Contributing Author(s):

Dave Raggett <dsr@w3.org>

The contributing author(s) would like to thank all those who  
helped with testing, bug fixes and suggestions for improvements.  
This wouldn't have been possible without your help.

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Created 2001-05-20 by Charles Reitzel

Updated 2002-07-01 by Charles Reitzel - 1st Implementation

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/include/tidyenum.h

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wrap: 68

tab-size: 4

repeated-attributes: keep-last

alt-text: None, says tidy

show-warnings: no

quiet: yes

indent: auto

indent-attributes: yes

output-xml: yes

output-xhtml: yes

add-xml-decl: yes

bare: yes

logical-emphasis: yes

drop-proprietary-attributes: yes

break-before-br: yes

quote-nbsp: no

assume-xml-procins: yes

keep-time: no

word-2000: yes

tidy-mark: no

literal-attributes: yes

hide-comments: yes



ascii-chars: no  
join-styles: no  
output-bom: no

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/test/input/cfg\_1067112.txt

\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/test/input/cfg\_586555.txt

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```
/* If the document uses just HTML 2.0 tags and attributes described
** it as HTML 2.0 Similarly for HTML 3.2 and the 3 flavors of HTML 4.0.
** If there are proprietary tags and attributes then describe it as
** HTML Proprietary. If it includes the xml-lang or xmlns attributes
** but is otherwise HTML 2.0, 3.2 or 4.0 then describe it as one of the
** flavors of Voyager (strict, loose or frameset).
*/
/* proprietary stuff */
/* all proprietary types */
/* everything is allowed in proprietary version of HTML */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/src/lexer.h

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\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/configure.in

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```
<title>[#427810] Proprietary elements not reported as err</title>
<blink>Proprietary inline element (blink)</blink>
<wbr>Proprietary inline element (wbr) - note starts on new line, doesn't need end tag
<nobr>Proprietary inline element (nobr)</nobr>
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/test/input/in\_427810.html

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\fBTidy\fR was written by Dave Raggett &lt;\fIdsr@w3.org\fR>, and is now maintained and developed by the Tidy team at \fI<http://tidy.sourceforge.net>\fR. It is released under the \fIMIT Licence\fR.

Found in path(s):



\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/htmldoc/tidy1.xsl

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```
{ PROPRIETARY_ATTRIBUTE, "%s proprietary attribute \"%s\"" }, /* Error */
{ PROPRIETARY_ATTR_VALUE, "%s proprietary attribute value \"%s\"" }, /* Error */
"This option specifies if Tidy should strip out proprietary attributes, "
tidy_out(doc, "is recommended in preference to the proprietary <LAYER>\n");
tidy_out(doc, "The proprietary <SPACER> element has limited vendor support.\n\n");
vers = "HTML Proprietary";
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/src/localize.c

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/\* proprietary elements \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/src/tags.c

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indent: auto

indent-attributes: yes

tidy-mark: no

clean: yes

drop-font-tags: yes

drop-proprietary-attributes: no

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/test/input/cfg\_695408.txt

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```
{ TidyDropPropAttrs, MU, "drop-proprietary-attributes", BL, no, ParseBool, boolPicks },
```



Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/src/config.c

No license file was found, but licenses were detected in source scan.

/\* known proprietary attributes that make the element significant \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/src/parser.c

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wrap: 68

tab-size: 4

repeated-attributes: keep-last

alt-text: None, says tidy

show-warnings: no

indent: auto

indent-attributes: yes

output-xml: yes

output-xhtml: yes

add-xml-decl: yes

bare: yes

logical-emphasis: yes

drop-proprietary-attributes: yes

break-before-br: yes

quote-nbsp: no

assume-xml-procins: yes

keep-time: no

word-2000: yes

tidy-mark: no

literal-attributes: yes

hide-comments: yes

ascii-chars: no

join-styles: no

output-bom: no

drop-empty-paras: no

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/test/input/cfg\_1359292.txt

No license file was found, but licenses were detected in source scan.

/\*

tidy.c - HTML TidyLib command line driver

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CVS Info :

\$Author: arnaud02 \$  
\$Date: 2008/03/22 20:53:08 \$  
\$Revision: 1.50 \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/console/tidy.c

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<li><b>Unknown/Proprietary attributes are reported</b>  
<li><b>Proprietary elements are recognized and reported as

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/html/doc/Overview.html

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/\* ignore unknown attributes for proprietary elements \*/  
/\*\*

\* Attribute sorting contributed by Adrian Wilkins, 2007

\*

\* Portions copyright Simon Tatham 2001.

\*

\* Merge sort algorithm adapted from listsort.c linked from

\* <http://www.chiark.greenend.org.uk/~sgtatham/algorithms/listsort.html>

\*

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\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-  
20091223cvs/src/attrs.c

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/\* everything is allowed in proprietary version of HTML \*/

/\*

if (!name)

name = "HTML Proprietary";

\*/

/\* Do not warn if emitted doctype is proprietary \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-  
20091223cvs/src/lexer.c

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/\*\* @file tidy.h - Defines HTML Tidy API implemented by tidy library.

Public interface is const-correct and doesn't explicitly depend  
on any globals. Thus, thread-safety may be introduced w/out  
changing the interface.

Looking ahead to a C++ wrapper, C functions always pass  
this-equivalent as 1st arg.

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CVS Info :

\$Author: arnaud02 \$

\$Date: 2008/04/22 11:00:42 \$

\$Revision: 1.22 \$

Contributing Author(s):



Dave Raggett <dsr@w3.org>

The contributing author(s) would like to thank all those who helped with testing, bug fixes and suggestions for improvements. This wouldn't have been possible without your help.

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Created 2001-05-20 by Charles Reitzel

Updated 2002-07-01 by Charles Reitzel - 1st Implementation

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/include/tidy.h

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<TITLE>[ #473490 ] DOCTYPE for Proprietary HTML to XHTML bad</TITLE>

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/test/input/in\_473490.html

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proprietary tags such as server, ilayer, layer, nlayer and  
servlet. I have added it as a proprietary tag and parse it in the  
add a link to a style sheet or to assert attribution. This sounds

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068483692\_1594414038.94/0/tidy-20091223cvs-orig-1-tar-gz/tidy-20091223cvs/htmldoc/release-notes.html

# 1.329 keepalived 1.2.7-1ubuntu1

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Jan Holmberg, <jan@artech.net> :

- o Memory framework
- o HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au> :

- o MISC checker redesign
- o Scheduler framework extension to support child process handling.
- o Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu> :

- o Added SMTP checker

Chris Caputo, <ccaputo@alt.net> :

- o Added dont\_track\_primary, nopreempt, preempt\_delay, and misc\_dynamic.

Kevin Lindsay, <kevinl@netnation.com> :

- o Fixed shadowed declaration reported by -Wshadow.
- o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com> :

- o Patch for u\_threshold and l\_threshold support.



Willy Tarreau, <w at 1wt.eu> :

- o Extended VRRP framework to support floating priority.

# 1.330 dmidecode 2.12-2

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## 1.342 bridgeutils 1.5-6ubuntu2

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## 1.345 libnss-mdns 0.10-6

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# 1.346 gzip 1.6-3ubuntu1

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with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.

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@end smallexample

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

## 1.347 pango 1.36.3-1ubuntu1.1



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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd



- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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The original XML Schemas for Java EE Deployment Descriptors:

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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd

may be obtained from <http://java.sun.com/xml/ns/javaee/>

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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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- javaee\_web\_services\_client\_1\_2.xsd
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### 1.350.1 Available under license :

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>  
Upstream-Name: Module-Pluggable  
Source: <https://metacpan.org/release/Module-Pluggable>  
Upstream-Contact: Simon Wistow <[simon@thegestalt.org](mailto:simon@thegestalt.org)>

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Format: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=173>

Upstream-Name: vixie-cron

Ustream-Contact: Paul Vixie <paul@vix.com>

Source:

The original source for this package could be obtained from <ftp://ftp.vix.com/pub/vixie/cron-3.0>, although that link appears to have gone down.

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## 1.353 aspell 0.60.7~20110707-1ubuntu1

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```
</pre>
<p>
 </p>
</div>
<div class="footer">
<hr>
 Generated by GTK-Doc V1.19.1</div>
</body>
</html>
```

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hostname -- set the host name or show the host/domain name

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## 1.361.1 Available under license :

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html><head>
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<title>SQLite Copyright</title>
<style type="text/css">
```



```

body {
 margin: auto;
 font-family: Verdana, sans-serif;
 padding: 8px 1%;
}

a { color: #044a64 }
a:visited { color: #734559 }

.logo { position:absolute; margin:3px; }
.tagline {
 float:right;
 text-align:right;
 font-style:italic;
 width:300px;
 margin:12px;
 margin-top:58px;
}

.menubar {
 clear: both;
 border-radius: 8px;
 background: #044a64;
 padding: 0px;
 margin: 0px;
 cell-spacing: 0px;
}

.toolbar {
 text-align: center;
 line-height: 1.6em;
 margin: 0;
 padding: 0px 8px;
}

.toolbar a { color: white; text-decoration: none; padding: 6px 12px; }
.toolbar a:visited { color: white; }
.toolbar a:hover { color: #044a64; background: white; }

.content { margin: 5%; }
.content dt { font-weight:bold; }
.content dd { margin-bottom: 25px; margin-left:20%; }
.content ul { padding:0px; padding-left: 15px; margin:0px; }

/* Things for "fancyformat" documents start here. */
.fancy img+p { font-style:italic }
.fancy .codeblock i { color: darkblue; }
.fancy h1,.fancy h2,.fancy h3,.fancy h4 { font-weight:normal;color:#044a64 }
.fancy h2 { margin-left: 10px }
.fancy h3 { margin-left: 20px }

```



```
.fancy h4 { margin-left: 30px }
.fancy th { white-space:nowrap;text-align:left;border-bottom:solid 1px #444}
.fancy th, .fancy td {padding: 0.2em 1ex; vertical-align:top}
.fancy #toc a { color: darkblue ; text-decoration: none }
.fancy .todo { color: #AA3333 ; font-style : italic }
.fancy .todo:before { content: 'TODO:' }
.fancy p.todo { border: solid #AA3333 1px; padding: 1ex }
.fancy img { display:block; }
.fancy :link:hover, .fancy :visited:hover { background: wheat }
.fancy p,.fancy ul,.fancy ol { margin: 1em 5ex }
.fancy li p { margin: 1em 0 }
/* End of "fancyformat" specific rules. */
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div><!-- container div to satisfy validator -->
```

```

```

```

```

```
<div><!-- IE hack to prevent disappearing logo--></div>
```

```
<div class="tagline">Small. Fast. Reliable.
Choose any three.</div>
```

```
<table width=100% class="menubar"><tr>
```

```
<td width=100%>
```

```
<div class="toolbar">
```

```
About
```

```
Sitemap
```

```
Documentation
```

```
Download
```

```
License
```

```
News
```

```
Support
```

```
</div>
```

```
<script>
```

```
gMsg = "Search SQLite Docs..."
```

```
function entersearch() {
```

```
 var q = document.getElementById("q");
```

```
 if(q.value == gMsg) { q.value = "" }
```

```
 q.style.color = "black"
```

```
 q.style.fontStyle = "normal"
```

```
}
```

```
function leavesearch() {
```

```
 var q = document.getElementById("q");
```

```
 if(q.value == "") {
```

```
 q.value = gMsg
```



```

 q.style.color = "#044a64"
 q.style.fontStyle = "italic"
 }
}
</script>
<td>
 <div style="padding:0 1em 0px 0;white-space:nowrap">
 <form name=f method="GET" action="http://www.sqlite.org/search">
 <input id=q name=q type=text
 onfocus="entersearch()" onblur="leavesearch()" style="width:24ex;padding:1px 1ex; border:solid white 1px;
font-size:0.9em ; font-style:italic;color:#044a64;" value="Search SQLite Docs...">
 <input type=submit value="Go" style="border:solid white 1px;background-color:#044a64;color:white;font-
size:0.9em;padding:0 1ex">
 </form>
 </div>
</td>

<div class=startsearch></div>

```

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```

<table align="right" vspace="0" hspace="10" border="1" cellpadding="20">
<tr><td align="center">

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</td></tr>
</table>

```

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<body bgcolor="white">

<h1 align="center">

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<p>

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Date:

</td></tr>

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Name (printed):

</td>



```
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</html>
```

# 1.362 smartmontools 6.2+svn3841-

## 1.2ubuntu0.1

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```
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 */
```

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```
/*

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* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*
* md5.c: NCSA HTTPd code which uses the md5c.c RSA Code
*
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```
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install - install a program, script, or datafile
This comes from X11R5 (mit/util/scripts/install.sh).
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```

For the test/zb.c component:



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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

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For the expat xml parser component:

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<script type="text/javascript"><!--><![CDATA[</script>

var comments\_shortcode = 'httpd';

var comments\_identifier = 'http://httpd.apache.org/docs/2.4/license.html';

(function(w, d) {

if (w.location.hostname.toLowerCase() == "httpd.apache.org") {

d.write('<div id="comments\_thread"></div>');

var s = d.createElement('script');

s.type = 'text/javascript';

s.async = true;

s.src = 'https://comments.apache.org/show\_comments.lua?site=' + comments\_shortcode + '&page=' +

comments\_identifier;

(d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);

}

else {

d.write('<div id="comments\_thread">Comments are disabled for this page at the moment.</div>');

}

})(window, document);

</script></div><div id="footer">

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```
href="http://wiki.apache.org/httpd/FAQ">FAQ | Glossary | Sitemap</p></div><script type="text/javascript"><!--><![CDATA[<!--><!--
if (typeof(prettyPrint) !== 'undefined') {
 prettyPrint();
}
//--><![></script>
</body></html>
```

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<signature of Ty Coon>, 1 April 1989

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Manoj Srivastava <srivasta@debian.org>

arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

## 1.373 mhash 0.9.9.9

### 1.373.1 Available under license :

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Version 2, June 1991

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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- \* configure.ac, Makefile.am: The original versions were derived from the



ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io\_test.cpp: These files were derived from the file\_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

```
=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
```

```
<!--
```

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```
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```

```
-->
```

```
<!-- Id -->
```

```
<!-- Generate ISC copyright comments from Docbook copyright metadata. -->
```

```
<xsl:stylesheet version="1.0"
```

```
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
```

```
xmlns:xi="http://www.w3.org/2001/XInclude"
```

```
xmlns:db="http://docbook.org/ns/docbook">
```

```
<xsl:template name="isc.copyright.format">
```

```
<xsl:param name="text"/>
```

```
<xsl:value-of select="$isc.copyright.leader"/>
```

```
<xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
```



```

<xsl:text>
</xsl:text>
<xsl:variable name="rest" select="substring-after($text, '
')"/>
<xsl:if test="translate($rest, '	 ', '')">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text" select="$rest"/>
 </xsl:call-template>
</xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
 <xsl:text>
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 </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text">
 <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
 <xsl:text>Copyright (C) </xsl:text>
 <xsl:call-template name="copyright.years">
 <xsl:with-param name="years" select="year"/>
 </xsl:call-template>
 <xsl:text> </xsl:text>
 <xsl:value-of select="holder"/>
 <xsl:value-of select="$isc.copyright.breakline"/>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
 </xsl:with-param>
 </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:
- mode: sgml
- End:

-->

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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

\* see init\_nicstar() for PHY initialization to change this. This driver

\* expects the Linux ATM stack to support scatter-gather lists

\* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

\*

\* Implementing minimal-copy of received data:

\* IDT always receives data into a small buffer, then large buffers

\* as needed. This means that data must always be copied to create

\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

\* Fix is simple: make large buffers large enough to hold entire

\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then

\* copy small buffer contents to head of large buffer.

\* Trick is to avoid fragmenting Linux, due to need for a lot of large

\* buffers. This is done by 2 things:

\* 1) skb->destructor / skb->atm.recycle\_buffer

\* combined, allow nicstar\_free\_rx\_skb to be called to

\* recycle large data buffers

\* 2) skb\_clone of received buffers

\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation

\* details.

\*

\*

\*

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- \*
- \* M. Welsh, 6 July 1996
- \*
- \*
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## 1.377 xen 4.4.2-0ubuntu0.14.04.14



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Author: Julio Merino <jmmv@users.sourceforge.net>

\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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\* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io\_test.cpp: These files were derived from the file\_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2



# 1.384 pcsc-lite 1.8.10-1ubuntu1.1

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```
<one line to give the program's name and a brief idea of what it does.>
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```

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```
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```

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## 1.391 nut 2.7.1-1ubuntu1.2

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Version 3, 29 June 2007

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-----

Discussion thread from mailing list archive, with approval from everyone actively  
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[Cracklib-devel] cracklib license  
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML  
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
r=20  
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
=2Dmike

Re: [Cracklib-devel] cracklib license



From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly

> and see if he wants to relicense his code as LGPL... but at this point,

> it was enough to just get it consistent and documented as to what it was

> released under. This wasn't actually a license change, just a

> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20

GPL-2 ... it was a modified artistic license ... i didnt notice the license=

=20

change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=

eir=20

applications are also GPL-2 which imo is just wrong. it isnt the place of =

a=20



library to dictact to application writes what license they should be using.=  
=20  
thus LGPL-2.1 enters to fill this void.  
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec

> directly

> > and see if he wants to relicense his code as LGPL... but at this

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>=20

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> GPL-2 ... it was a modified artistic license ... i didnt notice the

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>=20

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> unless their



> applications are also GPL-2 which imo is just wrong. it isnt the  
> place of a  
> library to dictact to application writes what license they should  
> be using.  
> thus LGPL-2.1 enters to fill this void.  
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a  
> decision as to what licensing scheme y'all want. I haven't really done  
> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be  
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's  
best interests to have as secure systems as possible, and I think tainting  
it via GPL will just make it less likely that the library gets used, and  
will not usually cause companies/developers to GPL the dependent code  
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct  
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

> > Seems like the ideal thing here would be for you and the other distro  
> > maintainers to get together with Alec in a conversation and come to a  
> > decision as to what licensing scheme y'all want. I haven't really done



>> much other than cleaning up the packaging and patches and a small  
>> bit of  
>> additional code, so whatever licensing y'all come up with is fine  
>> by me.  
>  
> I am sympathetic. Guys, what do you reckon?  
>  
> What I am hearing so far is that LGPL makes sense, since it can be  
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable  
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,  
GPLv2 with the option of using the library under a later version of the  
GPL would permit applications which were released under version 3 of the  
GPL to use the library, too, which would be sufficient for the packages  
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:  
>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a  
>>> decision as to what licensing scheme y'all want. I haven't really done  
>>> much other than cleaning up the packaging and patches and a small  
>>> bit of  
>>> additional code, so whatever licensing y'all come up with is fine  
>>> by me.  
>>  
>> I am sympathetic. Guys, what do you reckon?  
>>  
>> What I am hearing so far is that LGPL makes sense, since it can be  
>> linked with any code, not just GPL...  
>  
> My apologies for not chiming in in anything resembling a reasonable  
> timeframe.  
>



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> GPLv2 with the option of using the library under a later version of the  
> GPL would permit applications which were released under version 3 of the  
> GPL to use the library, too, which would be sufficient for the packages  
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we  
> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-----  
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.  
-----

CrackLib was originally licensed with a variant of the Artistic license. In the  
interests of wider acceptance and more modern licensing, it was switched with



the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-----

From alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ips.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtp020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umn.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com



X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]

Status: RO

Content-Length: 585

Lines: 21

>

> ----- Forwarded message -----

> From: Neulinger, Nathan <nneul@umr.edu>

> Date: Sep 27, 2007 2:58 PM

> Subject: RE: cracklib license

> To: alecm@crypto.dircon.co.uk

>

> Any chance you could write me a self-contained email stating clearly

> that the license is being changed to GPL, so I could include that

> email

> in the repository and clean up the repository/tarballs? I have all the

> original discussion, but something succinct and self contained

> would be

> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

# 1.393 libxfont 1.4.7-1ubuntu0.4

## 1.393.1 Available under license :

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/\* lib/font/fontfile/gunzip.c

written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.

intended for inclusion in X11 public releases. \*/

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This package was debianized by

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# 1.400 bsd-mailx 8.1.2-0.20131005cvs-1ubuntu0.14.04.1

## 1.400.1 Available under license :

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.\"
.\" @(#)mail3.nr 8.1 (Berkeley) 6/8/93
.\"
.sh 1 "Maintaining folders"
.pp
.i Mail
includes a simple facility for maintaining groups of messages together
in folders. This section describes this facility.
.pp
To use the folder facility, you must tell
.i Mail
where you wish to keep your folders. Each folder of messages will
be a single file. For convenience, all of your folders are kept in
a single directory of your choosing. To tell
```



.i Mail

where your folder directory is, put a line of the form

.(l

set folder=letters

).l

in your

.i .mailrc

file. If, as in the example above, your folder directory does not begin with a `/',

.i Mail

will assume that your folder directory is to be found starting from your home directory. Thus, if your home directory is

.b /home/person

the above example told

.i Mail

to find your folder directory in

.b /home/person/letters .

.pp

Anywhere a file name is expected, you can use a folder name, preceded with `+'. For example, to put a message into a folder with the

.b save

command, you can use:

.(l

save +classwork

).l

to save the current message in the

.i classwork

folder. If the

.i classwork

folder does not yet exist, it will be created. Note that messages which are saved with the

.b save

command are automatically removed from your system mailbox.

.pp

In order to make a copy of a message in a folder without causing that message to be removed from your system mailbox, use the

.b copy

command, which is identical in all other respects to the

.b save

command. For example,

.(l

copy +classwork

).l

copies the current message into the

.i classwork

folder and leaves a copy in your system mailbox.

.pp

The



.b folder  
 command  
 can be used to direct  
 .i Mail  
 to the contents of a different folder.  
 For example,  
 .(l  
 folder +classwork  
 .)l  
 directs  
 .i Mail  
 to read the contents of the  
 .i classwork  
 folder. All of the commands that you can use on your system  
 mailbox are also applicable to folders, including  
 .b type ,  
 .b delete ,  
 and  
 .b reply .

To inquire which folder you are currently editing, use simply:

.(l  
 folder  
 .)l

.pp

To list your current set of folders, use the

.b folders  
 command.

.pp

To start

.i Mail

reading one of your folders, you can use the

.b \-f

option described in section 2. For example:

.(l  
 % Mail \-f +classwork  
 .)l

will cause

.i Mail

to read your

.i classwork

folder without looking at your system mailbox.

/\* \$OpenBSD: version.c,v 1.7 2009/10/27 23:59:40 deraadt Exp \$ \*/

/\* \$NetBSD: version.c,v 1.4 1996/06/08 19:48:46 christos Exp \$ \*/

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*/

/*
* Just keep track of the date/sid of this version of Mail.
* Load this file first to get a "total" Mail version.
*/
const char version[] = "8.1.2 01/15/2001";
.\$OpenBSD: mail7.nr,v 1.3 2003/06/03 02:56:11 millert Exp $
.\
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.\" @(#)mail7.nr 8.1 (Berkeley) 6/8/93

.\"

.sh 1 "Format of messages"

.pp

This section describes the format of messages.

Messages begin with a

.i from

line, which consists of the word

.q From

followed by a user name, followed by anything, followed by

a date in the format returned by the

.i ctime

library routine described in section 3 of the Unix Programmer's

Manual. A possible

.i ctime

format date is:

.(l

Tue Dec 1 10:58:23 1981

.)l

The

.i ctime

date may be optionally followed by a single space and a

time zone indication, which

should be three capital letters, such as PDT.

.pp

Following the

.i from

line are zero or more

.i "header field"

lines.

Each header field line is of the form:

.(l

name: information

.)l

.i Name

can be anything, but only certain header fields are recognized as

having any meaning. The recognized header fields are:



.i article-id ,  
.i bcc ,  
.i cc ,  
.i from ,  
.i reply-to ,  
.i sender ,  
.i subject ,  
and  
.i to .

Other header fields are also significant to other systems; see, for example, the current Arpanet message standard for much more information on this topic.

A header field can be continued onto following lines by making the first character on the following line a space or tab character.

.pp

If any headers are present, they must be followed by a blank line.

The part that follows is called the

.i body

of the message, and must be ASCII text, not containing null characters.

Each line in the message body must be no longer than 512 characters and terminated with an ASCII newline character.

If binary data must be passed through the mail system, it is suggested that this data be encoded in a system which encodes six bits into a printable character (i.e.: uuencode).

For example, one could use the upper and lower case letters, the digits, and the characters comma and period to make up the 64 characters.

Then, one can send a 16-bit binary number

as three characters. These characters should be packed into lines, preferably lines about 70 characters long as long lines are transmitted more efficiently.

.pp

The message delivery system always adds a blank line to the end of each message. This blank line must not be deleted.

.pp

The UUCP message delivery system sometimes adds a blank line to the end of a message each time it is forwarded through a machine.

.pp

It should be noted that some network transport protocols enforce limits to the lengths of messages.

Mail Command Description

-----  
t [message list] type message(s).  
more [message list] read message(s), through the \$PAGER  
n goto and type next message.  
e [message list] edit message(s).  
f [message list] give head lines of messages.  
d [message list] delete message(s).  
s [message list] <file> append message(s) to file.



u [message list] undelete message(s).  
 R [message list] reply to message sender(s).  
 r [message list] reply to message sender(s) and all recipients.  
 p [message list] print message list.  
 pre [message list] make messages go back to /var/mail.  
 m <recipient list> mail to specific recipient(s).  
 q quit, saving unresolved messages in mbox.  
 x quit, do not remove system mailbox.  
 h print out active message headers.  
 ! shell escape.  
 | [msglist] command pipe message(s) to shell command.  
 pi [msglist] command pipe message(s) to shell command.  
 cd [directory] chdir to directory or home if none given  
 fi <file> switch to file (%=system inbox, %user=user's  
     system inbox). + searches in your folder  
     directory for the file.  
 set variable[=value] set Mail variable.

A [message list] consists of integers, ranges of same, :status, /subject, or user names separated by spaces. If omitted, Mail uses the current message. The pipe command doesn't accept user names or subject message list, since that might conflict with the command string.

A <recipient list> consists of recipient addresses or aliases separated by spaces. Aliases are defined in .mailrc in your home directory.

<file> is a full or relative pathname, +folder, % (system inbox), %user (specified user's system inbox), # (previous file), & (mbox file), or an expression understood by \${SHELL:-/bin/sh} -c 'echo ...'.

-----  
 The following ~ escapes are defined:

~b name ... Add names to "blind" Cc: list.  
 ~c name ... Add names to Cc: field.  
 ~d Read dead.letter into message.  
 ~e Invoke text editor on partial message.  
 ~F messages Same as ~f, but includes all headers.  
 ~f messages Read in messages.  
 ~h Edit the header fields.  
 ~M messages Same as ~m, but includes all headers.  
 ~m messages Read in messages, right shifted by a tab.  
 ~p Print (show) the message buffer.  
 ~q Abort message; optionally save copy to ~/dead.letter.  
 ~r file | ~< file Read a file into the message buffer.  
 ~s string Set Subject: field to string.  
 ~t name ... Add names to To: field.  
 ~v Invoke display editor on message.  
 ~w filename Write message to file.  
 ~x Abort message; no copy is saved.



~? Print a brief summary of tilde escapes.  
~!command Execute shell command.  
~|command Pipe message through command.  
~:command | ~\_command Execute a Mail command.  
~~string Quote a single tilde.  
~. Simulate end of file on input.

```

.\" $OpenBSD: mail1.nr,v 1.4 2004/06/04 00:04:54 jmc Exp $
.\"
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.\" LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
.\" OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
.\" SUCH DAMAGE.
.\"
.\" @(#)mail1.nr 8.1 (Berkeley) 6/8/93
.\"
.sh 1 Introduction
.pp
.i Mail
provides a simple and friendly environment for sending and receiving mail.
It divides incoming mail into
its constituent messages and allows the user to deal with them
in any order. In addition, it provides a set of
.i ed -\c
like commands for manipulating messages and sending mail.
.i Mail
```



offers the user simple editing capabilities to ease the composition of outgoing messages, as well as providing the ability to define and send to names which address groups of users. Finally,

.i Mail

is able to send and receive messages across such networks as the ARPANET, UUCP, and Berkeley network.

.pp

This document describes how to use the

.i Mail

program to send and receive messages. The reader is not assumed to be familiar with other message handling systems, but should be familiar with the \s-2UNIX\s0\*\*

.(f

\s-1UNIX\s0 is a trademark of Bell Laboratories.

).f

shell, the text editor, and some of the common \s-2UNIX\s0 commands.

.q "The \s-2UNIX\s0 Programmer's Manual,"

.q "An Introduction to Csh,"

and

.q "Text Editing with Ex and Vi"

can be consulted for more information on these topics.

.pp

A word of explanation is in order here concerning the name

.i Mail :

the original UNIX mail program was known as

.i /bin/mail .

The BSD mail program was called

.i Mail

to differentiate it from the older mail program.

.i /bin/mail

is not included in OpenBSD so there is no ambiguity and the BSD mail program is installed as

.i /usr/bin/mail ;

.i /usr/bin/Mail

is simply a link for backwards compatibility.

To further confuse the issue, a second link was retained for compatibility with SystemV systems,

.i mailx .

In this document, we use the original name, `Mail',

to refer to any of these.

.pp

Here is how messages are handled:

the mail system accepts incoming

.i messages

for you from other people

and collects them in a file, called your

.i "system mailbox" .

When you log in, the system notifies you if there are any messages



waiting in your system mailbox. If you are a  
`.i csh`  
 user, you will be notified when new mail arrives if you inform  
 the shell of the location of your mailbox. On OpenBSD,  
 your system mailbox is located in the directory `/var/mail`  
 in a file with your login name. If your login name is  
`.q sam,`  
 then you can make  
`.i csh`  
 notify you of new mail by including the following line in your `.cshrc`  
 file:  
`.(l`  
`set mail=/var/mail/sam`  
`.)l`

When you read your mail using  
`.i Mail ,`  
 it reads your system mailbox and separates that file into the  
 individual messages that have been sent to you. You can then  
 read, reply to, delete, or save these messages.  
 Each message is marked with its author and the date they sent it.  
`# $OpenBSD: Makefile,v 1.4 2004/02/01 15:19:57 jmc Exp $`  
`# @(#)Makefile 8.1 (Berkeley) 6/8/93`

`DIR= usr/07.mail`  
`SRCS= mail0.nr mail1.nr mail2.nr mail3.nr mail4.nr mail5.nr mail6.nr \`  
`mail7.nr mail8.nr mail9.nr maila.nr`  
`MACROS= -me`

`paper.ps: ${SRCS}`  
`{TBL} ${SRCS} | ${ROFF} > ${.TARGET}`

`paper.txt: ${SRCS}`  
`{TBL} ${SRCS} | ${ROFF} -Tascii > ${.TARGET}`

`.include <bsd.doc.mk>`  
`.\" $OpenBSD: mail2.nr,v 1.5 2004/06/04 00:04:54 jmc Exp $`  
`.\"`  
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`.\"`  
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```

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.\" OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
.\" SUCH DAMAGE.
.\"
.\" @(#)mail2.nr 8.2 (Berkeley) 5/16/94
.\"
.sh 1 "Common usage"

.pp
The
.i Mail
command has two distinct usages, according to whether one
wants to send or receive mail. Sending mail is simple: to send a
message to a user whose login name is, say,
(lqroot,(rq
use the shell
command:
.(l
% Mail root
.)l
then type your message. When you reach the end of the message, type
an EOT (Control-D) at the beginning of a line, which will cause
.i Mail
to echo *(lqEOT*(rq and return you to the Shell. When the user you sent mail
to next logs in, he will receive the message:
.(l
You have mail.
.)l
to alert him to the existence of your message.

.pp
If, while you are composing the message
you decide that you do not wish to send it after all, you can
abort the letter with a <Control-C>. Typing a single <Control-C>
causes
.i Mail
to print
.(l

```



(Interrupt -- one more to kill letter)

.)l

Typing a second

<Control-C> causes

.i Mail

to save your partial letter on the file

.q dead.letter

in your home directory and abort the letter.

Once you have

sent mail to someone, there is no way to undo the act, so be careful.

.pp

The message your recipient reads will consist of the message you typed, preceded by a line telling who sent the message (your login name) and the date and time it was sent.

.pp

If you want to send the same message to several other people, you can list their login names on the command line.

Thus,

.(l

% Mail sam bob john

Tuition fees are due next Friday. Don't forget!!

<Control-D>

EOT

%

.)l

will send the reminder to sam, bob, and john.

.pp

If, when you log in, you see the message,

.(l

You have mail.

.)l

you can read the mail by typing simply:

.(l

% Mail

.)l

.i Mail

will respond by typing its version number and date and then listing the messages you have waiting. Then it will type a prompt and await your command. The messages are assigned numbers starting with 1 \\*- you refer to the messages with these numbers.

.i Mail

keeps track of which messages are

.i new

(have been sent since you last read your mail) and

.i read

(have been read by you). New messages have an



.b N

next to them in the header listing and old, but unread messages have

a

.b U

next to them.

.i Mail

keeps track of new/old and read/unread messages by putting a header field called

.q Status

into your messages.

.pp

To look at a specific message, use the

.b type

command, which may be abbreviated to simply

.b t .

For example, if you had the following messages:

.(l

N 1 root Wed Sep 21 09:21 "Tuition fees"

N 2 sam Tue Sep 20 22:55

.)l

you could examine the first message by giving the command:

.(l

type 1

.)l

which might cause

.i Mail

to respond with, for example:

.(l

Message 1:

From root Wed Sep 21 09:21:45 1978

Subject: Tuition fees

Status: R

Tuition fees are due next Wednesday. Don't forget!!

.)l

Many

.i Mail

commands that operate on messages take a message number as an argument like the

.b type

command. For these commands, there is a notion of a current message. When you enter the

.i Mail

program, the current message is initially the first one. Thus, you can often omit the message number and use, for example,

.(l

t



.)l

to type the current message. As a further shorthand, you can type a message by simply giving its message number. Hence,

.(l

1

.)l

would type the first message.

.pp

Frequently, it is useful to read the messages in your mailbox in order, one after another. You can read the next message in

.i Mail

by simply typing a newline. As a special case, you can type a newline as your first command to

.i Mail

to type the first message.

.pp

If, after reading a message, you wish to immediately send a reply, you can do so with the

.b reply

command.

.b Reply ,

like

.b type ,

takes a message number as an argument.

.i Mail

then begins a message addressed to the user who sent you the message.

You may then type in your letter in reply, followed by a <Control-D> at the beginning of a line, as before.

.i Mail

will type EOT, then type the ampersand prompt to indicate its readiness to accept another command. In our example, if, after typing the first message, you wished to reply to it, you might give the command:

.(l

reply

.)l

.i Mail

responds by typing:

.(l

To: root

Subject: Re: Tuition fees

.)l

and waiting for you to enter your letter.

You are now in the message collection mode described at the beginning of this section and

.i Mail

will gather up your message up to a <Control-D>.

Note that it copies the subject

header from the original message. This is useful in that correspondence



about a particular matter will tend to retain the same subject heading, making it easy to recognize. If there are other header fields in the message, the information found will also be used.

For example, if the letter had a

```
.q "To:"
```

header listing several recipients,

```
.i Mail
```

would arrange to send your reply to the same people as well.

Similarly, if the original message contained a

```
.q "Cc:"
```

(carbon copies to) field,

```
.i Mail
```

would send your reply to

```
.i those
```

users, too.

```
.i Mail
```

is careful, though, not to send the message to

```
.i you ,
```

even if you appear in the

```
.q "To:"
```

or

```
.q "Cc:"
```

field, unless you ask to be included explicitly. See section 4 for more details.

```
.pp
```

After typing in your letter, the dialog with

```
.i Mail
```

might look like the following:

```
.(l
```

reply

To: root

Subject: Tuition fees

Thanks for the reminder

EOT

&

```
.)l
```

```
.pp
```

The

```
.b reply
```

command is especially useful for sustaining extended conversations over the message system, with other

```
.q listening
```

users receiving copies of the conversation. The

```
.b reply
```

command can be abbreviated to

```
.b r .
```

```
.pp
```



Sometimes you will receive a message that has been sent to several people and wish to reply

`.i only`

to the person who sent it.

`.b Reply`

with a capital

`.b R`

replies to a message, but sends a copy to the sender only.

`.pp`

If you wish, while reading your mail, to send a message to someone, but not as a reply to one of your messages, you can send the message directly with the

`.b mail`

command, which takes as arguments the names of the recipients you wish to send to. For example, to send a message to

`.q frank,`

you would do:

`.(l`

mail frank

This is to confirm our meeting next Friday at 4.

EOT

`&`

`.)l`

The

`.b mail`

command can be abbreviated to

`.b m .`

`.pp`

Normally, each message you receive is saved in the file

`.i mbox`

in your login directory at the time you leave

`.i Mail .`

Often,

however, you will not want to save a particular message you have received because it is only of passing interest. To avoid saving a message in

`.i mbox`

you can delete it using the

`.b delete`

command. In our example,

`.(l`

delete 1

`.)l`

will prevent

`.i Mail`

from saving message 1 (from root) in

`.i mbox .`

In addition to not saving deleted messages,



.i Mail  
will not let  
you type them, either. The effect is to make the message disappear  
altogether, along with its number. The  
.b delete  
command can be abbreviated to simply  
.b d .  
.pp  
Many features of  
.i Mail  
can be tailored to your liking with the  
.b set  
command. The  
.b set  
command has two forms, depending on whether you are setting  
a  
.i binary  
option or a  
.i valued  
option.  
Binary options are either on or off. For example, the  
.q ask  
option informs  
.i Mail  
that each time you send a message, you want it to prompt you for  
a subject header, to be included in the message.  
To set the  
.q ask  
option, you would type  
.l  
set ask  
.l  
.pp  
Another useful  
.i Mail  
option is  
.q hold.  
Unless told otherwise,  
.i Mail  
moves the messages from your system mailbox to the file  
.i mbox  
in your home directory when you leave  
.i Mail .  
If you want  
.i Mail  
to keep your letters in the system mailbox instead, you can set the  
.q hold  
option.



.pp

Valued options are values which

.i Mail

uses to adapt to your tastes. For example, the

.q SHELL

option tells

.i Mail

which shell you like to use, and is specified by

.(l

set SHELL=/bin/csh

.)l

for example. Note that no spaces are allowed in

.q "SHELL=/bin/csh."

A complete list of the

.i Mail

options appears in section 5.

.pp

Another important valued option is

.q crt.

If you use a fast video terminal, you will find that when you print long messages, they fly by too quickly for you to read them.

With the

.q crt

option, you can make

.i Mail

print any message larger than a given number of lines by sending it through a paging program. This program is specified by the valued option \fBPAGER\fP.

If \fBPAGER\fP is not set, a default paginator is used.

For example, most CRT users with 24-line screens should do:

.(l

set crt=24

.)l

to paginate messages that will not fit on their screens.

In the default state, \fImore\fP (default paginator) prints a screenful of information, then types ``byte XXX'', where `XXX' represents the number of bytes paginated.

Type a space to see the next screenful.

.pp

Another adaptation to user needs that

.i Mail

provides is that of

.i aliases .

An alias is simply a name which stands for one or more real user names.

.i Mail

sent to an alias is really sent to the list of real users

associated with it. For example, an alias can be defined for the



members of a project, so that you can send mail to the whole project by sending mail to just a single name. The

`.b alias`

command in

`.i Mail`

defines an alias. Suppose that the users in a project are named Sam, Sally, Steve, and Susan. To define an alias called

`.q project`

for them, you would use the

`.i Mail`

command:

`.(l`

`alias project sam sally steve susan`

`.)l`

The

`.b alias`

command can also be used to provide a convenient name for someone whose user name is inconvenient. For example, if a user named

`.q "Bob Anderson"`

had the login name

`.q anderson,"`

you might want to use:

`.(l`

`alias bob anderson`

`.)l`

so that you could send mail to the shorter name,

`.q bob.`

`.pp`

While the

`.b alias`

and

`.b set`

commands allow you to customize

`.i Mail` ,

they have the drawback that they must be retyped each time you enter

`.i Mail` .

To make them more convenient to use,

`.i Mail`

always looks for two files when it is invoked. It first reads

a system wide file

`.q /etc/mail.rc,`

then a user specific file,

`.q .mailrc,`

which is found in the user's home directory.

The system wide file

is maintained by the system administrator and

contains

`.b set`



commands that are applicable to all users of the system.

The

`.q .mailrc`

file is usually used by each user to set options the way he likes and define individual aliases.

For example, my `.mailrc` file looks like this:

`.(l`

`set ask nosave SHELL=/bin/csh`

`.)l`

As you can see, it is possible to set many options in the same

`.b set`

command. The

`.q nosave`

option is described in section 5.

`.pp`

Mail aliasing is implemented

at the system-wide level

by the mail delivery

system

`.i sendmail .`

These aliases are stored in the file `/etc/mail/aliases` and are accessible to all users of the system.

The lines in `/etc/mail/aliases` are of

the form:

`.(l`

`alias: name\*<1\*>, name\*<2\*>, name\*<3\*>`

`.)l`

where

`.i alias`

is the mailing list name and the

`.i name\*<i\*>`

are the members of the list. Long lists can be continued onto the next line by starting the next line with a space or tab. Remember that you must execute the command

`.i newaliases`

(as superuser)

after editing `/etc/mail/aliases` since the delivery system

uses an indexed file created by

`.i newaliases .`

`.pp`

We have seen that

`.i Mail`

can be invoked with command line arguments which are people to send the message to, or with no arguments to read mail.

Specifying the

`.rb -f`

flag on the command line causes



.i Mail  
to read messages from a file other than your system mailbox.  
For example, if you have a collection of messages in  
the file  
.q letters  
you can use  
.i Mail  
to read them with:  
.l  
% Mail -f letters  
.l  
You can use all  
the  
.i Mail  
commands described in this document to examine, modify, or delete  
messages from your  
.q letters  
file, which will be rewritten when you leave  
.i Mail  
with the  
.b quit  
command described below.  
.pp  
Since mail that you read is saved in the file  
.i mbox  
in your home directory by default, you can read  
.i mbox  
in your home directory by using simply  
.l  
% Mail -f  
.l  
.pp  
Normally, messages that you examine using the  
.b type  
command are saved in the file  
.q mbox  
in your home directory if you leave  
.i Mail  
with the  
.b quit  
command described below.  
If you wish to retain a message in your system mailbox  
you can use the  
.b preserve  
command to tell  
.i Mail  
to leave it there.  
The



.b preserve  
 command accepts a list of message numbers, just like

.b type  
 and may be abbreviated to

.b pre .

.pp  
 Messages in your system mailbox that you do not examine are normally retained in your system mailbox automatically.  
 If you wish to have such a message saved in

.i mbox  
 without reading it, you may use the

.b mbox  
 command to have them so saved. For example,

.(l  
 mbox 2  
 .)l  
 in our example would cause the second message (from sam) to be saved in

.i mbox  
 when the

.b quit  
 command is executed.

.b Mbox  
 is also the way to direct messages to your

.i mbox  
 file if you have set the

.q hold  
 option described above.

.b Mbox  
 can be abbreviated to

.b mb .

.pp  
 When you have perused all the messages of interest, you can leave

.i Mail  
 with the

.b quit  
 command, which saves the messages you have typed but not deleted in the file

.i mbox  
 in your login directory. Deleted messages are discarded irretrievably, and messages left untouched are preserved in your system mailbox so that you will see them the next time you type:

.(l  
 % Mail  
 .)l  
 The

.b quit  
 command can be abbreviated to simply



```
.b q .
.pp
If you wish for some reason to leave
.i Mail
quickly without altering either your system mailbox or
.i mbox ,
you can type the
.b x
command (short for
.b exit),
which will immediately return you to the Shell without changing anything.
```

```
.pp
If, instead, you want to execute a Shell command without leaving
.i Mail ,
you
can type the command preceded by an exclamation point, just as in the
text editor. Thus, for instance:
```

```
.(l
!date
.)l
will print the current date without leaving
.i Mail .
```

```
.pp
Finally, the
.b help
command is available to print out a brief summary of the
.i Mail
commands, using only the single character command abbreviations.
$OpenBSD: Makefile,v 1.9 2010/01/04 17:50:39 deraadt Exp $
```

```
PROG= mail
SRCS= version.c aux.c cmd1.c cmd2.c cmd3.c cmdtab.c collect.c \
edit.c fio.c getname.c head.c v7.local.c lex.c list.c main.c names.c \
popen.c quit.c send.c strings.c temp.c tty.c vars.c
SFILES= mail.help mail.tildehelp
EFILES= mail.rc
LINKS= ${BINDIR}/mail ${BINDIR}/Mail ${BINDIR}/mail ${BINDIR}/mailx
MLINKS= mail.1 Mail.1 mail.1 mailx.1
```

beforeinstall:

```
cd ${.CURDIR}/misc; ${INSTALL} ${INSTALL_COPY} -o ${BINOWN} -g ${BINGRP} \
-m 444 ${SFILES} ${DESTDIR}/usr/share/misc
```

distribution:

```
cd ${.CURDIR}/misc; ${INSTALL} ${INSTALL_COPY} -o root -g wheel \
-m 644 ${EFILES} ${DESTDIR}/etc
```

```
.include <bsd.prog.mk>
```



```

.\" $OpenBSD: mail.1,v 1.61 2013/07/18 07:11:00 jmc Exp $
.\"
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.\" LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
.\" OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
.\" SUCH DAMAGE.
.\"
.\" @(#)mail.1 8.8 (Berkeley) 4/28/95
.\"
.Dd $Mdocdate: July 18 2013 $
.Dt MAIL 1
.Os
.Sh NAME
.Nm mail ,
.Nm mailx ,
.Nm Mail
.Nd send and receive mail
.Sh SYNOPSIS
.Nm mail
.Bk -words
.Op Fl dEInv
.Op Fl b Ar list
.Op Fl c Ar list
.Op Fl s Ar subject
.Ar to-addr ...
.Op Fl Ar sendmail-options ...

```



.Ek

.Nm mail

.Op Fl dEiNnv

.Fl f

.Op Ar file

.Nm mail

.Op Fl dEiNnv

.Op Fl u Ar user

.Sh DESCRIPTION

.Nm mail

is an intelligent mail processing system which has  
a command syntax reminiscent of

.Xr ed 1

with lines replaced by messages.

.Pp

The options are as follows:

.Bl -tag -width Ds

.It Fl b Ar list

Send blind carbon copies to

.Ar list .

.It Fl c Ar list

Send carbon copies to

.Ar list

of users.

.Ar list

should be a comma separated list of names.

.It Fl d

Causes

.Nm mail

to output all sorts of information useful for debugging

.Nm mail .

.It Fl E

Don't send messages with an empty body.

.It Fl f Op Ar file

Read in the contents of your mailbox  
(or the specified

.Ar file )

for processing; when you quit,

.Nm mail

writes undeleted messages back to this

.Ar file .

.It Fl I

Forces

.Nm mail

to run in interactive mode, even when input is not a terminal.

In particular, the special

.Ic ~

command character, used when sending mail, is only available interactively.



.It Fl i  
Ignore tty interrupt signals.  
This is  
particularly useful when using  
.Nm mail  
on noisy phone lines.

.It Fl N  
Inhibits initial display of message headers  
when reading mail or editing a mail folder.

.It Fl n  
Inhibits reading  
.Pa /etc/mail.rc  
upon startup.

.It Fl s Ar subject  
Specify subject on command line  
(only the first argument after the  
.Fl s  
flag is used as a subject; be careful to quote subjects  
containing spaces).

.It Fl u Ar user  
Equivalent to:  
.Pp  
.Dl \$ mail -f /var/mail/user  
.Pp  
except that locking is done.

.It Fl v  
Verbose mode.  
The details of  
delivery are displayed on the user's terminal.

.El

.Ss Startup actions  
At startup time,  
.Nm mail  
will execute commands in the system command file,  
.Pa /etc/mail.rc ,  
unless explicitly told not to by using the  
.Fl n  
option.  
Next, the commands in the user's personal command file  
.Pa ~/.mailrc  
are executed.  
.Nm mail  
then examines its command line options to determine whether the user  
requested a new message to be sent or existing messages in a mailbox  
to be examined.

.Ss Sending mail  
To send a message to one or more people,  
.Nm mail



can be invoked with arguments which are the names of people to whom the mail will be sent.

You are then expected to type in your message, followed by a control-D

.Pq Sq ^D

at the beginning of a line.

The section below,

.Sx Replying to or originating mail ,

describes some features of

.Nm mail

available to help you compose your letter.

.Ss Reading mail

In normal usage,

.Nm mail

is given no arguments and checks your mail out of the post office, then prints out a one line header of each message found.

The current message is initially set to the first message (numbered 1) and can be printed using the

.Ic print

command (which can be abbreviated

.Ic p ) .

Moving among the messages is much like moving between lines in

.Xr ed 1 ;

you may use

.Ic +

and

.Ic -

to shift forwards and backwards, or simply enter a message number to move directly.

.Ss Disposing of mail

After examining a message you can

.Ic delete

.Pq Ic d

or

.Ic reply

.Pq Ic r

to it.

Deletion causes the

.Nm mail

program to forget about the message.

This is not irreversible; the message can be

.Ic undeleted

.Pq Ic u

by giving its number, or the

.Nm mail

session can be aborted by giving the



.Ic exit

.Pq Ic x

command.

Deleted messages, however, will usually disappear, never to be seen again.

.Ss Specifying messages

Commands such as

.Ic print

and

.Ic delete

can be given a list of message numbers as arguments to apply to a number of messages at once.

Thus

.Ic delete 1 2

deletes messages 1 and 2, while

.Ic delete 1\5

deletes messages 1 through 5.

.Pp

Messages may also be selected using one of the following categories:

.Pp

.Bl -tag -width Ds -offset indent -compact

.It \*

all messages

.It \$

last message

.It :d

deleted messages

.It :n

new messages

.It :o

old messages

.It :r

read messages

.It :u

unread messages

.El

.Pp

Thus the command

.Ic top ,

which prints the first few lines of a message, could be used in

.Ic top \*

to print the first few lines of all messages.

.Ss Replying to or originating mail

You can use the

.Ic reply

command to

set up a response to a message, sending it back to the person who it was from.



Text you then type in, up to an end-of-file,  
defines the contents of the message.  
While you are composing a message,  
.Nm mail  
treats lines beginning with the tilde  
.Pq Sq ~  
character specially.  
For instance, typing  
.Ic ~m  
(alone on a line) will place a copy  
of the current message into the response, right shifting it by a single  
tab-stop (see the  
.Va indentprefix  
variable, below).  
Other escapes will set up subject fields, add and delete recipients  
to the message, and allow you to escape to an editor to revise the  
message or to a shell to run some commands.  
(These options  
are given in the summary below.)  
.Ss Ending a mail processing session  
You can end a  
.Nm mail  
session with the  
.Ic quit  
.Pq Ic q  
command.  
Messages which have been examined go to your  
.Ar mbox  
file unless they have been deleted, in which case they are discarded.  
Unexamined messages go back to the post office (see the  
.Fl f  
option above).  
.Ss Personal and system wide distribution lists  
It is also possible to create personal distribution lists so that,  
for instance, you can send mail to  
.Dq Li cohorts  
and have it go  
to a group of people.  
Such lists can be defined by placing a line like  
.Pp  
.Dl alias cohorts bill ozalp jkf mark kridle@ucbcory  
.Pp  
in the file  
.Pa .mailrc  
in your home directory.  
The current list of such aliases can be displayed with the  
.Ic alias  
command in



.Nm mail .

System wide distribution lists can be created by editing

.Pa /etc/mail/aliases

(see

.Xr aliases 5

and

.Xr sendmail 8 ) ;

these are kept in a different syntax.

In mail you send, personal aliases will be expanded in mail sent to others so that they will be able to

.Ic reply

to the recipients.

System wide aliases

are not expanded when the mail is sent,

but any reply returned to the machine will have the system wide alias expanded as all mail goes through

.Xr sendmail .

.Ss Network mail (ARPA, UUCP, Berknet)

See

.Xr mailaddr 7

for a description of network addresses.

.Pp

.Nm mail

has a number of options which can be set in the

.Pa .mailrc

file to alter its behavior; thus

.Ic set askcc

enables the

.Ar askcc

feature.

(These options are summarized below.)

.Sh SUMMARY

(Adapted from the

.Dq Mail Reference Manual . )

.Pp

Each command is typed on a line by itself, and may take arguments following the command word.

The command need not be typed in its

entirety -- the first command which matches the typed prefix is used.

For commands which take message lists as arguments, if no message list is given, then the next message forward which satisfies the command's requirements is used.

If there are no messages forward of

the current message, the search proceeds backwards, and if there are no good messages at all,

.Nm mail

types

.Dq \&No applicable messages



and  
aborts the command.  
.Bl -tag -width delete  
.It Ic -  
Print out the preceding message.  
If given a numeric  
argument  
.Ar n ,  
goes to the  
.Ar n Ns th  
previous message and prints it.  
.It Ic \&?  
Prints a brief summary of commands.  
.It Ic \&!  
Executes the shell  
(see  
.Xr sh 1  
and  
.Xr csh 1 )  
command which follows.  
.It Ic alias  
.Pq Ic a  
With no arguments, prints out all currently defined aliases.  
With one  
argument, prints out that alias.  
With more than one argument, creates  
a new alias or changes an old one.  
.It Ic alternates  
.Pq Ic alt  
The  
.Ic alternates  
command is useful if you have accounts on several machines.  
It can be used to inform  
.Nm mail  
that the listed addresses are really you.  
When you  
.Ic reply  
to messages,  
.Nm mail  
will not send a copy of the message to any of the addresses  
listed on the  
.Ic alternates  
list.  
If the  
.Ic alternates  
command is given with no argument, the current set of alternate  
names is displayed.  
.It Ic chdir



.Pq Ic c

Changes the user's working directory to that specified, if given.

If

no directory is given, then changes to the user's login directory.

.It Ic copy

.Pq Ic co

The

.Ic copy

command does the same thing that

.Ic save

does, except that it does not mark the messages it

is used on for deletion when you quit.

.It Ic delete

.Pq Ic d

Takes a list of messages as argument and marks them all as deleted.

Deleted messages will not be saved in

.Ar mbox ,

nor will they be available for most other commands.

.It Ic dp

(also

.Ic dt )

Deletes the current message and prints the next message.

If there is no next message,

.Nm mail

says

.Dq Li "\&No more messages."

.It Ic edit

.Pq Ic e

Takes a list of messages and points the text editor at each one in turn.

On return from the editor, the message is read back in.

.It Ic exit

.Pf ( Ic ex

or

.Ic x )

Effects an immediate return to the shell without

modifying the user's system mailbox, his

.Ar mbox

file, or his edit file in

.Fl f .

.It Ic file

.Pq Ic fi

The same as

.Ic folder .

.It Ic folder

.Pq Ic fo

The

.Ic folder



command switches to a new mail file or folder.

With no

arguments, it tells you which file you are currently reading.

If you give it an argument, it will write out changes (such as deletions) you have made in the current file and read in the new file.

Some special conventions are recognized for the name.

# means the previous file, % means your system mailbox, %user means user's system mailbox, & means your

.Ar mbox

file, and

+folder means a file in your folder directory.

.It Ic folders

List the names of the folders in your folder directory.

.It Ic from

.Pq Ic f

Takes a list of messages and prints their message headers.

.It Ic headers

.Pq Ic h

Lists the current windowful of headers.

To view the next or previous group of headers, see the

.Ic z

command.

.It Ic help

A synonym for

.Ic \&? .

.It Ic hold

.Pf ( Ic ho ,

also

.Ic preserve )

Takes a message list and marks each message therein to be saved in the user's system mailbox instead of in

.Ar mbox .

Does not override the

.Ic delete

command.

.It Ic ignore

Add the list of header fields named to the

.Ar ignored list .

Header fields in the ignore list are not printed on your terminal when you print a message.

This

command is very handy for suppression of certain machine-generated header fields.



The

.Ic Type

and

.Ic Print

commands can be used to print a message in its entirety, including ignored fields.

If

.Ic ignore

is executed with no arguments, it lists the current set of ignored fields.

.It Ic inc

Incorporate any new messages that have arrived while mail is being read.

The new messages are added to the end of the message list, and the current message is reset to be the first new mail message.

This does not renumber the existing message list, nor does it cause any changes made so far to be saved.

.It Ic list

.Pq Ic l

List the valid

.Nm

commands.

.It Ic mail

.Pq Ic m

Takes as argument login names and distribution group names and sends mail to those people.

.It Ic mbox

Indicate that a list of messages be sent to

.Ar mbox

in your home directory when you quit.

This is the default

action for messages if you do

.Em not

have the

.Ic hold

option set.

.It Ic more

.Pq Ic \&mo

Takes a message list and invokes the pager on that list.

.It Ic next

.Pq Ic n

(like

.Ic +

or

.Tn CR )

Goes to the next message in sequence and types it.

With an argument list, types the next matching message.

.It Ic preserve



.Pq Ic pre

A synonym for

.Ic hold .

.It Ic Print

.Pq Ic P

Like

.Ic print

but also prints out ignored header fields.

See also

.Ic print ,

.Ic ignore ,

and

.Ic retain .

.It Ic print

.Pq Ic p

Takes a message list and types out each message on the user's terminal.

.It Ic quit

.Pq Ic q

Terminates the session, saving all undeleted, unsaved messages in the user's

.Ar mbox

file in his login directory, preserving all messages marked with

.Ic hold

or

.Ic preserve

or never referenced

in his system mailbox, and removing all other messages from his system mailbox.

If new mail has arrived during the session, the message

.Dq Li "You have new mail"

is given.

If given while editing a

mailbox file with the

.Fl f

flag, then the edit file is rewritten.

A return to the shell is

effected, unless the rewrite of edit file fails, in which case the user can escape with the

.Ic exit

command.

.It Ic Reply

.Pq Ic R

Reply to originator.

Does not reply to other

recipients of the original message.

.It Ic reply

.Pq Ic r

Takes a message list and sends mail to the sender and all



recipients of the specified message.

The default message must not be deleted.

.It Ic respond

A synonym for

.Ic reply .

.It Ic retain

Add the list of header fields named to the

.Ar retained list .

Only the header fields in the retain list

are shown on your terminal when you print a message.

All other header fields are suppressed.

The

.Ic Type

and

.Ic Print

commands can be used to print a message in its entirety.

If

.Ic retain

is executed with no arguments, it lists the current set of retained fields.

.It Ic save

.Pq Ic s

Takes a message list and a filename and appends each message in turn to the end of the file.

The filename in quotes, followed by the line

count and character count is echoed on the user's terminal.

.It Ic saveignore

.Ic saveignore

is to

.Ic save

what

.Ic ignore

is to

.Ic print

and

.Ic type .

Header fields thus marked are filtered out when

saving a message by

.Ic save

or when automatically saving to

.Ar mbox .

.It Ic saveretain

.Ic saveretain

is to

.Ic save

what

.Ic retain

is to



.Ic print  
and  
.Ic type .  
Header fields thus marked are the only ones saved  
with a message when saving by  
.Ic save  
or when automatically saving to  
.Ar mbox .  
.Ic saveretain  
overrides  
.Ic saveignore .  
.It Ic set  
.Pq Ic se  
With no arguments, prints all variable values.  
Otherwise, sets  
option.  
Arguments are of the form  
.Ar option=value  
(no space before or after =) or  
.Ar option .  
Quotation marks may be placed around any part of the assignment statement to  
quote blanks or tabs, i.e.,  
.Ic set indentprefix="->" .  
.It Ic shell  
.Pq Ic sh  
Invokes an interactive version of the shell.  
.It Ic size  
Takes a message list and prints out the size in characters of each  
message.  
.It Ic source  
The  
.Ic source  
command reads  
commands from a file.  
.It Ic top  
Takes a message list and prints the top few lines of each.  
The number of  
lines printed is controlled by the variable  
.Ic topline  
and defaults to five.  
.It Ic Type  
.Pq Ic T  
Identical to the  
.Ic Print  
command.  
.It Ic type  
.Pq Ic t  
A synonym for



.Ic print .  
 .It Ic unalias  
 Takes a list of names defined by  
 .Ic alias  
 commands and discards the remembered groups of users.  
 The group names  
 no longer have any significance.  
 .It Ic undelete  
 .Pq Ic u  
 Takes a message list and marks each message as not being deleted.  
 .It Ic unread  
 .Pq Ic U  
 Takes a message list and marks each message as not having been read.  
 .It Ic unset  
 Takes a list of option names and discards their remembered values;  
 the inverse of  
 .Ic set .  
 .It Ic visual  
 .Pq Ic v  
 Takes a message list and invokes the display editor on each message.  
 .It Ic write  
 .Pq Ic w  
 Similar to  
 .Ic save ,  
 except that  
 .Ic only  
 the message body  
 (without the header)  
 is saved.  
 Extremely useful for such tasks as sending and receiving source  
 program text over the message system.  
 .It Ic xit  
 .Pq Ic x  
 A synonym for  
 .Ic exit .  
 .It Ic z  
 .Nm mail  
 presents message headers in windowfuls as described under the  
 .Ic headers  
 command.  
 You can move  
 .Nm mail Ns 's  
 attention forward to the next window with the  
 .Ic z  
 command.  
 Also, you can move to the previous window by using  
 .Ic z- .  
 .El



.Ss Tilde/escapes

Here is a summary of the tilde escapes,  
which are used when composing messages to perform  
special functions.

Tilde escapes are only recognized at the beginning  
of lines.

The name

.Dq tilde escape

is somewhat of a misnomer since the actual escape character can be set  
by the option

.Ic escape .

.Pp

.Bl -tag -width Ds -compact

.It Ic ~b Ns Ar name ...

Add the given names to the list of carbon copy recipients but do not make  
the names visible in the Cc: line ("blind" carbon copy).

.Pp

.It Ic ~c Ns Ar name ...

Add the given names to the list of carbon copy recipients.

.Pp

.It Ic ~d

Read the file

.Pa dead.letter

from your home directory into the message.

.Pp

.It Ic ~e

Invoke the text editor on the message collected so far.

After the

editing session is finished, you may continue appending text to the  
message.

.Pp

.It Ic ~F Ns Ar messages

Identical to

.Ic ~f ,

except all message headers are included.

.Pp

.It Ic ~f Ns Ar messages

Read the named messages into the message being sent.

If no messages are specified, read in the current message.

Message headers currently being ignored (by the

.Ic ignore

or

.Ic retain

command) are not included.

.Pp

.It Ic ~h

Edit the message header fields by typing each one in turn and allowing  
the user to append text to the end or modify the field by using the



current terminal erase and kill characters.

.Pp

.It Ic ~M Ns Ar messages

Identical to

.Ic ~m ,

except all message headers are included.

.Pp

.It Ic ~m Ns Ar messages

Read the named messages into the message being sent, indented by a tab or by the value of

.Va indentprefix .

If no messages are specified,  
read the current message.

Message headers currently being ignored (by the

.Ic ignore

or

.Ic retain

command) are not included.

.Pp

.It Ic ~p

Print out the message collected so far, prefaced by the message header fields.

.Pp

.It Ic ~q

Abort the message being sent, copying the message to

.Pa dead.letter

in your home directory if

.Ic save

is set.

.Pp

.It Ic ~r Ns Ar filename

.It Ic ~< Ns Ar filename

Read the named file into the message.

.Pp

.It Ic ~s Ns Ar string

Cause the named string to become the current subject field.

.Pp

.It Ic ~t Ns Ar name ...

Add the given names to the direct recipient list.

.Pp

.It Ic ~v

Invoke an alternate editor (defined by the

.Ev VISUAL

option) on the

message collected so far.

Usually, the alternate editor will be a  
screen editor.

After you quit the editor, you may resume appending



text to the end of your message.

.Pp

.It Ic ~w Ns Ar filename

Write the message onto the named file.

.Pp

.It Ic ~x

Abort the message being sent.

No message is copied to

.Pa ~/dead.letter ,

even if

.Ic save

is set.

.Pp

.It Ic ~?

Prints a brief summary of tilde escapes.

.Pp

.It Ic ~! Ns Ar command

Execute the indicated shell command, then return to the message.

.Pp

.It Ic ~| Ns Ar command

Pipe the message through the command as a filter.

If the command gives

no output or terminates abnormally, retain the original text of the message.

The command

.Xr fmt 1

is often used as

.Ic command

to rejustify the message.

.Pp

.It Ic ~: Ns Ar mail-command

.It Ic ~\_ Ns Ar mail-command

Execute the given mail command.

Not all commands, however, are allowed.

.Pp

.It Ic ~~ Ns Ar string

Insert the string of text in the message prefaced by a single ~.

If

you have changed the escape character, then you should double that character in order to send it.

.Pp

.It Ic ~.

Simulate end of file on input.

.El

.Ss Mail options

Options are controlled via

.Ic set

and



.Ic unset  
commands.  
Options may be either binary, in which case it is only  
significant to see whether they are set or not; or string, in which  
case the actual value is of interest.  
The binary options include the following:  
.Bl -tag -width append  
.It Ar append  
Causes messages saved in  
.Ar mbox  
to be appended to the end rather than prepended.  
This should always be set (perhaps in  
.Pa /etc/mail.rc ) .  
.It Ar ask , asksub  
Causes  
.Nm mail  
to prompt you for the subject of each message you send.  
If  
you respond with simply a newline, no subject field will be sent.  
.It Ar askbcc  
Causes you to be prompted for additional blind carbon copy recipients at the  
end of each message.  
Responding with a newline indicates your  
satisfaction with the current list.  
.It Ar askcc  
Causes you to be prompted for additional carbon copy recipients at the  
end of each message.  
Responding with a newline indicates your  
satisfaction with the current list.  
.It Ar autoinc  
Causes new mail to be automatically incorporated when it arrives.  
Setting this is similar to issuing the  
.Ic inc  
command at each prompt, except that the current message is not  
reset when new mail arrives.  
.It Ar autoprint  
Causes the  
.Ic delete  
command to behave like  
.Ic dp ;  
thus, after deleting a message, the next one will be typed  
automatically.  
.It Ar debug  
Setting the binary option  
.Ar debug  
is the same as specifying  
.Fl d  
on the command line and causes



.Nm mail  
to output all sorts of information useful for debugging

.Nm mail .

.It Ar dot  
The binary option

.Ar dot  
causes

.Nm mail  
to interpret a period alone on a line as the terminator  
of a message you are sending.

.It Ar hold  
This option is used to hold messages in the system mailbox  
by default.

.It Ar ignore  
Causes interrupt signals from your terminal to be ignored and echoed as  
@'s.

.It Ar ignoreeof  
An option related to

.Ar dot  
is

.Ar ignoreeof  
which makes

.Nm mail  
refuse to accept a control-D as the end of a message.

.Ar ignoreeof  
also applies to

.Nm mail  
command mode.

.It Ar keep  
Setting this option causes

.Nm  
to truncate your system mailbox instead of deleting it  
when it's empty.

.It Ar keepsave  
Messages saved with the

.Ic save  
command are not normally saved in

.Ar mbox  
at quit time.  
Use this option to retain those messages.

.It Ar metoo  
Usually, when a group is expanded that contains the sender, the sender  
is removed from the expansion.  
Setting this option causes the sender  
to be included in the group.

.It Ar noheader  
Setting the option

.Ar noheader



is the same as giving the  
 .FI N  
 flag on the command line.  
 .It Ar nosave  
 Normally, when you abort a message with two interrupt characters  
 (usually control-C),  
 .Nm mail  
 copies the partial letter to the file  
 .Pa dead.letter  
 in your home directory.  
 Setting the binary option  
 .Ar nosave  
 prevents this.  
 .It Ar quiet  
 Suppresses the printing of the version when first invoked.  
 .It Ar Replyall  
 Reverses the sense of  
 .Ic reply  
 and  
 .Ic Reply  
 commands.  
 .It Ar searchheaders  
 If this option is set, then a message-list specifier in the form  
 .Dq /x:y  
 will expand to all messages containing the substring  
 .Sq y  
 in the header  
 field  
 .Sq x .  
 The string search is case insensitive.  
 If  
 .Sq x  
 is omitted, it will default to the  
 .Dq Subject  
 header field.  
 The form  
 .Dq /to:y  
 is a special case, and will expand  
 to all messages containing the substring  
 .Sq y  
 in the  
 .Dq To ,  
 .Dq Cc  
 or  
 .Dq Bcc  
 header fields.  
 The check for  
 .Dq to



is case sensitive, so that  
.Dq /To:y  
can be used to limit the search for  
.Sq y  
to just the  
.Dq To:  
field.  
.It Ar skipempty  
Don't send messages with an empty body.  
.It Ar verbose  
Setting the option  
.Ar verbose  
is the same as using the  
.Fl v  
flag on the command line.  
When  
.Nm  
runs in verbose mode,  
the actual delivery of messages is displayed on the user's  
terminal.  
.El  
.Ss Option string values  
.Bl -tag -width Va  
.It Ev EDITOR  
Pathname of the text editor to use in the  
.Ic edit  
command and  
.Ic ~e  
escape.  
If not defined,  
.Pa /usr/bin/ex  
is used.  
.It Ev LISTER  
Pathname of the directory lister to use in the  
.Ic folders  
command.  
Default is  
.Pa /bin/ls .  
.It Ev MBOX  
The name of the  
.Ar mbox  
file.  
It can be the name of a folder.  
The default is  
.Dq Li mbox  
in the user's home directory.  
.It Ev PAGER  
Pathname of the program to use in the



.Ic more  
command or when the

.Ar crt  
variable is set.  
The default paginator

.Xr more 1  
is used if this option is not defined.

.It Ev SHELL  
Pathname of the shell to use in the

.Ic !\&  
command and the

.Ic ~!\&  
escape.  
A default shell is used if this option is  
not defined.

.It Ev TMPDIR  
Directory in which temporary files are stored.

.It Ev VISUAL  
Pathname of the text editor to use in the

.Ic visual  
command and

.Ic ~v  
escape.  
If not defined,

.Pa /usr/bin/vi  
is used.

.It Ar crt  
The valued option

.Ar crt  
is used as a threshold to determine how long a message must  
be before

.Ev PAGER  
is used to read it.

If

.Ar crt  
is set without a value,  
then the height of the terminal screen stored in the system  
is used to compute the threshold (see

.Xr stty 1 ) .

.It Ar escape  
If defined, the first character of this option gives the character to  
use in the place of ~ to denote escapes.

.It Ar folder  
The name of the directory to use for storing folders of  
messages.  
If this name begins with a

.Ql / ,

.Nm mail



considers it to be an absolute pathname; otherwise, the folder directory is found relative to your home directory.

.It Ar indentprefix  
String used by the

.Ic ~m  
tilde escape for indenting messages, in place of the normal tab character

.Pq Sq ^I .  
Be sure to quote the value if it contains spaces or tabs.

.It Ar record  
If defined, gives the pathname of the file used to record all outgoing mail.  
If not defined, then outgoing mail is not so saved.

.It Ar screen  
Size of window of message headers for

.Ic z .  
.It Ar sendmail  
Pathname to an alternative mail delivery system.

.It Ar topline  
If defined, gives the number of lines of a message to be printed out with the

.Ic top  
command; normally, the first five lines are printed.

.El

.Sh ENVIRONMENT

.Nm mail  
utilizes the

.Ev HOME ,  
.Ev LOGNAME ,  
.Ev MAIL ,  
.Ev MAILRC ,  
and  
.Ev USER  
environment variables.

.Pp  
If the  
.Ev MAIL  
environment variable is set, its value is used as the path to the user's mail spool.

.Sh FILES

.Bl -tag -width /usr/share/misc/mail.\*help -compact

.It Pa /var/mail/\*  
post office (unless overridden by the  
.Ev MAIL  
environment variable)

.It ~/mbox  
user's old mail

.It ~/.mailrc



file giving initial mail commands; can be overridden by setting the

.Ev MAILRC

environment variable

.It Pa /tmp/R\*

temporary files

.It Pa /usr/share/misc/mail.\*help

help files

.It Pa /etc/mail.rc

system initialization file

.El

.Sh EXIT STATUS

.Ex -std mail

.Sh SEE ALSO

.Xr fmt 1 ,

.Xr lockspool 1 ,

.Xr vacation 1 ,

.Xr aliases 5 ,

.Xr mailaddr 7 ,

.Xr mail.local 8 ,

.Xr newaliases 8 ,

.Xr sendmail 8

.Sh STANDARDS

The

.Nm mailx

utility is compliant with the

.St -p1003.1-2008

specification.

.Pp

The flags

.Op Fl bcdElv

are extensions to that specification.

.Sh HISTORY

A

.Nm mail

command appeared in

.At v3 .

This man page is derived from the

.%T "Mail Reference Manual"

originally written by Kurt Shoens.

.Sh BUGS

There are some flags that are not documented here.

Most are

not useful to the general user.

.Pp

Usually,

.Nm mail

and

.Nm mailx



are just links to

.Nm Mail ,

which can be confusing.

.\" \$OpenBSD: maila.nr,v 1.3 2003/06/03 02:56:11 millert Exp \$

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.\" @(#)maila.nr 8.1 (Berkeley) 6/8/93

.\"

.\" \$OpenBSD: mail5.nr,v 1.6 2008/11/03 18:20:45 jmc Exp \$

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.\"
.\" @(#)mail5.nr 8.2 (Berkeley) 5/16/94
.\"
.sh 1 "Additional features"
.pp
This section describes some additional commands useful for
reading your mail, setting options, and handling lists of messages.
.sh 2 "Message lists"
.pp
Several
.i Mail
commands accept a list of messages as an argument.
Along with
.b type
and
.b delete ,
described in section 2,
there is the
.b from
command, which prints the message headers associated with the
message list passed to it.
The
.b from
command is particularly useful in conjunction with some of the
message list features described below.
.pp
A
.i "message list"
consists of a list of message numbers, ranges, and names,
separated by spaces or tabs. Message numbers may be either
decimal numbers, which directly specify messages, or one of the
special characters
.q "^" ,
.q "." ,

```



or

.q "\$"

to specify the first relevant, current, or last relevant message, respectively.

.i Relevant

here means, for most commands

.q "not deleted"

and

.q "deleted"

for the

.b undelete

command.

.pp

A range of messages consists of two message numbers (of the form described in the previous paragraph) separated by a dash.

Thus, to print the first four messages, use

.(l

type 1\ -4

.)l

and to print all the messages from the current message to the last message, use

.(l

type .\ -\$

.)l

.pp

A

.i name

is a user name. The user names given in the message list are collected together and each message selected by other means is checked to make sure it was sent by one of the named users.

If the message consists entirely of user names, then every message sent by one of those users that is

.i relevant

(in the sense described earlier)

is selected. Thus, to print every message sent to you by

.q root,

do

.(l

type root

.)l

.pp

As a shorthand notation, you can specify simply

.q \*

to get every

.i relevant

(same sense)

message. Thus,

.(l



```

type *
.)l
prints all undeleted messages,
.(l
delete *
.)l
deletes all undeleted messages, and
.(l
undelete *
.)l
undeletes all deleted messages.

.pp
You can search for the presence of a word in subject lines with
.b / .
For example, to print the headers of all messages that contain the
word
.q PASCAL,
do:
.(l
from /pascal
.)l
Note that subject searching ignores upper/lower case differences.
.sh 2 "List of commands"

.pp
This section describes all the
.i Mail
commands available when
receiving mail.
.ip "\fB\-\fP\ \"
The
.rb \-
command goes to the previous message and prints it. The
.rb \-
command may be given a decimal number
.i n
as an argument, in which case the
.i n th
previous message is gone to and printed.
.ip "\fB?\fP\ \"
Prints a brief summary of commands.
.ip "\fB!\fP\ \"
Used to preface a command to be executed by the shell.
.ip "\fBPrint\fP\ \"
Like
.b print ,
but also print out ignored header fields. See also
\fBprint\fP, \fBignore\fP, and \fBretain\fP.
\fBPrint\fP can be abbreviated to \fBP\fP.

```



.ip "\fBReply\fP or \fBRespond\fP \ \"

Note the capital \fBR\fP in the name.

Frame a reply to one or more messages.

The reply (or replies if you are using this on multiple messages) will be sent ONLY to the person who sent you the message (respectively, the set of people who sent the messages you are replying to).

You can

add people using the \fB~t\fP, \fB~c\fP, and \fB~b\fP tilde escapes. The subject in your reply is formed by prefacing the subject in the original message with

.q "Re:"

unless it already began thus.

If the original message included a

.q "reply-to"

header field, the reply will go

.i only

to the recipient named by

.q "reply-to."

You type in your message using the same conventions available to you through the

.b mail

command.

The

.b Reply

command is especially useful for replying to messages that were sent to enormous distribution groups when you really just want to send a message to the originator. Use it often.

\fBReply\fP (and \fBRespond\fP) can be abbreviated to \fBR\fP.

.ip "\fBType\fP \ \"

Identical to the

.b Print

command.

\fBType\fP can be abbreviated to \fBT\fP.

.ip "\fBAlias\fP \ \"

Define a name to stand for a set of other names.

This is used when you want to send messages to a certain group of people and want to avoid retyping their names.

For example

.(l

alias project john sue willie kathryn

.)l

creates an alias

.i project

which expands to the four people John, Sue, Willie, and Kathryn.

If no arguments are given, all currently-defined aliases are printed.

If one argument is given, that alias is printed (if it exists).

\fBAlias\fP can be abbreviated to \fBa\fP.



`.ip "\fBalternates\fP\ \"`

If you have accounts on several machines, you may find it convenient to use `/etc/mail/aliases` on all the machines except one to direct your mail to a single account.

The

`.b alternates`

command is used to inform

`.i Mail`

that each of these other addresses is really

`.i you .`

`.i Alternates`

takes a list of user names and remembers that they are all actually you.

When you

`.b reply`

to messages that were sent to one of these alternate names,

`.i Mail`

will not bother to send a copy of the message to this other address (which would simply be directed back to you by the alias mechanism).

If

`.i alternates`

is given no argument, it lists the current set of alternate names.

`.b Alternates`

is usually used in the `.mailrc` file.

`\fBalternates\fP` can be abbreviated to `\fBalt\fP`.

`.ip "\fBchdir\fP\ \"`

The

`.b chdir`

command allows you to change your current directory.

`.b Chdir`

takes a single argument, which is taken to be the pathname of the directory to change to. If no argument is given,

`.b chdir`

changes to your home directory.

`\fBChdir\fP` can be abbreviated to `\fBc\fP`.

`.ip "\fBcopy\fP\ \"`

The

`.b copy`

command does the same thing that

`.b save`

does, except that it does not mark the messages it is used on for deletion when you quit.

`\fBCopy\fP` can be abbreviated to `\fBco\fP`.

`.ip "\fBdelete\fP\ \"`

Deletes a list of messages. Deleted messages can be reclaimed with the

`.b undelete`

command.

`\fBDelete\fP` can be abbreviated to `\fBd\fP`.



.ip "\fBdp\fP or \fBdt\fP\ \"

These

commands delete the current message and print the next message.

They are useful for quickly reading and disposing of mail.

If there is no next message, \fIMail\fP says ``No more messages."

.ip "\fBedit\fP\ \"

To edit individual messages using the text editor, the

.b edit

command is provided. The

.b edit

command takes a list of messages as described under the

.b type

command and processes each by writing it into the file

Message\c

.i x

where

.i x

is the message number being edited and executing the text editor on it.

When you have edited the message to your satisfaction, write the message

out and quit, upon which

.i Mail

will read the message back and remove the file.

.b Edit

can be abbreviated to

.b e .

.ip "\fBelse\fP\ \"

Marks the end of the then-part of an

.b if

statement and the beginning of the

part to take effect if the condition of the

.b if

statement is false.

.ip "\fBendif\fP\ \"

Marks the end of an

.b if

statement.

.ip "\fBexit\fP or \fBxit\fP\ \"

Leave

.i Mail

without updating the system mailbox or the file you were reading.

Thus, if you accidentally delete several messages, you can use

.b exit

to avoid scrambling your mailbox.

\fBExit\fP can be abbreviated to \fBex\fP or \fBx\fP.

.ip "\fBfile\fP\ \"

The same as

.b folder .

\fBFile\fP can be abbreviated to \fBfi\fP.



.ip "\fBfolders\fP\ \ "

List the names of the folders in your folder directory.

.ip "\fBfolder\fP\ \ "

The

.b folder

command switches to a new mail file or folder. With no arguments, it tells you which file you are currently reading. If you give it an argument, it will write out changes (such as deletions) you have made in the current file and read the new file.

Some special conventions are recognized for the name:

.(b

.TS

center;

c c

l a.

Name Meaning

—

# Previous file read

% Your system mailbox

%name \fIName\fP's system mailbox

& Your ~/mbox file

+folder A file in your folder directory

.TE

.)b

\fBFolder\fP can be abbreviated to \fBfo\fP.

.ip "\fBfrom\fP\ \ "

The

.b from

command takes a list of messages and prints out the header lines for each one; hence

.(l

from joe

.)l

is the easy way to display all the message headers from \\*(lqjoe.\\*(rq

\fBFrom\fP can be abbreviated to \fBf\fP.

.ip "\fBheaders\fP\ \ "

When you start up

.i Mail

to read your mail, it lists the message headers that you have.

These headers tell you who each message is from, when they were received, how many lines and characters each message is, and the

.q "Subject:"

header field of each message, if present. In addition,

.i Mail

tags the message header of each message that has been the object of the

.b preserve

command with a



.q P.  
 Messages that have been  
 .b saved  
 or  
 .b written  
 are flagged with a  
 .q \*.  
 Finally,  
 .b deleted  
 messages are not printed at all. If you wish to reprint the current  
 list of message headers, you can do so with the  
 .b headers  
 command. The  
 .b headers  
 command (and thus the initial header listing)  
 only lists the first so many message headers.  
 The number of headers listed depends on the speed of your  
 terminal.

.i Mail  
 maintains a notion of the current  
 .q window  
 into your messages for the purposes of printing headers.  
 Use the  
 .b z  
 command to move forward a window,  
 and  
 .b z-  
 to move back a window.  
 You can move  
 .i Mail's  
 notion of the current window directly to a particular message by  
 using, for example,  
 .(l  
 headers 40  
 .)l  
 to move  
 .i Mail's  
 attention to the messages around message 40.  
 \fBHeaders\fP can be abbreviated to \fBh\fP.  
 .ip "\fBhelp\fP\ \ "  
 Print a brief and usually out of date help message about the commands  
 in  
 .i Mail .  
 The  
 .i man  
 page for  
 .i mail  
 is usually more up-to-date than either the help message or this manual.



It is also a synonym for \fB?\fP.

```
.ip "\fBhold\fP\ \"
```

Arrange to hold a list of messages in the system mailbox, instead of moving them to the file

```
.i mbox
```

in your home directory. If you set the binary option

```
.i hold ,
```

this will happen by default.

It does not override the \fBdelete\fP command.

\fBHold\fP can be abbreviated to \fBho\fP.

```
.ip "\fBif\fP\ \"
```

Commands in your

```
.q .mailrc
```

file can be executed conditionally depending on whether you are sending or receiving mail with the

```
.b if
```

command. For example, you can do:

```
.(l
```

```
if receive
```

```
\fIcommands\fP...
```

```
endif
```

```
.)l
```

```
An
```

```
.b else
```

form is also available:

```
.(l
```

```
if send
```

```
\fIcommands\fP...
```

```
else
```

```
\fIcommands\fP...
```

```
endif
```

```
.)l
```

Note that the only allowed conditions are

```
.b receive
```

```
and
```

```
.b send .
```

```
.ip "\fBignore\fP\ \"
```

```
.b N.B.:
```

```
.i Ignore
```

has been superseded by

```
.i retain .
```

```
.br
```

Add the list of header fields named to the

```
.i "ignore list" .
```

Header fields in the ignore list are not printed on your

terminal when you print a message. This allows you to suppress

printing of certain machine-generated header fields, such as

```
.i Via
```



which are not usually of interest. The

.b Type

and

.b Print

commands can be used to print a message in its entirety, including ignored fields.

If

.b ignore

is executed with no arguments, it lists the current set of ignored fields.

.ip "\fBinc\fP\ \"

Incorporate any new messages that have arrived while mail is being read.

The new messages are added to the end of the message list,

and the current message is reset to be the first new mail message.

This does not renumber the existing message list, nor does it cause any changes made so far to be saved.

.ip "\fBlist\fP\ \"

List the valid

.i Mail

commands.

\fBlist\fP can be abbreviated to \fBl\fP.

.. .ip \fBlocal\fP

.. Define a list of local names for this host. This command is useful

.. when the host is known by more than one name. Names in the list

.. may be qualified by the domain of the host. The first name on the local

.. list is the

.. .i distinguished

.. name of the host.

.. The names on the local list are used by

.. .i Mail

.. to decide which addresses are local to the host.

.. For example:

.. .(l

.. local ucbarpa.BERKELEY.ARPA arpa.BERKELEY.ARPA \\\

.. arpavax.BERKELEY.ARPA r.BERKELEY.ARPA \\\

.. ucb-arpa.ARPA

.. .)l

.. From this list we see that

.. .i "fred@ucbarpa.BERKELEY.ARPA",

.. .i "harold@arpa.BERKELEY",

.. and

.. .i "larry@r"

.. are all addresses of users on the local host.

.. The

.. .b local

.. command is usually not used by general users since it is designed for

.. local configuration; it is usually found in the file /usr/lib/Mail.rc.

.ip "\fBmail\fP\ \"

Send mail to one or more people. If you have the



.i ask

option set,

.i Mail

will prompt you for a subject to your message. Then you can type in your message, using tilde escapes as described in section 4 to edit, print, or modify your message. To signal your satisfaction with the message and send it, type <Control-D> at the beginning of a line, or a . alone on a line if you set the option

.i dot .

To abort the message, type two interrupt characters (Control-C by default) in a row or use the

.b ~q

or

.b ~x

escapes.

The \fBmail\fP command can be abbreviated to \fBm\fP.

.ip "\fBmbox\fP \ "

Indicate that a list of messages be sent to

.i mbox

in your home directory when you quit. This is the default action for messages if you do

.i not

have the

.i hold

option set.

.ip "\fBmore\fP \ "

Takes a message list and invokes the pager on that list.

.ip "\fBnext\fP or \fB+\fP \ "

The

.b next

command goes to the next message and types it. If given a message list,

.b next

goes to the first such message and types it. Thus,

.(l

next root

.)l

goes to the next message sent by

.q root

and types it. The

.b next

command can be abbreviated to simply a newline, which means that one can go to and type a message by simply giving its message number or one of the magic characters

.q "^"

.q "."

or

.q "\$".

Thus,



.(l  
 \&.  
 ).l  
 prints the current message and  
 .(l  
 4  
 ).l  
 prints message 4, as described previously.  
 \fBNext\fP can be abbreviated to \fBn\fP.  
 .ip "\fBpreserve\fP\ \ "  
 Same as  
 .b hold .  
 Cause a list of messages to be held in your system mailbox when you quit.  
 \fBPreserve\fP can be abbreviated to \fBpre\fP.  
 .ip "\fBprint\fP\ \ "  
 Print the specified messages. If the  
 .b crt  
 variable is set, messages longer than the number of lines it indicates  
 are paged through the command specified by the \fBPAGER\fP variable.  
 The \fBprint\fP command can be abbreviated to \fBp\fP.  
 .ip "\fBquit\fP\ \ "  
 Terminates the session, saving all undeleted, unsaved and unwritten messages  
 in the user's \fImbox\fP file in their login directory  
 (messages marked as having been read), preserving all  
 messages marked with \fBhold\fP or \fBpreserve\fP or never referenced  
 in their system mailbox.  
 Any messages that were deleted, saved, written, or saved to \fImbox\fP are  
 removed from their system mailbox.  
 If new mail has arrived during the session, the message  
 ``You have new mail" is given. If given while editing a mailbox file  
 with the \fB\~f\fP flag, then the edit file is rewritten.  
 A return to the Shell is effected, unless the rewrite of edit file fails,  
 in which case the user can escape with the \fBexit\fP command.  
 \fBQuit\fP can be abbreviated to \fBq\fP.  
 .ip "\fBreply\fP or \fBrespond\fP\ \ "  
 Frame a reply to a single message.  
 The reply will be sent to the  
 person who sent you the message (to which you are replying), plus all  
 the people who received the original message, except you. You can  
 add people using the \fB~t\fP, \fB~c\fP, and \fB~b\fP  
 tilde escapes. The subject in your reply is formed by prefacing the  
 subject in the original message with  
 .q "Re:"  
 unless it already began thus.  
 If the original message included a  
 .q "reply-to"  
 header field, the reply will go  
 .i only



to the recipient named by

.q "reply-to."

You type in your message using the same conventions available to you through the

.b mail

command.

The \fBreply\fP (and \fBrespond\fP) command can be abbreviated to \fBr\fP.

.ip "\fBretain\fP \ "

Add the list of header fields named to the \fIretained list\fP.

Only the header fields in the retain list

are shown on your terminal when you print a message.

All other header fields are suppressed.

The

.b Type

and

.b Print

commands can be used to print a message in its entirety.

If

.b retain

is executed with no arguments, it lists the current set of retained fields.

.ip "\fBsave\fP \ "

It is often useful to be able to save messages on related topics in a file. The

.b save

command gives you the ability to do this. The

.b save

command takes as an argument a list of message numbers, followed by the name of the file in which to save the messages. The messages are appended to the named file, thus allowing one to keep several messages in the file, stored in the order they were put there.

The filename in quotes, followed by the line

count and character count is echoed on the user's terminal.

An example of the

.b save

command relative to our running example is:

.(l

s 1 2 tuitionmail

.)l

.b Saved

messages are not automatically saved in

.i mbox

at quit time, nor are they selected by the

.b next

command described above, unless explicitly specified.

\fBSave\fP can be abbreviated to \fBs\fP.

.ip "\fBsaveignore\fP \ "

\fBsaveignore\fP is to \fBsave\fP what \fBignore\fP is to \fBprint\fP



and \fBtype\fR.

Header fields thus marked are filtered out when saving a message by \fBsave\fP or when automatically saving to \fImbox\fP.

```
.ip "\fBsaveretain\fP \ "
```

\fBsaveretain\fP is to \fBsave\fP what \fBretain\fP is to \fBprint\fP and \fBtype\fR.

Header fields thus marked are the only ones saved with a message when saving by \fBsave\fP or when automatically saving to \fImbox\fP.

\fBsaveretain\fP overrides \fBsaveignore\fP.

```
.ip "\fBset\fP \ "
```

Set an option or give an option a value. Used to customize

.i Mail .

Section 5.3 contains a list of the options. Options can be

.i binary ,

in which case they are

.i on

or

.i off ,

or

.i valued .

To set a binary option

.i option

.i on ,

do

```
.(l
```

set option

```
.)l
```

To give the valued option

.i option

the value

.i value ,

do

```
.(l
```

set option=value

```
.)l
```

There must be no space before or after the ``=" sign.

If no arguments are given, all variable values are printed.

Several options can be specified in a single

.b set

command.

\fBSet\fP can be abbreviated to \fBse\fP.

```
.ip "\fBshell\fP \ "
```

The

.b shell

command allows you to

escape to the shell.

.b Shell

invokes an interactive shell and allows you to type commands to it.



When you leave the shell, you will return to

.i Mail .

The shell used is a default assumed by

.i Mail ;

you can override this default by setting the valued option

.q SHELL,

eg:

.(l

set SHELL=/bin/csh

.)l

\fBShell\fP can be abbreviated to \fBsh\fP.

.ip "\fBsize\fP \ \"

Takes a message list and prints out the size in characters of each message.

.ip "\fBsource\fP \ \"

The

.b source

command reads

.i mail

commands from a file. It is useful when you are trying to fix your

.q .mailrc

file and you need to re-read it.

\fBSource\fP can be abbreviated to \fBso\fP.

.ip "\fBtop\fP \ \"

The

.b top

command takes a message list and prints the first five lines of each addressed message.

If you wish, you can change the number of lines that

.b top

prints out by setting the valued option

.q "toplines."

On a CRT terminal,

.(l

set topline=10

.)l

might be preferred.

\fBTop\fP can be abbreviated to \fBto\fP.

.ip "\fBtype\fP \ \"

Same as \fBprint\fP.

Takes a message list and types out each message on the terminal.

The \fBtype\fP command can be abbreviated to \fBt\fP.

.ip "\fBunalias\fP \ \"

Takes a list of names defined by \fBalias\fP commands and discards the remembered groups of users.

The group names no longer have any significance.

.ip "\fBundelete\fP \ \"

Takes a message list and marks each message as \fBnot\fP



being deleted.

\fBUndelete\fP can be abbreviated to \fBu\fP.

.ip "\fBunread\fP\ \ "

Takes a message list and marks each message as

.i not

having been read.

\fBUnread\fP can be abbreviated to \fBU\fP.

.ip "\fBunset\fP\ \ "

Takes a list of option names and discards their remembered values;  
the inverse of \fBset\fP.

.ip "\fBvisual\fP\ \ "

It is often useful to be able to invoke one of two editors,  
based on the type of terminal one is using. To invoke  
a display oriented editor, you can use the

.b visual

command. The operation of the

.b visual

command is otherwise identical to that of the

.b edit

command.

.ne 2v+\n(psu

.sp \n(psu

Both the

.b edit

and

.b visual

commands assume some default text editors.

The default for

.q EDITOR

is

.i /usr/bin/ex .

The default for

.q VISUAL

is

.i /usr/bin/vi .

These default editors can be overridden by the valued options

.q EDITOR

and

.q VISUAL

for the standard and screen editors. You might want to do:

.(l

set EDITOR=/bin/ed VISUAL=/usr/bin/mg

.)l

\fBVisual\fP can be abbreviated to \fBv\fP.

.ip "\fBwrite\fP\ \ "

The

.b save

command always writes the entire message, including the headers,



into the file. If you want to write just the message itself, you can use the

```
.b write
```

command. The

```
.b write
```

command has the same syntax as the

```
.b save
```

command, and can be abbreviated to simply

```
.b w .
```

Thus, we could write the second message by doing:

```
.(l
```

```
w 2 file.c
```

```
.)l
```

As suggested by this example, the

```
.b write
```

command is useful for such tasks as sending and receiving source program text over the message system.

The filename in quotes, followed by additional file information, is echoed on the user's terminal.

```
.ip "\fBz\fp\ \"
```

```
.i Mail
```

presents message headers in windowfuls as described under the

```
.b headers
```

command.

You can move

```
.i Mail's
```

attention forward to the next window by giving the

```
.(l
```

```
z+
```

```
.)l
```

command. Analogously, you can move to the previous window with:

```
.(l
```

```
z\-
```

```
.)l
```

```
.sh 2 "Custom options"
```

```
.pp
```

Throughout this manual, we have seen examples of binary and valued options.

This section describes each of the options in alphabetical order, including some that you have not seen yet.

To avoid confusion, please note that the options are either

all lower case letters or all upper case letters. When I start a sentence such as:

```
.q "Ask"
```

causes

```
.i Mail
```

to prompt you for a subject header,

I am only capitalizing



.q ask  
as a courtesy to English.

.ip "\fBEDITOR\fP\ \"  
The valued option

.q EDITOR  
defines the pathname of the text editor to be used in the

.b edit  
command and ~e escape.  
If not defined,  
.i /usr/bin/ex  
is used.

.ip "\fBLISTER\fP\ \"  
Pathname of the directory lister to use in the \fBfolders\fP command.  
Default is \fI/bin/ls\fP.

.ip "\fBMBOX\fP\ \"  
The name of the \fImbox\fP file.  
It can be the name of a folder.  
The default is ``mbox" in the user's home directory.

.ip "\fBPAGER\fP\ \"  
Pathname of the program to use for paginating output when  
it exceeds \fIcrt\fP lines.  
A default paginator is used if this option is not defined.

.ip "\fBSHELL\fP\ \"  
The valued option

.q SHELL  
gives the path name of your shell. This shell is used for the

.b !  
command and ~! escape. In addition, this shell expands  
file names with shell metacharacters like \* and ? in them.

.ip "\fBVISUAL\fP\ \"  
The valued option

.q VISUAL  
defines the pathname of the screen editor to be used in the

.b visual  
command  
and ~v escape.  
If not defined,  
.i /usr/bin/vi  
is used.

.ip "\fBappend\fP\ \"  
The

.q append  
option is binary and  
causes messages saved in

.i mbox  
to be appended to the end rather than prepended.  
Normally, \fIMail\fP will put messages in \fImbox\fP  
in the same order that the system puts messages in your system mailbox.



By setting  
`.q append`,  
you are requesting that  
`.i mbox`  
be appended to regardless. It is in any event quicker to append.  
`.ip "\fBask\fP\ \"`  
`.q "Ask"`  
is a binary option which  
causes  
`.i Mail`  
to prompt you for the subject of each message you send.  
If you respond with simply a newline, no subject field will be sent.  
`.ip "\fBaskbcc\fP\ \"`  
`.q Askbcc`  
is a binary option which  
causes you to be prompted for additional blind carbon copy recipients at the  
end of each message. Responding with a newline shows your  
satisfaction with the current list.  
`.ip "\fBaskcc\fP\ \"`  
`.q Askcc`  
is a binary option which  
causes you to be prompted for additional carbon copy recipients at the  
end of each message. Responding with a newline shows your  
satisfaction with the current list.  
`.ip "\fBautoinc\fP\ \"`  
Causes new mail to be automatically incorporated when it arrives.  
Setting this is similar to issuing the `\fBinc\fP` command at each prompt,  
except that the current message is not reset when new mail arrives.  
`.ip "\fBautoprint\fP\ \"`  
`.q Autoprint`  
is a binary option which  
causes the  
`.b delete`  
command to behave like  
`.b dp`  
\\*- thus, after deleting a message, the next one will be typed  
automatically. This is useful when quickly scanning and deleting  
messages in your mailbox.  
`.ip "\fBcrt\fP\ \"`  
The valued option  
`.I crt`  
is used as a threshold to determine how long a message must  
be before  
`.b PAGER`  
is used to read it.  
`.ip "\fBdebug\fP\ \"`  
The binary option  
`.q debug`



causes debugging information to be displayed. Use of this option is the same as using the `\fB\-d\fP` command line flag.

`.ip "\fBdot\fP \ "`

`.q Dot`

is a binary option which, if set, causes

`.i Mail`

to interpret a period alone on a line as the terminator of the message you are sending.

`.ip "\fBescape\fP \ "`

To allow you to change the escape character used when sending mail, you can set the valued option

`.q escape.`

Only the first character of the

`.q escape`

option is used, and it must be doubled if it is to appear as the first character of a line of your message. If you change your escape character, then `~` loses all its special meaning, and need no longer be doubled at the beginning of a line.

`.ip "\fBfolder\fP \ "`

The name of the directory to use for storing folders of messages.

If this name begins with a ``/`

`.i Mail`

considers it to be an absolute pathname; otherwise, the folder directory is found relative to your home directory.

`.ip "\fBhold\fP \ "`

The binary option

`.q hold`

causes messages that have been read but not manually dealt with to be held in the system mailbox. This prevents such messages from being automatically swept into your `\fImbox\fP` file.

`.ip "\fBignore\fP \ "`

The binary option

`.q ignore`

causes `<Control-C>` characters from your terminal to be ignored and echoed as `@`'s while you are sending mail. `<Control-C>` characters retain their original meaning in

`.i Mail`

command mode.

Setting the

`.q ignore`

option is equivalent to supplying the

`.b \-i`

flag on the command line as described in section 6.

`.ip "\fBignoreeof\fP \ "`

An option related to

`.q dot`

is

`.q ignoreeof ,`



which makes

.i Mail

refuse to accept a <Control-D> as the end of a message.

.q Ignoreeof

also applies to

.i Mail

command mode.

.ip "\fBindentprefix\fP\ \ "

String used by the \fB~m\fP tilde escape for indenting messages, in place of the normal tab character (^T).

Be sure to quote the value if it contains spaces or tabs.

.ip "\fBkeep\fP\ \ "

The

.q keep

option causes

.i Mail

to truncate your system mailbox instead of deleting it when it is empty. This is useful if you elect to protect your mailbox, which you would do with the shell command:

.(l

chmod 600 /var/mail/yourname

.)l

where

.i yourname

is your login name. If you do not do this, anyone can probably read your mail, although people usually don't.

.ip "\fBkeepsave\fP\ \ "

When you

.b save

a message,

.i Mail

usually discards it when you

.b quit .

To retain all saved messages, set the

.q keepsave

option.

.ip "\fBmetoo\fP\ \ "

When sending mail to an alias,

.i Mail

makes sure that if you are included in the alias, that mail will not be sent to you. This is useful if a single alias is being used by all members of the group. If however, you wish to receive a copy of all the messages you send to the alias, you can set the binary option

.q metoo.

.ip "\fBnoheader\fP\ \ "

The binary option

.q noheader

suppresses the printing of the version and headers when



.i Mail  
 is first invoked. Setting this option is the same as using  
 .b \-N  
 on the command line.  
 .ip "\fBnosave\fP\ \"  
 Normally,  
 when you abort a message with two <Control-C>'s,  
 .i Mail  
 copies the partial letter to the file  
 .q dead.letter  
 in your home directory. Setting the binary option  
 .q nosave  
 prevents this.  
 .ip "\fBReplyall\fP\ \"  
 Reverses the sense of  
 .i reply  
 and  
 .i Reply  
 commands.  
 .ip "\fBquiet\fP\ \"  
 The binary option  
 .q quiet  
 suppresses the printing of the version when  
 .i Mail  
 is first invoked,  
 as well as printing the for example  
 .q "Message 4:"  
 from the  
 .b type  
 command.  
 .ip "\fBrecord\fP\ \"  
 If you love to keep records, then the  
 valued option  
 .q record  
 can be set to the name of a file to save your outgoing mail.  
 Each new message you send is appended to the end of the file.  
 .ip "\fBscreen\fP\ \"  
 When  
 .i Mail  
 initially prints the message headers, it determines the number to  
 print by looking at the speed of your terminal. The faster your  
 terminal, the more it prints.  
 The valued option  
 .q screen  
 overrides this calculation and  
 specifies how many message headers you want printed.  
 This number is also used for scrolling with the  
 .b z



command.

```
.ip "\fBsearchheaders\fP\ \"
```

If this option is set, then a message-list specifier in the form ``x:y" will expand to all messages containing the substring `y' in the header field `x'.

The string search is case insensitive.

If `x' is omitted, it will default to the ``Subject" header field.

The form ``to:y" is a special case, and will expand to all messages containing the substring `y' in the ``To", ``Cc", or ``Bcc" header fields.

The check for ``to" is case sensitive, so that ``To:y" can be used to limit the search for `y' to just the ``To:" field.

```
.ip "\fBsendmail\fP\ \"
```

To use an alternate mail delivery system, set the

```
.q sendmail
```

option to the full pathname of the program to use. Note: this is not for everyone! Most people should use the default delivery system.

```
.ip "\fBtoplines\fP\ \"
```

The valued option

```
.q topline
```

defines the number of lines that the

```
.q top
```

command will print out instead of the default five lines.

```
.ip "\fBverbose\fP\ \"
```

The binary option "verbose" causes

```
.i Mail
```

to invoke sendmail with the

```
.b \-v
```

flag, which causes it to go into verbose mode and announce expansion of aliases, etc. Setting the "verbose" option is equivalent to invoking

```
.i Mail
```

with the

```
.b \-v
```

flag as described in section 6.

set append dot save asksub

ignore Received Message-Id Resent-Message-Id Status Mail-From Return-Path Via

```
.\" $OpenBSD: mail8.nr,v 1.5 2004/06/04 00:04:54 jmc Exp $
```

```
.\"
```

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.\" SUCH DAMAGE.
.\"
.\" @(#)mail8.nr 8.2 (Berkeley) 5/16/94
.\"
.sh 1 "Glossary"
.pp
This section contains the definitions of a few phrases
peculiar to
.i Mail .
.ip "\fIalias\fP"
An alternative name for a person or list of people.
.ip "\fIflag\fP"
An option, given on the command line of
.i Mail ,
prefaced with a \-. For example,
.b \-f
is a flag.
.ip "\fIheader field\fP"
At the beginning of a message, a line which contains information
that is part of the structure of the message. Popular header fields
include
.i to ,
.i cc ,
and
.i subject .
.ip "\fImail\ \fP"
A collection of messages. Often used in the phrase,
.q "Have you read your mail?"
.ip "\fImailbox\fP"
The place where your mail is stored, typically in the directory
/var/mail.
.ip "\fImessage\fP"

```



A single letter from someone, initially stored in your

.i mailbox .

.ip "\fImessage list\fP"

A string used in

.i Mail

command mode to describe a sequence of messages.

.ip "\fIoption\fP"

A piece of special purpose information used to tailor

.i Mail

to your taste.

Options are specified with the

.b set

command.

.\n \$OpenBSD: mail0.nr,v 1.4 2004/06/04 00:04:54 jmc Exp \$

.\n

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.\n

.\n @(#)mail0.nr 8.1 (Berkeley) 6/8/93

.\n

.if n {\

.po 5n

.ll 70n

.\}



```

.eh 'USD:7-%"Mail Reference Manual'
.oh 'Mail Reference Manual"USD:7-%'
.if n \
.nr fs .5v
.\" .he 'Mail Reference Manual'\n(mo/\n(dy/\n(yr%'
.tp
.sp 1.0i
.sz 12
.rb
.(l C
MAIL REFERENCE MANUAL
.)l
.sz 10
.sp 2
.i
.(l C
Kurt Shoens
.)l
.r
.(l C
Revised by
.)l
.(l C
.i
Craig Leres\ \c
.r
and\ \c
.i
Mark Andrews
.)l
.r
.(l C
Version 5.5

*(td
.)l
.pn 2
.\" $OpenBSD: mail6.nr,v 1.6 2006/03/04 16:18:06 miod Exp $
.\"
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.\"
.\" @(#)mail6.nr 8.2 (Berkeley) 5/16/94
.\"
.sh 1 "Command line options"
.pp
This section describes command line options for
.i Mail
and what they are used for.
.ip "\-b list\ \"
Send blind carbon copies to list.
.ip "\-c list\ \"
Send carbon copies to list of users.
List should be a comma separated list of names.
.ip "\-f file\ \"
Show the messages in
.i file
instead of your system mailbox. If
.i file
is omitted,
.i Mail
reads
.i mbox
in your home directory.
.ip \-I
Forces mail to run in interactive mode,
even when input is not a terminal.
In particular, the special \fB~\fP command character,
used when sending mail, is only available interactively.
.ip \-i
Ignore tty interrupt signals.

```



This is particularly useful when using mail on noisy phone lines.

`.ip \-N`

Suppress the initial printing of headers.

`.ip \-n`

Inhibit reading of `/etc/mail.rc` upon startup.

`.ip "\-s string"`

Used for sending mail.

`.i String`

is used as the subject of the message being composed. If

`.i string`

contains blanks, you must surround it with quote marks.

`.ip "\-u name"`

Read

`.i names's`

mail instead of your own. Unwitting others often neglect to protect their mailboxes, but discretion is advised. Essentially,

`.b "\-u user"`

is a shorthand way of doing

`.b "\-f /var/mail/user".`

`.ip "\-v"`

Use the

`.b \-v`

flag when invoking `sendmail`. This feature may also be enabled by setting the option `"verbose"`.

`.pp`

The following command line flags are also recognized, but are intended for use by programs invoking

`.i Mail`

and not for people.

`.ip \-d`

Turn on debugging information. Not of general interest.

`.ip "\-T file"`

Arrange to print on

`.i file`

the contents of the

`.i article-id`

fields of all messages that were either read or deleted.

`.b \-T`

is for the

`.i readnews`

program and should NOT be used for reading your mail.

`.\ " $OpenBSD: mail9.nr,v 1.8 2009/07/29 18:15:38 martynas Exp $`

`.\ "`

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.\"
.\" @(#)mail9.nr 8.2 (Berkeley) 5/16/94
.\"
.sh 1 "Summary of commands, options, and escapes"
.pp
This section gives a quick summary of the
.i Mail
commands, binary and valued options, and tilde escapes.
.pp
The following table describes the commands:
.TS
center ;
c ci
lb l.
Command Description
-
+ Same as \fBnext\fP
- Back up to previous message
? Print brief summary of \fIMail\fP commands
! Single command escape to shell
Print Type message with ignored fields
Reply Reply to author of message only
Respond Same as \fBReply\fP
Type Type message with ignored fields
alias Define an alias as a set of user names
alternates List other names you are known by
chdir Change working directory, home by default

```



copy Copy a message to a file or folder  
 delete Delete a list of messages  
 dp Same as \fBdt\fP  
 dt Delete current message, type next message  
 edit Edit a list of messages  
 else Start of else part of conditional; see \fBif\fP  
 endif End of conditional statement; see \fBif\fP  
 exit Leave mail without changing anything  
 file Interrogate/change current mail file  
 folder Same as \fBfile\fP  
 folders List the folders in your folder directory  
 from List headers of a list of messages  
 headers List current window of messages  
 help Same as \fB?\fP  
 hold Same as \fBpreserve\fP  
 if Conditional execution of \fIMail\fP commands  
 ignore Set/examine list of ignored header fields  
 inc Incorporate new messages  
 list List valid \fIMail\fP commands  
 mail Send mail to specified names  
 mbox Arrange to save a list of messages in \fImbox\fP  
 more Invoke pager on message list  
 next Go to next message and type it  
 preserve Arrange to leave list of messages in system mailbox  
 print Print messages  
 quit Leave \fIMail\fP; update system mailbox, \fImbox\fP as appropriate  
 reply Compose a reply to a message  
 respond Same as \fBreply\fP  
 retain Supersedes \fBignore\fP  
 save Append messages, headers included, on a file  
 saveignore List of headers to ignore when using the \fBsave\fP command  
 saveretain List of headers to retain when using the \fBsave\fP command  
 set Set binary or valued options  
 shell Invoke an interactive shell  
 size Prints out size of message list  
 source Read \fIMail\fP commands from a file  
 top Print first so many (5 by default) lines of list of messages  
 type Same as \fBprint\fP  
 unalias Remove alias  
 undelete Undelete list of messages  
 unread Marks list of messages as not been read  
 unset Undo the operation of a \fBset\fP  
 visual Invoke visual editor on a list of messages  
 write Append messages to a file, don't include headers  
 xit Same as \fBexit\fP  
 z Scroll to next/previous screenful of headers  
 .TE  
 .(b



.PP

The following table describes the options. Each option is shown as being either a binary or valued option.

.TS

center;

c ci ci

l ci l.

Option Type Description

—

EDITOR valued Pathname of editor for ~e and \fBedit\fP

LISTER valued Pathname of directory lister

MBOX valued Pathname of the \fImbox\fP file

PAGER valued Pathname of pager for \fBPrint\fP, \fBprint\fP, \fBType\fP and \fBtype\fP

SHELL valued Pathname of shell for \fBshell\fP, ~! and \fB!\fP

VISUAL valued Pathname of screen editor for ~v, \fBvisual\fP

append binary Always append messages to end of \fImbox\fP

ask binary Prompt user for Subject: field when sending

askbcc binary Prompt user for additional BCC's at end of message

askcc binary Prompt user for additional Cc's at end of message

autoinc binary Automatically incorporate new mail

autoprint binary Print next message after \fBdelete\fP

crt valued Minimum number of lines before using \fBPAGER\fP

debug binary Print out debugging information

dot binary Accept . alone on line to terminate message input

escape valued Escape character to be used instead of \ \ ~

folder valued Directory to store folders in

hold binary Hold messages in system mailbox by default

ignore binary Ignore <Control-C> while sending mail

ignoreeof binary Don't terminate letters/command input with \fB^D\fP

indentprefix valued String used for indenting messages

keep binary Don't unlink system mailbox when empty

keepsave binary Don't delete \fBsave\fPd messages by default

metoo binary Include sending user in aliases

noheader binary Suppress initial printing of version and headers

nosave binary Don't save partial letter in \fIdead.letter\fP

Replyall binary Reverses the sense of the \fB[Rr]eply\fP commands

quiet binary Suppress printing of \fIMail\fP version/message numbers

record valued File to save all outgoing mail in

screen valued Size of window of message headers for \fBz\fP, etc.

searchheaders binary Search string for message headers

sendmail valued Choose alternate mail delivery system

toplines valued Number of lines to print in \fBtop\fP

verbose binary Invoke sendmail with the \fB\-v\fP flag

.TE

.)b

.(b

.PP

The following table summarizes the tilde escapes available



while sending mail.

.TS

center;

c ci ci

l li l.

Escape Arguments Description

—	
~b name ...	Add names to "blind" Cc: list.
~c name ...	Add names to Cc: field.
~d	Read \fIdead.letter\fP into message.
~e	Invoke text editor on partial message.
~F messages	Same as ~f, but includes all headers.
~f messages	Read in messages.
~h	Edit the header fields.
~M messages	Same as ~m, but includes all headers.
~m messages	Read in messages, right shifted by a tab.
~p	Print (show) the message buffer.
~q	Abort message; optionally save copy to ~/dead.letter.
~r file   ~< file	Read a file into the message buffer.
~s string	Set Subject: field to \fIstring\fP.
~t name ...	Add names to To: field.
~v	Invoke display editor on message.
~w filename	Write message to file.
~x	Abort message; no copy is saved.
~?	Print a brief summary of tilde escapes.
~!command	Execute shell command.
~ command	Pipe message through \fIcommand\fP.
~:command   ~_command	Execute a \fIMail\fP command.
~~string	Quote a single tilde.
~.	Simulate end of file on input.

.TE

.)b

.(b

.pp

The following table shows the command line flags that

.i Mail

accepts:

.TS

center;

c c

l a.

Flag Description

—	
\-b \fIlist\fP	Send blind carbon copies to \fIlist\fP.
\-c \fIlist\fP	Send carbon copies to \fIlist\fP
\-d	Turn on debugging
\-f [\fIname\fP]	Show messages in \fIname\fP or \fI~/mbox\fP
\-I	Force \fIMail\fP to run in interactive mode



```

\i Ignore tty interrupt signals
\N Suppress the initial printing of headers
\N Inhibit reading of /etc/mail.rc
\s \fsubject\fP Use \fsubject\fP as subject in outgoing mail
\T \fifile\fP Article-id's of read/deleted messages to \fifile\fP
\U \fuser\fP Read \fuser\fP's mail instead of your own
\V Invoke sendmail with the \fB\-\fP flag
.TE
.b
.lp
Notes:
.b \-d
and
.b \-T
are not for human use.
.\" $OpenBSD: mail4.nr,v 1.6 2008/11/03 18:20:45 jmc Exp $
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.\" @(#)mail4.nr 8.2 (Berkeley) 5/16/94
.\"
.sh 1 "More about sending mail"
.sh 2 "Tilde escapes"

```



.pp

While typing in a message to be sent to others, it is often useful to be able to invoke the text editor on the partial message, print the message, execute a shell command, or do some other auxiliary function.

.i Mail

provides these capabilities through

.i "tilde escapes" ,

which consist of a tilde (~) at the beginning of a line, followed by a single character which indicates the function to be performed. For example, to print the text of the message so far, use:

.(l

~p

).l

which will print a line of dashes, the recipients of your message, and the text of the message so far.

Since

.i Mail

requires two consecutive <Control-C>'s to abort a letter, you can use a single <Control-C> to abort the output of ~p or any other ~ escape without killing your letter.

.pp

If you are dissatisfied with the message as it stands, you can invoke the text editor on it using the escape

.(l

~e

).l

which causes the message to be copied into a temporary file and an instance of the editor to be spawned. After modifying the message to your satisfaction, write it out and quit the editor.

.i Mail

will respond

by typing

.(l

(continue)

).l

after which you may continue typing text which will be appended to your message, or type <Control-D> to end the message.

A standard text editor is provided by

.i Mail .

You can override this default by setting the valued option

.q EDITOR

to something else. For example, you might prefer:

.(l

set EDITOR=/bin/ed

).l

.pp

Many systems offer a screen editor as an alternative to the standard



text editor, such as the

.i vi

editor from UC Berkeley,

or

.i mg ,

an emacs-like editor.

To use the screen, or

.i visual

editor, on your current message, you can use the escape,

.(l

~v

.)l

~v works like ~e, except that the screen editor is invoked instead.

A default screen editor is defined by

.i Mail .

If it does not suit you, you can set the valued option

.q VISUAL

to the path name of a different editor.

.pp

It is often useful to be able to include the contents of some

file in your message; the escape

.(l

~r filename

.)l

is provided for this purpose, and causes the named file to be appended to your current message.

.i Mail

complains if the file doesn't exist

or can't be read. If the read is successful, the number of lines and

characters appended to your message is printed, after which you may continue appending text. The filename may contain shell metacharacters like \* and ?

which are expanded according to the conventions of your shell.

.pp

As a special case of ~r, the escape

.(l

~d

.)l

reads in the file

.q dead.letter

in your home directory. This is often useful since

.i Mail

copies the text

of your message there when you abort a message with <Control-C>.

.pp

To save the current text of your message on a file you may use the

.(l

~w filename

.)l



escape.

.i Mail

will print out the number of lines and characters written to the file, after which you may continue appending text to your message. Shell metacharacters may be used in the filename, as in ~r and are expanded with the conventions of your shell.

.pp

If you are sending mail from within

.i Mail's

command mode

you can read a message sent to you into the message

you are constructing with the escape:

.(l

~m 4

).l

which will read message 4 into the current message, shifted right by one tab stop. You can name any non-deleted message, or list of messages. Messages can also be forwarded without shifting by a tab stop with ~f. This is the usual way to forward a message.

.pp

If, in the process of composing a message, you decide to add additional people to the list of message recipients, you can do so with the escape

.(l

~t name1 name2 ...

).l

You may name as few or many additional recipients as you wish. Note that the users originally on the recipient list will still receive the message; you cannot remove someone from the recipient list with ~t.

.pp

If you wish, you can associate a subject with your message by using the escape

.(l

~s Arbitrary string of text

).l

which replaces any previous subject with

.q "Arbitrary string of text."

The subject, if given, is sent near the top of the message prefixed with

.q "Subject:"

You can see what the message will look like by using ~p.

.pp

For political reasons, one occasionally prefers to list certain people as recipients of carbon copies of a message rather than direct recipients. The escape

.(l

~c name1 name2 ...

).l



adds the named people to the

.q "Cc:"

list, similar to ~t.

Again, you can execute ~p to see what the message will look like.

.pp

The escape

.(l

~b name1 name2 ...

).l

adds the named people to the

.q "Cc:"

list, but does not make the names visible in the

.q "Cc:"

line ("blind" carbon copy).

.pp

The recipients of the message together constitute the

.q "To:"

field, the subject the

.q "Subject:"

field, and the carbon copies the

.q "Cc:"

field. If you wish to edit these in ways impossible with the ~t, ~s, ~c and ~b escapes, you can use the escape

.(l

~h

).l

which prints

.q "To:"

followed by the current list of recipients and leaves the cursor

(or printhead) at the end of the line. If you type in ordinary

characters, they are appended to the end of the current list of

recipients. You can also use your erase character to erase back into

the list of recipients, or your kill character to erase them altogether.

Thus, for example, if your erase and kill characters are the standard

(on printing terminals) <Control-H> and <Control-U> keys,

.(l

~h

To: root kurt^H^H^H^Hbill

).l

would change the initial recipients

.q "root kurt"

to

.q "root bill."

When you type a newline,

.i Mail

advances to the

.q "Subject:"

field, where the same rules apply. Another newline brings you to



the  
`.q "Cc:"`  
 field, which may be edited in the same fashion. Another newline  
 brings you to the  
`.q "Bcc:"`  
 ("blind" carbon copy) field, which follows the same rules as the "Cc:"  
 field. Another newline  
 leaves you appending text to the end of your message. You can use  
`~p` to print the current text of the header fields and the body  
 of the message.

`.pp`  
 To effect a temporary escape to the shell, the escape  
`.(l`  
`~!command`  
`.)l`  
 is used, which executes  
`.i command`  
 and returns you to mailing mode without altering the text of  
 your message. If you wish, instead, to filter the body of your  
 message through a shell command, then you can use  
`.(l`  
`~|command`  
`.)l`  
 which pipes your message through the command and uses the output  
 as the new text of your message. If the command produces no output,  
`.i Mail`  
 assumes that something is amiss and retains the old version  
 of your message. A frequently-used filter is the command  
`.i fmt ,`  
 designed to format outgoing mail.

`.pp`  
 To effect a temporary escape to  
`.i Mail`  
 command mode instead, you can use the  
`.(l`  
`~:\fIMail command\fP`  
`.)l`  
 escape. This is especially useful for retyping the message you are  
 replying to, using, for example:  
`.(l`  
`~:t`  
`.)l`

It is also useful for setting options and modifying aliases.

`.pp`  
 If you wish abort the current message, you can use the escape  
`.(l`  
`~q`  
`.)l`



This will terminate the current message and return you to the shell (or \fIMail\fP if you were using the \fBmail\fP command).

If the \fBsave\fP option is set, the message will be copied to the file

```
.q dead.letter
```

in your home directory.

```
.pp
```

If you wish to abort the current message, without saving any copy of it whatsoever, even if the \fBsave\fP option is set, you can use the escape

```
.(l
```

```
~x
```

```
.)l
```

```
.pp
```

If you wish (for some reason) to send a message that contains a line beginning with a tilde, you must double it. Thus, for example,

```
.(l
```

```
~~This line begins with a tilde.
```

```
.)l
```

sends the line

```
.(l
```

```
~This line begins with a tilde.
```

```
.)l
```

```
.pp
```

Finally, the escape

```
.(l
```

```
~?
```

```
.)l
```

prints out a brief summary of the available tilde escapes.

```
.pp
```

On some terminals (particularly ones with no lower case) tilde's are difficult to type.

```
.i Mail
```

allows you to change the escape character with the

```
.q escape
```

option. For example, I set

```
.(l
```

```
set escape=]
```

```
.)l
```

and use a right bracket instead of a tilde. If I ever need to send a line beginning with right bracket, I double it, just as for ~. Changing the escape character removes the special meaning of ~.

```
.sh 2 "Network access"
```

```
.pp
```

This section describes how to send mail to people on other machines.

Recall that sending to a plain login name sends mail to that person on your machine. If your machine is directly (or sometimes, even,



indirectly) connected to the Internet, you can send messages to people on the Internet using a name of the form

.(l

name@host.domain

).l

where

.i name

is the login name of the person you're trying to reach,

.i host

is the name of the machine on the Internet,

and

.i domain

is the higher-level scope within which the hostname is known, e.g. EDU (for educational institutions), COM (for commercial entities), GOV (for governmental agencies), ARPA for many other things, BITNET or CSNET for those networks.

.pp

If your recipient logs in on a machine connected to yours by UUCP (the Bell Laboratories supplied network that communicates over telephone lines), sending mail can be a bit more complicated. You must know the list of machines through which your message must travel to arrive at his site. So, if his machine is directly connected to yours, you can send mail to him using the syntax:

.(l

host!name

).l

where, again,

.i host

is the name of the machine and

.i name

is the login name.

If your message must go through an intermediary machine first, you must use the syntax:

.(l

intermediary!host!name

).l

and so on. It is actually a feature of UUCP that the map of all the systems in the network is not known anywhere (except where people decide to write it down for convenience). Talk to your system administrator about good ways to get places; the

.i uuname

command will tell you systems whose names are recognized, but not which ones are frequently called or well-connected.

.pp

When you use the

.b reply

command to respond to a letter, there is a problem of figuring out the names of the users in the

.q "To:"



and

.q "Cc:"

lists

.i "relative to the current machine" .

If the original letter was sent to you by someone on the local machine, then this problem does not exist, but if the message came from a remote machine, the problem must be dealt with.

.i Mail

uses a heuristic to build the correct name for each user relative to the local machine. So, when you

.b reply

to remote mail, the names in the

.q "To:"

and

.q "Cc:"

lists may change somewhat.

.sh 2 "Special recipients"

.pp

As described previously, you can send mail to either user names or

.b alias

names. It is also possible to send messages directly to files or to programs, using special conventions. If a recipient name has a

`/' in it or begins with a `+', it is assumed to be the

path name of a file into which

to send the message. If the file already exists, the message is

appended to the end of the file. If you want to name a file in

your current directory (ie, one for which a `/' would not usually be needed) you can precede the name with `./'

So, to send mail to the file

.q memo

in the current directory, you can give the command:

.(l

% Mail ./memo

.)l

If the name begins with a `+', it is expanded into the full path name of the folder name in your folder directory.

This ability to send mail to files can be used for a variety of purposes, such as maintaining a journal and keeping a record of mail sent to a certain group of users. The second example can be done automatically by including the full pathname of the record file in the

.b alias

command for the group. Using our previous

.b alias

example, you might give the command:

.(l

alias project sam sally steve susan /usr/project/mail\_record

.)l



Then, all mail sent to "project" would be saved on the file  
`.q /usr/project/mail_record`  
as well as being sent to the members of the project. This file  
can be examined using  
`.i "Mail \-f" .`  
`.pp`  
It is sometimes useful to send mail directly to a program, for  
example one might write a project billboard program and want to access  
it using  
`.i Mail .`  
To send messages to the billboard program, one can send mail  
to the special name ``|billboard'` for example.  
`.i Mail`  
treats recipient names that begin with a ``|'` as a program to send  
the mail to. An  
`.b alias`  
can be set up to reference a ``|'` prefaced name if desired.  
`.i Caveats :`  
the shell treats ``|'` specially, so it must be quoted on the command  
line. Also, the ``|'` program' must be presented as a single argument to  
mail. The safest course is to surround the entire name with double  
quotes. This also applies to usage in the  
`.b alias`  
command. For example, if we wanted to alias ``rmsgs'` to ``rmsgs \-s'`  
we would need to say:  
`.(l`  
`alias rmsgs "| rmsgs -s"`  
`.)l`

# 1.401 iputils 20121221-4ubuntu1.1

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#### RECORD

Carriage\_Control carriage\_return  
Format stream\_If

## 1.403 sudo 1.8.9p5-1ubuntu1.4

### 1.403.1 Available under license :

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to [sudo@sudo.ws](mailto:sudo@sudo.ws).

Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom



Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
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Jackson, Richard L., Jr.  
Janssen, Mark  
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Marchionna, Michael D.  
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Pickett, Joel  
Plotnick, Alex  
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Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
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Wood, David



Zacarias, Gustavo  
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The following people have worked to translate sudo into other languages:

Blttermann, Mario  
Bogusz, Jakub  
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Diguez, Francisco  
Ferreira, Rafael  
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Jean-loup Gailly	Mark Adler
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# 1.404 libjpeg-turbo 1.3.0-Ubuntu2.1

## 1.404.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * jdmrgext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdmrgext.c
```

No license file was found, but licenses were detected in source scan.

```
;
; jsimdext.inc - common declarations
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
;
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
;
; Copyright (C) 1999-2006, MIYASAKA Masaru.
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```



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;

; [TAB8]

; =====

; System-dependent configurations

%ifdef WIN32 ; ----(nasm -fwin32 -DWIN32 ...)-----

; \* Microsoft Visual C++

; \* MinGW (Minimalist GNU for Windows)

; \* CygWin

; \* LCC-Win32

; -- segment definition --

;

%ifdef \_\_YASM\_VER\_\_

%define SEG\_TEXT .text align=16

%define SEG\_CONST .rdata align=16

%else

%define SEG\_TEXT .text align=16 public use32 class=CODE

%define SEG\_CONST .rdata align=16 public use32 class=CONST

%endif

%elifdef WIN64 ; ----(nasm -fwin64 -DWIN64 ...)-----

; \* Microsoft Visual C++

; -- segment definition --

;

%ifdef \_\_YASM\_VER\_\_

%define SEG\_TEXT .text align=16

%define SEG\_CONST .rdata align=16

%else

%define SEG\_TEXT .text align=16 public use64 class=CODE

%define SEG\_CONST .rdata align=16 public use64 class=CONST

%endif

%define EXTN(name) name ; foo() -> foo

%elifdef OBJ32 ; ----(nasm -fobj -DOBJ32 ...)-----

; \* Borland C++ (Win32)

; -- segment definition --

;

%define SEG\_TEXT .text align=16 public use32 class=CODE

%define SEG\_CONST .data align=16 public use32 class=DATA

%elifdef ELF ; ----(nasm -felf[64] -DELF ...)-----

; \* Linux

; \* \*BSD family Unix using elf format



```

; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --
;
#ifdef __x86_64__
#define SEG_TEXT .text progbits align=16
#define SEG_CONST .rodata progbits align=16
#else
#define SEG_TEXT .text progbits alloc exec nowrite align=16
#define SEG_CONST .rodata progbits alloc noexec nowrite align=16
#endif

; To make the code position-independent, append -DPIC to the commandline
;
#define GOT_SYMBOL __GLOBAL_OFFSET_TABLE_ ; ELF supports PIC
#define EXTN(name) name ; foo() -> foo

#ifdef AOUT ; ----(nasm -faout/aout -DAOUT ...)----
; * Older Linux using a.out format (nasm -f aout -DAOUT ...)
; * *BSD family Unix using a.out format (nasm -f aoutb -DAOUT ...)

; -- segment definition --
;
#define SEG_TEXT .text
#define SEG_CONST .data

; To make the code position-independent, append -DPIC to the commandline
;
#define GOT_SYMBOL __GLOBAL_OFFSET_TABLE_ ; BSD-style a.out supports PIC

#ifdef MACHO ; ----(nasm -fmacho -DMACHO ...)-----
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
#define SEG_TEXT .text ;align=16 ; nasm doesn't accept align=16. why?
#define SEG_CONST .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
#define PIC
#define GOT_SYMBOL __MACHO_PIC_ ; Mach-O style code-relative addressing

#else ; ----(Other case)-----

```



```

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

%endif ; -----

; =====

; -----
; Common types
;
%ifdef __x86_64__
%define POINTER qword ; general pointer type
%define SIZEOF_POINTER SIZEOF_QWORD ; sizeof(POINTER)
%define POINTER_BIT QWORD_BIT ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER dword ; general pointer type
%define SIZEOF_POINTER SIZEOF_DWORD ; sizeof(POINTER)
%define POINTER_BIT DWORD_BIT ; sizeof(POINTER)*BYTE_BIT
%endif

%define INT dword ; signed integer type
%define SIZEOF_INT SIZEOF_DWORD ; sizeof(INT)
%define INT_BIT DWORD_BIT ; sizeof(INT)*BYTE_BIT

%define FP32 dword ; IEEE754 single
%define SIZEOF_FP32 SIZEOF_DWORD ; sizeof(FP32)
%define FP32_BIT DWORD_BIT ; sizeof(FP32)*BYTE_BIT

%define MMWORD qword ; int64 (MMX register)
%define SIZEOF_MMWORD SIZEOF_QWORD ; sizeof(MMWORD)
%define MMWORD_BIT QWORD_BIT ; sizeof(MMWORD)*BYTE_BIT

; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_OWORD ; sizeof(XMMWORD)
%define XMMWORD_BIT OWORD_BIT ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE 1 ; sizeof(BYTE)
%define SIZEOF_WORD 2 ; sizeof(WORD)
%define SIZEOF_DWORD 4 ; sizeof(DWORD)
%define SIZEOF_QWORD 8 ; sizeof(QWORD)

```



```

%define SIZEOF_OWORD 16 ; sizeof(OWORD)

%define BYTE_BIT 8 ; CHAR_BIT in C
%define WORD_BIT 16 ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT 32 ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT 64 ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT 128 ; sizeof(OWORD)*BYTE_BIT

; -----
; External Symbol Name
;
%ifndef EXTN
%define EXTN(name) _ % + name ; foo() -> _foo
%endif

; -----
; Macros for position-independent code (PIC) support
;
%ifndef GOT_SYMBOL
%undef PIC
%endif

%ifdef PIC ; -----

%ifidn GOT_SYMBOL,_MACHO_PIC_ ; -----

; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.

SECTION SEG_CONST
const_base:

%define GOTOFF(got,sym) (got) + (sym) - const_base

%imacro get_GOT 1
; NOTE: this macro destroys ecx register.
call %%geteip
add ecx, byte (%%ref - $)
jmp short %%adjust
%%geteip:
mov ecx, POINTER [esp]
ret
%%adjust:
push ebp
xor ebp,ebp ; ebp = 0
%ifidni %1,ebx ; (%1 == ebx)
; db 0x8D,0x9C + jmp near const_base =
; lea ebx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,9C,E9,(offset32)

```



```

db 0x8D,0x9C ; 8D,9C
jmp near const_base ; E9,(const_base-%%ref)
%%ref:
%else ; (%1 != ebx)
; db 0x8D,0x8C + jmp near const_base =
; lea ecx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,8C,E9,(offset32)
db 0x8D,0x8C ; 8D,8C
jmp near const_base ; E9,(const_base-%%ref)
%%ref: mov %1, ecx
%endif ; (%1 == ebx)
pop ebp
%endmacro

```

```

%else ; GOT_SYMBOL != _MACHO_PIC_ -----

```

```

%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff

```

```

%imacro get_GOT 1
extern GOT_SYMBOL
call %%geteip
add %1, GOT_SYMBOL + $$ - $ wrt ..gotpc
jmp short %%done
%%geteip:
mov %1, POINTER [esp]
ret
%%done:
%endmacro

```

```

%endif ; GOT_SYMBOL == _MACHO_PIC_ -----

```

```

%imacro pushpic 1.nolist
push %1
%endmacro
%imacro poppic 1.nolist
pop %1
%endmacro
%imacro movpic 2.nolist
mov %1,%2
%endmacro

```

```

%else ; !PIC -----

```

```

%define GOTOFF(got,sym) (sym)

```

```

%imacro get_GOT 1.nolist
%endmacro
%imacro pushpic 1.nolist
%endmacro

```



```

%imacro poppic 1.nolist
%endmacro
%imacro movpic 2.nolist
%endmacro

%endif ; PIC -----

; -----
; Align the next instruction on {2,4,8,16,...}-byte boundary.
; ".balign n,,m" in GNU as
;
%define MSKLE(x,y) (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n) (($-(b)) & ((n)-1))

%imacro alignx 1-2.nolist 0xFFFF
%%bs: times MSKLE(FILLB(%%bs,%1),%2) & MSKLE(16,FILLB($,%1)) & FILLB($,%1) \
 db 0x90 ; nop
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/9 \
 db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7 \
 db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6 \
 db 0x8D,0xAD,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/4 \
 db 0x8D,0x6C,0x25,0x00 ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/3 \
 db 0x8D,0x6D,0x00 ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/2 \
 db 0x8B,0xED ; mov ebp,ebp
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/1 \
 db 0x90 ; nop
%endmacro

; Align the next data on {2,4,8,16,...}-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0 ; filling zeros
%endmacro

%ifdef __x86_64__

%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15

```



```

mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm6
sub rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm7
%endmacro

```

```

%imacro uncollect_args 0
movaps xmm7, XMMWORD [rsp]
add rsp, SIZEOF_XMMWORD
movaps xmm6, XMMWORD [rsp]
add rsp, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

```

```

%else

```

```

%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro

```

```

%imacro uncollect_args 0
pop r15
pop r14
pop r13

```



```
pop r12
pop r11
pop r10
%endmacro
```

```
%endif
```

```
%endif
```

```
; -----
; Defines picked up from the C headers
;
#include "jsimdcfg.inc"

; -----
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jsimdext.inc

No license file was found, but licenses were detected in source scan.

```
/*
 * cderror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/cderror.h

No license file was found, but licenses were detected in source scan.

```
/*
 * rdjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
```



\*  
\* This file contains a very simple stand-alone application that displays  
\* the text in COM (comment) markers in a JFIF file.  
\* This may be useful as an example of the minimum logic needed to parse  
\* JPEG markers.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/rdjpgcom.c

No license file was found, but licenses were detected in source scan.

/\*  
\* jsimd\_i386.c  
\*  
\* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB  
\* Copyright 2009-2011 D. R. Commander  
\*  
\* Based on the x86 SIMD extension for IJG JPEG library,  
\* Copyright (C) 1999-2006, MIYASAKA Masaru.  
\* For conditions of distribution and use, see copyright notice in jsimdext.inc  
\*  
\* This file contains the interface between the "normal" portions  
\* of the library and the SIMD implementations when running on a  
\* 32-bit x86 architecture.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jsimd\_i386.c

No license file was found, but licenses were detected in source scan.

/\*  
\* jmemsys.h  
\*  
\* Copyright (C) 1992-1997, Thomas G. Lane.  
\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This include file defines the interface between the system-independent  
\* and system-dependent portions of the JPEG memory manager. No other  
\* modules need include it. (The system-independent portion is jmemmgr.c;  
\* there are several different versions of the system-dependent portion.)  
\*  
\* This file works as-is for the system-dependent memory managers supplied  
\* in the IJG distribution. You may need to modify it if you write a  
\* custom memory manager. If system-dependent changes are needed in  
\* this file, the best method is to #ifdef them based on a configuration



\* symbol supplied in jconfig.h, as we have done with USE\_MSDOS\_MEMMGR  
\* and USE\_MAC\_MEMMGR.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jmemsys.h

No license file was found, but licenses were detected in source scan.

/\*

\* rdgif.c

\*

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains routines to read input images in GIF format.

\*

\*\*\*\*\*

\* NOTE: to avoid entanglements with Unisys' patent on LZW compression, \*

\* the ability to read GIF files has been removed from the IJG distribution. \*

\* Sorry about that. \*

\*\*\*\*\*

\*

\* We are required to state that

\* "The Graphics Interchange Format(c) is the Copyright property of

\* CompuServe Incorporated. GIF(sm) is a Service Mark property of

\* CompuServe Incorporated."

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/rdgif.c

No license file was found, but licenses were detected in source scan.

/\*

\* transupp.h

\*

\* Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains declarations for image transformation routines and

\* other utility code used by the jpegtran sample application. These are

\* NOT part of the core JPEG library. But we keep these routines separate

\* from jpegtran.c to ease the task of maintaining jpegtran-like programs

\* that have other user interfaces.

\*



\* NOTE: all the routines declared here have very specific requirements  
\* about when they are to be executed during the reading and writing of the  
\* source and destination files. See the comments in transupp.c, or see  
\* jpegtran.c for an example of correct usage.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/transupp.h

No license file was found, but licenses were detected in source scan.

1.3.0

=====

[1] 'make test' now works properly on FreeBSD, and it no longer requires the md5sum executable to be present on other Un\*x platforms.

[2] Overhauled the packaging system:

-- To avoid conflict with vendor-supplied libjpeg-turbo packages, the official RPMs and DEBs for libjpeg-turbo have been renamed to "libjpeg-turbo-official".  
-- The TurboJPEG libraries are now located under /opt/libjpeg-turbo in the official Linux and Mac packages, to avoid conflict with vendor-supplied packages and also to streamline the packaging system.  
-- Release packages are now created with the directory structure defined by the configure variables "prefix", "bindir", "libdir", etc. (Un\*x) or by the CMAKE\_INSTALL\_PREFIX variable (Windows.) The exception is that the docs are always located under the system default documentation directory on Un\*x and Mac systems, and on Windows, the TurboJPEG DLL is always located in the Windows system directory.  
-- To avoid confusion, official libjpeg-turbo packages on Linux/Unix platforms (except for Mac) will always install the 32-bit libraries in /opt/libjpeg-turbo/lib32 and the 64-bit libraries in /opt/libjpeg-turbo/lib64.  
-- Fixed an issue whereby, in some cases, the libjpeg-turbo executables on Un\*x systems were not properly linking with the shared libraries installed by the same package.  
-- Fixed an issue whereby building the "installer" target on Windows when WITH\_JAVA=1 would fail if the TurboJPEG JAR had not been previously built.  
-- Building the "install" target on Windows now installs files into the same places that the installer does.

[3] Fixed a Huffman encoder bug that prevented I/O suspension from working properly.

1.2.90 (1.3 beta1)

=====



[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers have a policy against accepting any library that isn't versioned.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The `tjDecompressToYUV()` function now supports the `TJFLAG_FASTDCT` flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in `/usr/lib/i386-linux-gnu` for the TurboJPEG libraries in `/usr/lib32`. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass `-Djava.library.path=/usr/lib` to java.

[7] `TJBench` has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with `'java -cp turbojpeg.jar TJBench'`.

[8] `cjpeg` can now be used to generate JPEG files with the RGB colorspace (feature ported from `jpeg-8d`.)

[9] The width and height in the `-crop` argument passed to `jpegtran` can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes `jpegtran` to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from `jpeg-8d`.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from `jpeg-8d`.)

[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (`jpeg_mem_src()` and `jpeg_mem_dest()`) are now included by default when building `libjpeg-turbo` with



libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un\*x systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

## 1.2.1

=====

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVDQU instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy



upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form `""%define' expects a macro identifier"`.

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

## 1.2.0

=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find `jsimdcfg.inc`.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See <http://crbug.com/72399> for more information.

[3] Added a compile-time macro (`LIBJPEG_TURBO_VERSION`) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of `jconfig.h` contained an `INLINE` macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into `config.h`.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

[7] Added ARM v6 and ARM v7 architectures to `libjpeg.a` and `libturbojpeg.a` in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.



=====

[1] Added a Java wrapper for the TurboJPEG API. See `java/README` for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as `jpegtran`, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to `tjbench` (the TurboJPEG benchmark, formerly called "jpgtest".)

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed `libjpeg-turbo`, in its entirety, to be re-licensed under a BSD-style license.

[9] `libjpeg-turbo` can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of `TJBUFSIZE()` that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the `libjpeg` memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of `jpegtran` on Windows that occurred when



the application was invoked using I/O redirection  
(jpegtran <input.jpg >output.jpg).

[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS\_EXT\_RGBX, JCS\_EXT\_BGRX, JCS\_EXT\_XBGR, or JCS\_EXT\_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

#### 1.1.1

=====

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.



[5] Fixed a bug in jpeg\_read\_coefficients() whereby it would not initialize cinfo->image\_width and cinfo->image\_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.

[6] Eliminated excessive I/O overhead that occurred when reading BMP files in cjpeg.

[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

#### 1.1.0

=====

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is  $\geq 98$  and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.

[4] Fixed visual artifacts in grayscale JPEG compression caused by a typo in the RGB-to-luminance lookup tables.

[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)

[6] All packages now include jpgtest.

[7] The TurboJPEG dynamic library now uses versioned symbols.

[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ\_YUV flag.

#### 1.0.90 (1.1 beta1)

=====



[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.

[2] Created a new CMake-based build system for the Visual C++ and MinGW builds.

[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpegtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ\_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

## 1.0.1

=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE\_TYPES\_BROKEN macro should be defined.

## 1.0.0



=====

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.

[4] Created a 32-bit supplementary package for amd64 Debian systems, which contains just the 32-bit libjpeg-turbo libraries.

[5] Moved the libraries from \*/lib32 to \*/lib in the i386 Debian package.

[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93

=====

[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91

=====

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90

=====

Initial release

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-



1.3.0/ChangeLog.txt

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\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/tjbench.c

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/tjunitest.c

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/turbojpeg.c

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/TJBench.java

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;}{\levelnumbers;}\fi-360\li720\lin720 }{\listname ;}\listid1}}



```
{*\listoverridetable{\listoverride\listid1\listoverridecount0\ls1} }
\margl1440\margr1440\vieww9820\viewh8480\viewkind0
\deftab720
\pard\pardeftab720
```

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}

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/release/License.rtf

No license file was found, but licenses were detected in source scan.

/\*

\* jdatasrc-tj.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* Modified 2009-2011 by Guido Vollbeding.

\* Modifications:

\* Copyright (C) 2011, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains decompression data source routines for the case of

\* reading JPEG data from memory or from a file (or any stdio stream).

\* While these routines are sufficient for most applications,



\* some will want to use a different source manager.  
\* IMPORTANT: we assume that fread() will correctly transcribe an array of  
\* JOCTETs from 8-bit-wide elements on external storage. If char is wider  
\* than 8 bits on your machine, you may need to do some tweaking.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdatasrc-tj.c

No license file was found, but licenses were detected in source scan.

// Natural Docs is licensed under the GPL.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/doc/html/search/search.js

No license file was found, but licenses were detected in source scan.

libjpeg-turbo note: This image was extracted from the 8-bit nightshot\_iso\_100 image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008

[http://www.imagecompression.info/test\\_images](http://www.imagecompression.info/test_images)

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and its about time they become a part of history only. They are too small, come from data sources too old and are available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

Images are available without any prohibitive copyright restrictions.

These images are (c) there respective owners. You are granted full redistribution and publication rights on these images provided:

1. The origin of the pictures must not be misrepresented; you must not claim that you took the original pictures. If you use, publish or redistribute them, an acknowledgment would be appreciated but is not required.
2. Altered versions must be plainly marked as such, and must not be misinterpreted as being the originals.
3. No payment is required for distribution this material, it must be available freely under the conditions stated here. That is, it is prohibited to sell the material.
4. This notice may not be removed or altered from any distribution.

Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Fröhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up



this set.

Sachin Garg [India]  
sachingarg@c10n.info

www.sachingarg.com | www.c10n.info | www.imagecompression.info

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/testimages/nightshot\_iso\_100.txt

No license file was found, but licenses were detected in source scan.

/\*

\* jdapistd.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* Modifications:

\* Copyright (C) 2010, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains application interface code for the decompression half

\* of the JPEG library. These are the "standard" API routines that are

\* used in the normal full-decompression case. They are not used by a

\* transcoding-only application. Note that if an application links in

\* jpeg\_start\_decompress, it will end up linking in the entire decompressor.

\* We thus must separate this file from jdapimin.c to avoid linking the

\* whole decompression library into a transcoder.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdapistd.c

No license file was found, but licenses were detected in source scan.

/\*

\* jmemmgr.c

\*

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains the JPEG system-independent memory management

\* routines. This code is usable across a wide variety of machines; most

\* of the system dependencies have been isolated in a separate file.

\* The major functions provided here are:

\* \* pool-based allocation and freeing of memory;

\* \* policy decisions about how to divide available memory among the



- \* virtual arrays;
- \* \* control logic for swapping virtual arrays between main memory and
- \* backing storage.
- \* The separate system-dependent file provides the actual backing-storage
- \* access code, and it contains the policy decision about how much total
- \* main memory to use.
- \* This file is system-dependent in the sense that some of its functions
- \* are unnecessary in some systems. For example, if there is enough virtual
- \* memory so that backing storage will never be used, much of the virtual
- \* array control logic could be removed. (Of course, if you have that much
- \* memory then you shouldn't care about a little bit of unused code...)
- \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jmemmgr.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jpegcomp.h
 *
 * Copyright (C) 2010, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * JPEG compatibility macros
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jpegcomp.h

No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc  
; more details.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jfss2int.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jimmxint.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jiss2int-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jfss2int-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jfmmxint.asm



\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jiss2int.asm

No license file was found, but licenses were detected in source scan.

/\*

\* jccolor.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1991-1996, Thomas G. Lane.

\* Modifications:

\* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB

\* Copyright (C) 2009-2012, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains input colorspace conversion routines.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jccolor.c

No license file was found, but licenses were detected in source scan.

/\*\_

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\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/md5/md5.h



No license file was found, but licenses were detected in source scan.

License: BSD-style

libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/release/libjpeg-turbo.spec.in

No license file was found, but licenses were detected in source scan.

/\*

\* cdjpeg.h

\*

\* Copyright (C) 1994-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains common declarations for the sample applications

\* cjpeg and djpeg. It is NOT used by the core JPEG library.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/cdjpeg.h

No license file was found, but licenses were detected in source scan.

/\*

\* jdcoefct.c

\*

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\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains the coefficient buffer controller for decompression.

\* This controller is the top level of the JPEG decompressor proper.

\* The coefficient buffer lies between entropy decoding and inverse-DCT steps.

\*

\* In buffered-image mode, this controller is the interface between

\* input-oriented processing and output-oriented processing.

\* Also, the input side (only) is used when reading a file for transcoding.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdcoefct.c



No license file was found, but licenses were detected in source scan.

```
/*
 * jdmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG decompressor.
 * These routines are concerned with selecting the modules to be executed
 * and with determining the number of passes and the work to be done in each
 * pass.
 */
```

Found in path(s):

`/opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdmaster.c`

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C)2009-2013 D. R. Commander. All Rights Reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions are met:
 *
 * - Redistributions of source code must retain the above copyright notice,
 * this list of conditions and the following disclaimer.
 * - Redistributions in binary form must reproduce the above copyright notice,
 * this list of conditions and the following disclaimer in the documentation
 * and/or other materials provided with the distribution.
 * - Neither the name of the libjpeg-turbo Project nor the names of its
 * contributors may be used to endorse or promote products derived from this
 * software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS",
 * AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
 * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 * INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 * CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
```



\* POSSIBILITY OF SUCH DAMAGE.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/turbojpeg.h

No license file was found, but licenses were detected in source scan.

/\*

\* rdtarga.c

\*

\* Copyright (C) 1991-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains routines to read input images in Targa format.

\*

\* These routines may need modification for non-Unix environments or

\* specialized applications. As they stand, they assume input from

\* an ordinary stdio stream. They further assume that reading begins

\* at the start of the file; start\_input may need work if the

\* user interface has already read some data (e.g., to determine that

\* the file is indeed Targa format).

\*

\* Based on code contributed by Lee Daniel Crocker.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/rdtarga.c

No license file was found, but licenses were detected in source scan.

/\*

\* jdsample.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1991-1996, Thomas G. Lane.

\* Modifications:

\* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB

\* Copyright (C) 2010, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains upsampling routines.

\*

\* Upsampling input data is counted in "row groups". A row group

\* is defined to be (v\_samp\_factor \* DCT\_scaled\_size / min\_DCT\_scaled\_size)

\* sample rows of each component. Upsampling will normally produce

\* max\_v\_samp\_factor pixel rows from each row group (but this could vary



- \* if the upsampler is applying a scale factor of its own).
- \*
- \* An excellent reference for image resampling is
- \* Digital Image Warping, George Wolberg, 1990.
- \* Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.
- \*/

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdsample.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 *
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 *
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
 * quantization values. The smaller the quantization table entry, the less
 * precise the scaled value, so this implementation does worse with high-
 * quality-setting files than with low-quality ones.
 */
```

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jfdctfst.c



No license file was found, but licenses were detected in source scan.

```
/*
 * jmorecfg.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains additional configuration options that customize the
 * JPEG software for special applications or support machine-dependent
 * optimizations. Most users will not need to touch this file.
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jmorecfg.h
```

No license file was found, but licenses were detected in source scan.

```
/*
 * transupp.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/transupp.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jsimd_arm.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 */
```



- \* Based on the x86 SIMD extension for IJG JPEG library,
- \* Copyright (C) 1999-2006, MIYASAKA Masaru.
- \* For conditions of distribution and use, see copyright notice in jsimdxext.inc
- \*
- \* This file contains the interface between the "normal" portions
- \* of the library and the SIMD implementations when running on
- \* ARM architecture.
- \*
- \* Based on the stubs from 'jsimd\_none.c'
- \*/

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jsimd\_arm.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jchuff.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy encoding routines.
 *
 * Much of the complexity here has to do with supporting output suspension.
 * If the data destination module demands suspension, we want to be able to
 * back up to the start of the current MCU. To do this, we copy state
 * variables into local working storage, and update them back to the
 * permanent JPEG objects only upon successful completion of an MCU.
 */
```

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jchuff.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains downsampling routines.
```



\*  
 \* Downsampling input data is counted in "row groups". A row group  
 \* is defined to be max\_v\_samp\_factor pixel rows of each component,  
 \* from which the downsampler produces v\_samp\_factor sample rows.  
 \* A single row group is processed in each call to the downsampler module.  
 \*  
 \* The downsampler is responsible for edge-expansion of its output data  
 \* to fill an integral number of DCT blocks horizontally. The source buffer  
 \* may be modified if it is helpful for this purpose (the source buffer is  
 \* allocated wide enough to correspond to the desired output width).  
 \* The caller (the prep controller) is responsible for vertical padding.  
 \*  
 \* The downsampler may request "context rows" by setting need\_context\_rows  
 \* during startup. In this case, the input arrays will contain at least  
 \* one row group's worth of pixels above and below the passed-in data;  
 \* the caller will create dummy rows at image top and bottom by replicating  
 \* the first or last real pixel row.  
 \*  
 \* An excellent reference for image resampling is  
 \* Digital Image Warping, George Wolberg, 1990.  
 \* Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.  
 \*  
 \* The downsampling algorithm used here is a simple average of the source  
 \* pixels covered by the output pixel. The hi-falutin sampling literature  
 \* refers to this as a "box filter". In general the characteristics of a box  
 \* filter are not very good, but for the specific cases we normally use (1:1  
 \* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not  
 \* nearly so bad. If you intend to use other sampling ratios, you'd be well  
 \* advised to improve this code.  
 \*  
 \* A simple input-smoothing capability is provided. This is mainly intended  
 \* for cleaning up color-dithered GIF input files (if you find it inadequate,  
 \* we suggest using an external filtering program such as pnmconvol). When  
 \* enabled, each input pixel P is replaced by a weighted sum of itself and its  
 \* eight neighbors. P's weight is 1-8\*SF and each neighbor's weight is SF,  
 \* where SF = (smoothing\_factor / 1024).  
 \* Currently, smoothing is only supported for 2h2v sampling factors.  
 \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/jcsample.c

No license file was found, but licenses were detected in source scan.

/\*

\* rdrle.c

\*

\* Copyright (C) 1991-1996, Thomas G. Lane.



- \* This file is part of the Independent JPEG Group's software.
- \* For conditions of distribution and use, see the accompanying README file.
- \*
- \* This file contains routines to read input images in Utah RLE format.
- \* The Utah Raster Toolkit library is required (version 3.1 or later).
- \*
- \* These routines may need modification for non-Unix environments or
- \* specialized applications. As they stand, they assume input from
- \* an ordinary stdio stream. They further assume that reading begins
- \* at the start of the file; start\_input may need work if the
- \* user interface has already read some data (e.g., to determine that
- \* the file is indeed RLE format).
- \*
- \* Based on code contributed by Mike Lijewski,
- \* with updates from Robert Hutchinson.
- \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/rdrle.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jmemnobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that no backing-store files are needed: all required space
 * can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything,
 * but you'd better have lots of main memory (or virtual memory) if you want
 * to process big images.
 * Note that the max_memory_to_use option is ignored by this implementation.
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jmemnobs.c

No license file was found, but licenses were detected in source scan.

```
/*
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 *
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```



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- \*/

```
package org.libjpegturbo.turbojpeg;
```

```
final class TJLoader {
 static void load() {
 try {
 System.loadLibrary("turbojpeg");
 } catch (java.lang.UnsatisfiedLinkError e) {
 String os = System.getProperty("os.name").toLowerCase();
 if (os.indexOf("mac") >= 0) {
 try {
 System.load("%{__libdir}/libturbojpeg.jnilib");
 } catch (java.lang.UnsatisfiedLinkError e2) {
 System.load("/usr/lib/libturbojpeg.jnilib");
 }
 } else {
 try {
 System.load("%{__libdir}/libturbojpeg.so");
 } catch (java.lang.UnsatisfiedLinkError e3) {
 String libdir = "%{__libdir}";
 if (libdir.equals("/opt/libjpeg-turbo/lib64")) {
 System.load("/opt/libjpeg-turbo/lib32/libturbojpeg.so");
 } else if (libdir.equals("/opt/libjpeg-turbo/lib32")) {
 System.load("/opt/libjpeg-turbo/lib64/libturbojpeg.so");
 } else {
```



```

 throw e3;
 }
}
}
}
}
};

```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/org/libjpegturbo/turbojpeg/TJLoader.java.tmpl

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```

/*
 * jcapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-compression case or the transcoding-only
 * case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jcapistd.c. But also see jcparam.c for
 * parameter-setup helper routines, jcomapi.c for routines shared by
 * compression and decompression, and jctrans.c for the transcoding case.
 */

```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcapimin.c

No license file was found, but licenses were detected in source scan.

```

/*
 * jdcolect.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

```



Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdcolex.c

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/\*

\* rdswitch.c

\*

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\* Modifications:

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\*

\* This file contains routines to process some of cjpeg's more complicated

\* command-line switches. Switches processed here are:

\* -qtables file Read quantization tables from text file

\* -scans file Read scan script from text file

\* -quality N[,N,...] Set quality ratings

\* -qslots N[,N,...] Set component quantization table selectors

\* -sample HxV[,HxV,...] Set component sampling factors

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/rdswitch.c

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/\*

\* jdtrans.c

\*

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\* This file is part of the Independent JPEG Group's software.

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\*

\* This file contains library routines for transcoding decompression,

\* that is, reading raw DCT coefficient arrays from an input JPEG file.

\* The routines in jdapimin.c will also be needed by a transcoder.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdtrans.c

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/\*

\* jfdctint.c



```

*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-
1.3.0/jfdctint.c

```

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```

/*
* jccoeft.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-
1.3.0/jccoeft.c

```

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```

/*
* jaricom.c
*

```



- \* Developed 1997-2009 by Guido Vollbeding.
- \* This file is part of the Independent JPEG Group's software.
- \* For conditions of distribution and use, see the accompanying README file.
- \*
- \* This file contains probability estimation tables for common use in
- \* arithmetic entropy encoding and decoding routines.
- \*
- \* This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
- \* and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
- \* (ISO/IEC IS 11544 and CCITT Recommendation ITU-T T.82).
- \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jaricom.c

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```
/*
 * jcmaint.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcmaint.c

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```
/*
 * jcinit.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
```



\* without linking in the whole library.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcinit.c

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/\*

\* jcrepct.c

\*

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains the compression preprocessing controller.

\* This controller manages the color conversion, downsampling,

\* and edge expansion steps.

\*

\* Most of the complexity here is associated with buffering input rows

\* as required by the downsampler. See the comments at the head of

\* jcsample.c for the downsampler's needs.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcrepct.c

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/\*

\* jutils.c

\*

\* Copyright (C) 1991-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains tables and miscellaneous utility routines needed

\* for both compression and decompression.

\* Note we prefix all global names with "j" to minimize conflicts with

\* a surrounding application.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jutils.c

No license file was found, but licenses were detected in source scan.

/\*



```

* jcdctmgr.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2011 D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcdctmgr.c

```

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```

/*
* jcapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcapistd.c

```

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```

/*
* jidctred.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
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```



```

*
* This file contains inverse-DCT routines that produce reduced-size output:
* either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
*
* The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M)
* algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
* with an 8-to-4 step that produces the four averages of two adjacent outputs
* (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
* These steps were derived by computing the corresponding values at the end
* of the normal LL&M code, then simplifying as much as possible.
*
* 1x1 is trivial: just take the DC coefficient divided by 8.
*
* See jidctint.c for additional comments.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-
1.3.0/jidctred.c

```

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## TurboJPEG Java Wrapper

```
=====
```

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under `org/libjpegturbo/turbojpeg`. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of `libjpeg-turbo`.

`TJExample.java`, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

## Performance Pitfalls

```

```

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all



threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.

## Installation Directory

-----

The TurboJPEG Java Wrapper will look for the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) in the system library paths or in any paths specified in LD\_LIBRARY\_PATH (Un\*x), DYLD\_LIBRARY\_PATH (Mac), or PATH (Windows.) Failing this, on Un\*x and Mac systems, the wrapper will look for the JNI library under the library directory configured when libjpeg-turbo was built. If that library directory is /opt/libjpeg-turbo/lib32, then /opt/libjpeg-turbo/lib64 is also searched, and vice versa.

If you installed the JNI library into another directory, then you will need to pass an argument of -Djava.library.path={path\_to\_JNI\_library} to java, or manipulate LD\_LIBRARY\_PATH, DYLD\_LIBRARY\_PATH, or PATH to include the directory containing the JNI library.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/README

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 \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcstest.c  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/org/libjpegturbo/turbojpeg/TJScalingFactor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/bmp.c  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/tjutil.h  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/bmp.h  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/org/libjpegturbo/turbojpeg/TJLoader.java.in  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/tjutil.c

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```
{\rtf1\ansi\ansicpg1252\cocoartf1038\cocoasubrtf360
{\fonttbl{\f0\fswiss\fcharset0 Helvetica;}
{\colortbl;\red255\green255\blue255;}
\margl1440\margr1440\vieww26380\viewh15840\viewkind0
\defstab720
\pard\pardefstab720\ql\qnatural
```

\f0\fs24 \cf0 libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.\

\libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.\

\libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG



compression/decompression technology available to a broader range of users and developers.\n}\n

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/release/ReadMe.rtf

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/\*

\* wrjpgcom.c

\*

\* Copyright (C) 1994-1997, Thomas G. Lane.

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\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains a very simple stand-alone application that inserts

\* user-supplied text as a COM (comment) marker in a JFIF file.

\* This may be useful as an example of the minimum logic needed to parse

\* JPEG markers.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/wrjpgcom.c

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\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/org/libjpegturbo/turbojpeg/TJDecompressor.java  
\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/org/libjpegturbo/turbojpeg/TJ.java  
\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/turbojpeg-jni.c

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\* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE  
\* POSSIBILITY OF SUCH DAMAGE.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/org/libjpegturbo/turbojpeg/TJTransform.java



\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/org/libjpegturbo/turbojpeg/TJCustomFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/org/libjpegturbo/turbojpeg/TJTransformer.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm  
\*  
\* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All  
\* rights reserved.  
\*  
\* License to copy and use this software is granted provided that it  
\* is identified as the "RSA Data Security, Inc. MD5 Message-Digest  
\* Algorithm" in all material mentioning or referencing this software  
\* or this function.  
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\* Security, Inc. MD5 Message-Digest Algorithm" in all material  
\* mentioning or referencing the derived work.  
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\* RSA Data Security, Inc. makes no representations concerning either  
\* the merchantability of this software or the suitability of this  
\* software for any particular purpose. It is provided "as is"  
\* without express or implied warranty of any kind.  
\*  
\* These notices must be retained in any copies of any part of this  
\* documentation and/or software.  
\*  
\* This code is the same as the code published by RSA Inc. It has been  
\* edited for clarity and style only.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/md5/md5.c  
No license file was found, but licenses were detected in source scan.

/\*  
\* jcmaster.c  
\*  
\* This file was part of the Independent JPEG Group's software:  
\* Copyright (C) 1991-1997, Thomas G. Lane.  
\* Modified 2003-2010 by Guido Vollbeding.  
\* Modifications:  
\* Copyright (C) 2010, D. R. Commander.  
\* For conditions of distribution and use, see the accompanying README file.



```

*
* This file contains master control logic for the JPEG compressor.
* These routines are concerned with parameter validation, initial setup,
* and inter-pass control (determining the number of passes and the work
* to be done in each pass).
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcmaster.c

```

No license file was found, but licenses were detected in source scan.

```

/*
* jcmarker.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write JPEG datastream markers.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcmarker.c

```

No license file was found, but licenses were detected in source scan.

```

;
; jdct.inc - private declarations for forward & reverse DCT subsystems
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
#define RANGE_MASK (MAXJSAMPLE * 4 + 3) ; 2 bits wider than legal samples

```



```
%define ROW(n,b,s) ((b)+(n)*(s))
%define COL(n,b,s) ((b)+(n)*(s)*DCTSIZE)

%define DWBLOCK(m,n,b,s) ((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s) ((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s) ((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)
```

```
; -----
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdct.inc
```

No license file was found, but licenses were detected in source scan.

```

```

## \*\* Background

```

```

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

```

```

## \*\* License

```

```

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:



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```

** Using libjpeg-turbo

```

libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

**TurboJPEG API:** This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

**libjpeg API:** This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used



to perform similar operations.

## Installation Directory

This document assumes that libjpeg-turbo will be installed in the default directory (/opt/libjpeg-turbo on Un\*x and Mac systems and c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

## Replacing libjpeg at Run Time

### Un\*x

If a Un\*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD\_LIBRARY\_PATH. For instance:

[Using libjpeg]

```
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.392s
user 0m0.074s
sys 0m0.020s
```

[Using libjpeg-turbo]

```
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.109s
user 0m0.029s
sys 0m0.010s
```

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the 64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib\* with links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}. This will effectively accelerate every application that uses the libjpeg dynamic library on the system.

### Windows

If a Windows application is dynamically linked with libjpeg, then you can



replace libjpeg with libjpeg-turbo at run time by backing up the application's copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its own local copy of this library) and copying the corresponding DLL from libjpeg-turbo into the application's install directory. The official libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg\_stdio\_dest() and jpeg\_stdio\_src().

Mac

---

Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.\*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install\_name\_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

=====

#### Using libjpeg-turbo in Your Own Programs

=====

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un\*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

```
CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}
```

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a



64-bit application.)

If using MinGW, then set

```
CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib
```

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un\*x systems, you would still need to manipulate LD\_LIBRARY\_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass `-R /opt/libjpeg-turbo/{lib}` to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un\*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

```
-Wl,-Bstatic -ljpeg -Wl,-Bdynamic
```

On OS X, simply add `/opt/libjpeg-turbo/lib/libjpeg.a` to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add `c:\libjpeg-turbo[64]\include` to the system or user INCLUDE environment variable and `c:\libjpeg-turbo[64]\lib` to the system or user LIB environment variable, and then link against either `jpeg.lib` (to use the DLL version of libjpeg-turbo) or `jpeg-static.lib` (to use the static version of libjpeg-turbo.)

```
=====
Colorspace Extensions
=====
```

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

```
JCS_EXT_RGB /* red/green/blue */
JCS_EXT_RGBX /* red/green/blue/x */
JCS_EXT_BGR /* blue/green/red */
JCS_EXT_BGRX /* blue/green/red/x */
JCS_EXT_XBGR /* x/blue/green/red */
JCS_EXT_XRGB /* x/red/green/blue */
JCS_EXT_RGBA /* red/green/blue/alpha */
JCS_EXT_BGRA /* blue/green/red/alpha */
```



```
JCS_EXT_ABGR /* alpha/blue/green/red */
JCS_EXT_ARGB /* alpha/red/green/blue */
```

Setting `cinfo.in_color_space` (compression) or `cinfo.out_color_space` (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```
#ifdef JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspace during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify `JCS_EXT_RGBA`, `JCS_EXT_BGRA`, `JCS_EXT_ABGR`, or `JCS_EXT_ARGB`. When these colorspace constants are used, the X byte is guaranteed to be `0xFF`, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```
#ifdef JCS_ALPHA_EXTENSIONS
```

`jcstest.c`, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

```
=====
libjpeg v7 and v8 API/ABI Emulation
=====
```

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding



without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of `--with-jpeg7` or `--with-jpeg8` to `configure`, or an argument of `-DWITH_JPEG7=1` or `-DWITH_JPEG8=1` to `cmake`, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:

-----

Fully supported:

- libjpeg: IDCT scaling extensions in decompressor  
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)
- libjpeg: arithmetic coding
- libjpeg: In-memory source and destination managers  
See notes below.
- cjpeg: Separate quality settings for luminance and chrominance  
Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see `rdswitch.c` for an example.)
- cjpeg: 32-bit BMP support
- cjpeg: `-rgb` option
- jpegtran: lossless cropping
- jpegtran: `-perfect` option
- jpegtran: forcing width/height when performing lossless crop
- rdjpgcom: `-raw` option
- rdjpgcom: locale awareness

Not supported:



NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at <http://www.libjpeg-turbo.org/About/SmartScale> and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor

cinfo.scale\_num and cinfo.scale\_denom are silently ignored.

There is no technical reason why DCT scaling could not be supported when emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale

cinfo.block\_size is silently ignored.

SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor

cinfo.do\_fancy\_downsampling is silently ignored.

This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling

This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files

This requires the SmartScale feature, which is not supported.

What About libjpeg v9?

-----

libjpeg v9 introduced yet another field to the JPEG compression structure (color\_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.



Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

=====

## In-Memory Source/Destination Managers

=====

By default, libjpeg-turbo 1.3 and later includes the `jpeg_mem_src()` and `jpeg_mem_dest()` functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of `--without-mem-srcdst` to configure or an argument of `-DWITH_MEM_SRCDEST=0` to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which `jpeg_mem_src()` and `jpeg_mem_dest()` are only included when emulating the libjpeg v8 API/ABI.

On Un\*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un\*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses `jpeg_mem_src()` or `jpeg_mem_dest()`, that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call `jpeg_mem_src()` or `jpeg_mem_dest()`. Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses `jpeg_mem_src()` or `jpeg_mem_dest()`, then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both `cjpeg` and `djpeg` have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

\*\*\*\*\*

\*\* Mathematical Compatibility



\*\*\*\*\*

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.
- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.
- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.
- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

\*\*\*\*\*

## \*\* Performance Pitfalls

\*\*\*\*\*

=====

### Restart Markers

=====

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.



---

## Fast Integer Forward DCT at High Quality Levels

---

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/README-turbo.txt

No license file was found, but licenses were detected in source scan.

```
/*
 * jchuff.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for Huffman entropy encoding routines
 * that are shared between the sequential encoder (jchuff.c) and the
 * progressive encoder (jcphuff.c). No other modules need to see these.
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jchuff.h

No license file was found, but licenses were detected in source scan.

```
/*
 * jddctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,
 * and it performs related housekeeping chores. No code in this file
 * is executed per IDCT step, only during output pass setup.
```



\*  
\* Note that the IDCT routines are responsible for performing coefficient  
\* dequantization as well as the IDCT proper. This module sets up the  
\* dequantization multiplier table needed by the IDCT routine.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jddctmgr.c

No license file was found, but licenses were detected in source scan.

/\*  
\* jpeglib.h  
\*  
\* This file was part of the Independent JPEG Group's software:  
\* Copyright (C) 1991-1998, Thomas G. Lane.  
\* Modified 2002-2009 by Guido Vollbeding.  
\* Modifications:  
\* Copyright (C) 2009-2011, 2013, D. R. Commander.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file defines the application interface for the JPEG library.  
\* Most applications using the library need only include this file,  
\* and perhaps jerror.h if they want to know the exact error codes.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jpeglib.h

No license file was found, but licenses were detected in source scan.

/\*  
\* rdppm.c  
\*  
\* Copyright (C) 1991-1997, Thomas G. Lane.  
\* Modified 2009 by Bill Allombert, Guido Vollbeding.  
\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains routines to read input images in PPM/PGM format.  
\* The extended 2-byte-per-sample raw PPM/PGM formats are supported.  
\* The PBMPLUS library is NOT required to compile this software  
\* (but it is highly useful as a set of PPM image manipulation programs).  
\*  
\* These routines may need modification for non-Unix environments or  
\* specialized applications. As they stand, they assume input from  
\* an ordinary stdio stream. They further assume that reading begins  
\* at the start of the file; start\_input may need work if the



```

* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/rdppm.c

```

No license file was found, but licenses were detected in source scan.

```

; For conditions of distribution and use, see copyright notice in jsimext.inc
; for more details.

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jfss2fst.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jfss2fst-64.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jiss2fst-64.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jimxfst.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jfmmxfst.asm
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jiss2fst.asm

```

No license file was found, but licenses were detected in source scan.

## IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.

This file was part of the Independent JPEG Group's software.

It was modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo.

For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;



that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:

A "component" means a color channel, e.g., Red or Luminance.

A "sample" is a single component value (i.e., one number in the image data).

A "coefficient" is a frequency coefficient (a DCT transform output number).

A "block" is an 8x8 group of samples or coefficients.

An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

### \*\*\* System features \*\*\*

The IJG distribution contains two parts:

- \* A subroutine library for JPEG compression and decompression.
- \* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all



parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

#### \*\*\* Portability issues \*\*\*

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.
2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.
3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger



data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

### \*\*\* System overview \*\*\*

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

#### Preprocessing:

- \* Color space conversion (e.g., RGB to YCbCr).
- \* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

#### JPEG proper:

- \* MCU assembly, DCT, quantization.
- \* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

#### JPEG proper:

- \* Entropy decoding (sequential or progressive, Huffman or arithmetic).
- \* Dequantization, inverse DCT, MCU disassembly.

#### Postprocessing:

- \* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
- \* Color space conversion (e.g., YCbCr to RGB). This step may also



provide gamma adjustment [ currently it does not ].

\* Optional color quantization (e.g., reduction to 256 colors).

\* Optional color precision reduction (e.g., 24-bit to 15-bit color).

[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module.

The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

\*\*\* Poor man's object-oriented programming \*\*\*

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".



We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see `jdatadst.c`, which implements the external interface specified by struct `jpeg_destination_mgr`, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

\*\*\* Overall control structure \*\*\*

We previously mentioned the need for overall control logic in the compression



and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

1A. Startup initialization at the beginning of image processing.

The individual processing modules to be used in this run are selected and given initialization calls.

1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself

appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

```
input data => processing step A => buffer => processing step B => output data
 | | |
 ----- controller -----
```

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

\* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)



\* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

### \*\*\* Compression object structure \*\*\*

Here is a sketch of the logical structure of the JPEG compression library:

```

 |-- Colospace conversion
 |-- Preprocessing controller --|
 | |-- Downsampling
Main controller --|
 | |-- Forward DCT, quantize
 |-- Coefficient controller --|
 |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

\* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

\* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

\* Colospace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.



\* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as  $V_{max}$  pixel rows of each component before downsampling, and  $V_k$  sample rows afterwards (remember  $V_k$  differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

\* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

\* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

\* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

\* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

\* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

\* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

\* Memory manager: allocates and releases memory, controls virtual arrays



(with backing store management, where required).

\* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

\* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

#### \*\*\* Decompression object structure \*\*\*

Here is a sketch of the logical structure of the JPEG decompression library:

```

 |-- Entropy decoding
 |-- Coefficient controller --|
 |
 |-- Dequantize, Inverse DCT
Main controller --|
 |
 |-- Upsampling
 |-- Postprocessing controller --| |-- Colorspace conversion
 |-- Color quantization
 |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

\* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

\* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy



DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image.

(Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

\* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

\* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

\* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

\* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

\* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

\* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

\* Color reduction: this module handles color precision reduction, e.g.,



generating 15-bit color (5 bits/primary) from JPEG's 24-bit output.  
Not quite clear yet how this should be handled... should we merge it with  
colorspace conversion???

Note that some high-speed operating modes might condense the entire  
postprocessing sequence to a single module (upsample, color convert, and  
quantize in one step).

In addition to the above objects, the decompression library includes these  
objects:

- \* Master control: determines the number of passes required, controls overall  
and per-pass initialization of the other modules. This is subdivided into  
input and output control: `jdinput.c` controls only input-side processing,  
while `jdmaster.c` handles overall initialization and output-side control.
- \* Marker reading: decodes JPEG markers (except for `RSTn`).
- \* Data source manager: supplies the input JPEG datastream. The source  
manager supplied with the library knows how to read from a `stdio` stream  
or from a memory buffer; for other behaviors, the surrounding application  
may provide its own source manager.
- \* Memory manager: same as for compression library.
- \* Error handler: same as for compression library.
- \* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress  
monitor are candidates for replacement by a surrounding application.

\*\*\* Decompression input and output separation \*\*\*

To support efficient incremental display of progressive JPEG files, the  
decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the  
coefficient controller's DCT coefficient buffer. Note that this  
processing is relatively cheap and fast.
2. Data output reads from the DCT coefficient buffer and performs the IDCT  
and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get  
arbitrarily far ahead of the data output processing. (This occurs only  
if the application calls `jpeg_consume_input()`; otherwise input and output



run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. `jpeg_consume_input()` is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

\*\*\* Data formats \*\*\*

Arrays of pixel sample values use the following data structure:

```
typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined



as "`((value) & 0xFF)`" on signed-char machines and "`((int) (value))`" elsewhere.

With these conventions, JSAMPLE values can be assumed to be  $\geq 0$ . This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

- \* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
- \* Indexing doesn't require multiplication; this is a performance win on many machines.
- \* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
- \* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

```
GETJSAMPLE(image[colorcomponent][row][col])
```

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of  $(\text{\# of color components}) \times (\text{image width})$  JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)



Arrays of DCT-coefficient values use the following data structure:

```
typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKS, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

\*\*\* Suspensible processing \*\*\*

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and



then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The `libjpeg.txt` file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *\*improved\** performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used



to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *\*not\** cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling `jpeg_finish_compress()` will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

### \*\*\* Memory manager services \*\*\*

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever `malloc/free` are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

- \* `JPOOL_PERMANENT` lasts until master record is destroyed

- \* `JPOOL_IMAGE` lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, `JPOOL_PASS` = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:

1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:

- \* On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.



\* Pool allocation heuristics may differ for large and small objects.

Note that individual "large" objects cannot exceed the size allowed by type `size_t`, which may be 64K or less on some machines.

3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's *raison d'être* is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their `jinit_xxx` routines.
  2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
  3. `realize_virt_arrays` will be called at the completion of initial setup.
- The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the `realize_virt_arrays` computation.



In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing `realize_virt_arrays` to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in `jdcoeft.c` for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

### \*\*\* Memory manager internal structure \*\*\*

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (`jmemmgr.c`) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

`jpeg_mem_init`, `jpeg_mem_term` system-dependent initialization/shutdown

`jpeg_get_small`, `jpeg_free_small` interface to `malloc` and `free` library routines  
(or their equivalents)

`jpeg_get_large`, `jpeg_free_large` interface to `FAR malloc/free` in MSDOS machines;  
else usually the same as  
`jpeg_get_small/jpeg_free_small`

`jpeg_mem_available` estimate available memory

`jpeg_open_backing_store` create a backing-store object

`read_backing_store`, manipulate a backing-store object

`write_backing_store`,



close\_backing\_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). `jpeg_open_backing_store` is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call `self_destruct` (typically via `jpeg_destroy`) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

\*\*\* Implications of DNL marker \*\*\*

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:

1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)



The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:

1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/structure.txt

No license file was found, but licenses were detected in source scan.

/\*

\* rdcolmap.c

\*

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file implements djpeg's "-map file" switch. It reads a source image

\* and constructs a colormap to be supplied to the JPEG decompressor.

\*

\* Currently, these file formats are supported for the map file:

\* GIF: the contents of the GIF's global colormap are used.

\* PPM (either text or raw flavor): the entire file is read and

\* each unique pixel value is entered in the map.

\* Note that reading a large PPM file will be horrendously slow.

\* Typically, a PPM-format map file should contain just one pixel



```

* of each desired color. Such a file can be extracted from an
* ordinary image PPM file with ppmtomap(1).
*
* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
* currently implemented.
*/
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/rdcolmap.c

```

No license file was found, but licenses were detected in source scan.

```

/*
* jdcolor.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009, 2011-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdcolor.c

```

No license file was found, but licenses were detected in source scan.

```

/*
* jidctflt.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

```



```

*
* This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-
1.3.0/jidctflt.c

```

No license file was found, but licenses were detected in source scan.

```

/*
* jsimddct.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*/

```



Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jsimddct.h

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\* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS

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\*/

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\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/md5/md5cmp.c

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/\*

\* rdbmp.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* Modified 2009-2010 by Guido Vollbeding.

\* Modifications:

\* Modified 2011 by Siarhei Siamashka.

\* For conditions of distribution and use, see the accompanying README file.

\*



```

* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-bit and 24-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/rdbmp.c

```

No license file was found, but licenses were detected in source scan.

```

/*
* jpegtran.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jpegtran.c

```

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```

/*
* djpeg.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010-2011, 2013, D. R. Commander.

```



- \* For conditions of distribution and use, see the accompanying README file.
- \*
- \* This file contains a command-line user interface for the JPEG decompressor.
- \* It should work on any system with Unix- or MS-DOS-style command lines.
- \*
- \* Two different command line styles are permitted, depending on the
- \* compile-time switch TWO\_FILE\_COMMANDLINE:
- \* djpeg [options] inputfile outputfile
- \* djpeg [options] [inputfile]
- \* In the second style, output is always to standard output, which you'd
- \* normally redirect to a file or pipe to some other program. Input is
- \* either from a named file or from standard input (typically redirected).
- \* The second style is convenient on Unix but is unhelpful on systems that
- \* don't support pipes. Also, you MUST use the first style if your system
- \* doesn't do binary I/O to stdin/stdout.
- \* To simplify script writing, the "-outfile" switch is provided. The syntax
- \* djpeg [options] -outfile outputfile inputfile
- \* works regardless of which command line style is used.
- \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/djpeg.c

No license file was found, but licenses were detected in source scan.

- \* All rights reserved.
- \* Permission is granted to anyone to use this software for any purpose,
- \* 1. The origin of this software must not be misrepresented; you must not
- \* 2. Altered source versions must be plainly marked as such, and must not be
- \* 3. This notice may not be removed or altered from any source distribution.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jsimd\_arm\_neon.S

No license file was found, but licenses were detected in source scan.

```
/*
 * jdpostct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
 * between upsample/color conversion and color quantization/reduction.
 */
```



- \* If no color quantization/reduction is required, then this module has no
- \* work to do, and it just hands off to the upsample/color conversion code.
- \* An integrated upsample/convert/quantize process would replace this module
- \* entirely.
- \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdpostct.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
 * Modified 2000-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jctrans.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jdatadst-tj.c
 *
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */
```



Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdatadst-tj.c

No license file was found, but licenses were detected in source scan.

/\*

\* jversion.h

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.

\* Modifications:

\* Copyright (C) 2010, 2012-2013, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains software version identification.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jversion.h

No license file was found, but licenses were detected in source scan.

/\*

\* jcomapi.c

\*

\* Copyright (C) 1994-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains application interface routines that are used for both

\* compression and decompression.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcomapi.c

No license file was found, but licenses were detected in source scan.

/\*

\* wrppm.c

\*

\* Copyright (C) 1991-1996, Thomas G. Lane.

\* Modified 2009 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains routines to write output images in PPM/PGM format.

\* The extended 2-byte-per-sample raw PPM/PGM formats are supported.



- \* The PBMPLUS library is NOT required to compile this software
- \* (but it is highly useful as a set of PPM image manipulation programs).
- \*
- \* These routines may need modification for non-Unix environments or
- \* specialized applications. As they stand, they assume output to
- \* an ordinary stdio stream.
- \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/wrppm.c

No license file was found, but licenses were detected in source scan.

```
/*
 * cdjpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common support routines used by the IJG application
 * programs (cjpeg, djpeg, jpegtran).
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/cdjpeg.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jdapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-decompression case or the
 * transcoding-only case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jdapistd.c. But also see jcomapi.c for routines
 * shared by compression and decompression, and jdtrans.c for the transcoding
 * case.
 */
```

Found in path(s):



\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdapimin.c

No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdex.inc

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdmeross2.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcclrss2-64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jccolss2-64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdcolss2.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdsammmx.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jiss2red.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdsamss2-64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jimmxred.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcgrass2-64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdmrgss2.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jccolmmx.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcgryss2-64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jsimdcpu.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdclrss2-64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jdmeross2-64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcgrass2.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcsamss2-64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jf3dnflt.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcgryss2.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jiss2red-64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-



1.3.0/simd/jisseflt.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jdclrmx.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jcgrammx.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jdsamss2.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jdmrgss2-64.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jiss2flt-64.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jdclrss2.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jdmermmx.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jcqtss2i-64.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jcqtssse.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jcclrss2.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jiss2flt.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jfsseflt.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jcqtss2f.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jcqt3dn.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jcsamss2.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jcqtss2f-64.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jcqtss2i.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jfsseflt-64.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jcsammmx.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jccolss2.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jdcolmmx.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jcclrmx.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-  
 1.3.0/simd/jdmrgmmx.asm  
 \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-



1.3.0/simd/jcgrymmx.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-

1.3.0/simd/ji3dnflt.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-

1.3.0/simd/jdcolss2-64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-

1.3.0/simd/jcqntmmx.asm

No license file was found, but licenses were detected in source scan.

/\*

\* jcphuff.c

\*

\* Copyright (C) 1995-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains Huffman entropy encoding routines for progressive JPEG.

\*

\* We do not support output suspension in this module, since the library

\* currently does not allow multiple-scan files to be written with output

\* suspension.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-

1.3.0/jcphuff.c

No license file was found, but licenses were detected in source scan.

/\*

\* jsimd\_none.c

\*

\* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB

\* Copyright 2009-2011 D. R. Commander

\*

\* Based on the x86 SIMD extension for IJG JPEG library,

\* Copyright (C) 1999-2006, MIYASAKA Masaru.

\* For conditions of distribution and use, see copyright notice in jsimdext.inc

\*

\* This file contains stubs for when there is no SIMD support available.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-

1.3.0/jsimd\_none.c

No license file was found, but licenses were detected in source scan.

/\*

\* jinclude.h



```

*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
*
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jinclude.h

```

No license file was found, but licenses were detected in source scan.

```

/*
* jcpam.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2003-2008 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcpam.c

```

No license file was found, but licenses were detected in source scan.

```

/*
* simd/jsimd.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc

```



\*

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jsimd.h

No license file was found, but licenses were detected in source scan.

/\*

\* jdatasrc.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* Modified 2009-2011 by Guido Vollbeding.

\* Modifications:

\* Copyright (C) 2013, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains decompression data source routines for the case of

\* reading JPEG data from memory or from a file (or any stdio stream).

\* While these routines are sufficient for most applications,

\* some will want to use a different source manager.

\* IMPORTANT: we assume that fread() will correctly transcribe an array of

\* JOCTETs from 8-bit-wide elements on external storage. If char is wider

\* than 8 bits on your machine, you may need to do some tweaking.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdatasrc.c

No license file was found, but licenses were detected in source scan.

/\*

\* jcarith.c

\*

\* Developed 1997-2009 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains portable arithmetic entropy encoding routines for JPEG

\* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).

\*

\* Both sequential and progressive modes are supported in this single module.

\*

\* Suspension is not currently supported in this module.

\*/

Found in path(s):



\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jcarith.c

No license file was found, but licenses were detected in source scan.

/\*

\* wrgif.c

\*

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains routines to write output images in GIF format.

\*

\*\*\*\*\*

\* NOTE: to avoid entanglements with Unisys' patent on LZW compression, \*

\* this code has been modified to output "uncompressed GIF" files. \*

\* There is no trace of the LZW algorithm in this file. \*

\*\*\*\*\*

\*

\* These routines may need modification for non-Unix environments or

\* specialized applications. As they stand, they assume output to

\* an ordinary stdio stream.

\*/

/\*

\* This code is loosely based on pfmtogif from the PBMPLUS distribution

\* of Feb. 1991. That file contains the following copyright notice:

\* Based on GIFENCOD by David Rowley <mgardi@watdscu.waterloo.edu>.

\* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.

\* Copyright (C) 1989 by Jef Poskanzer.

\* Permission to use, copy, modify, and distribute this software and its

\* documentation for any purpose and without fee is hereby granted, provided

\* that the above copyright notice appear in all copies and that both that

\* copyright notice and this permission notice appear in supporting

\* documentation. This software is provided "as is" without express or

\* implied warranty.

\*

\* We are also required to state that

\* "The Graphics Interchange Format(c) is the Copyright property of

\* CompuServe Incorporated. GIF(sm) is a Service Mark property of

\* CompuServe Incorporated."

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/wrgif.c

No license file was found, but licenses were detected in source scan.

/\*



```

* jerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jerror.h

```

No license file was found, but licenses were detected in source scan.

```

/*
* jdmainct.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampled data in the JPEG colorspace.
*
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdmainct.c

```

No license file was found, but licenses were detected in source scan.

```

/*
* jerror.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

```



```

*
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
*
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to output to stderr under most Windows C compilers.
*
* These routines are used by both the compression and decompression code.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-
1.3.0/jerror.c

```

No license file was found, but licenses were detected in source scan.

```

/*
* jfdctflt.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a floating-point implementation of the
* forward DCT (Discrete Cosine Transform).
*
* This implementation should be more accurate than either of the integer
* DCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
*
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds

```



- \* to be done in the DCT itself.
- \* The primary disadvantage of this method is that with a fixed-point
- \* implementation, accuracy is lost due to imprecise representation of the
- \* scaled quantization values. However, that problem does not arise if
- \* we use floating point arithmetic.
- \*/

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jfdctflt.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jQuery JavaScript Library v1.3.2
 * http://jquery.com/
 *
 * Copyright (c) 2009 John Resig
 * Dual licensed under the MIT and GPL licenses.
 * http://docs.jquery.com/License
 *
 * Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
 * Revision: 6246
 */

/*
 * Sizzle CSS Selector Engine - v0.9.3
 * Copyright 2009, The Dojo Foundation
 * Released under the MIT, BSD, and GPL Licenses.
 * More information: http://sizzlejs.com/
 */

/*
 * jQuery UI 1.7.2
 *
 * Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
 * Dual licensed under the MIT (MIT-LICENSE.txt)
 * and GPL (GPL-LICENSE.txt) licenses.
 *
 * http://docs.jquery.com/UI
 */

/**
 * jQuery.ScrollTo - Easy element scrolling using jQuery.
 * Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
 * Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
 * Date: 2/8/2008
 * @author Ariel Flesler
 * @version 1.3.2
 */
```

Found in path(s):



\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/doc/html/jquery.js

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# - Redistributions of source code must retain the above copyright notice,  
# this list of conditions and the following disclaimer.  
# - Redistributions in binary form must reproduce the above copyright notice,  
# this list of conditions and the following disclaimer in the documentation  
# - Neither the name of the libjpeg-turbo Project nor the names of its  
# software without specific prior written permission.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/release/uninstall.in

No license file was found, but licenses were detected in source scan.

/\*

\* jdmerge.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB

\* Modifications:

\* Copyright (C) 2009, 2011, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains code for merged upsampling/color conversion.

\*

\* This file combines functions from jdsample.c and jdcolor.c;

\* read those files first to understand what's going on.

\*

\* When the chroma components are to be upsampled by simple replication

\* (ie, box filtering), we can save some work in color conversion by

\* calculating all the output pixels corresponding to a pair of chroma

\* samples at one time. In the conversion equations

\*  $R = Y + K1 * Cr$

\*  $G = Y + K2 * Cb + K3 * Cr$

\*  $B = Y + K4 * Cb$

\* only the Y term varies among the group of pixels corresponding to a pair

\* of chroma samples, so the rest of the terms can be calculated just once.

\* At typical sampling ratios, this eliminates half or three-quarters of the

\* multiplications needed for color conversion.

\*

\* This file currently provides implementations for the following cases:

\* YCbCr => RGB color conversion only.



- \* Sampling ratios of 2h1v or 2h2v.
- \* No scaling needed at upsample time.
- \* Corner-aligned (non-CCIR601) sampling alignment.
- \* Other special cases could be added, but in most applications these are
- \* the only common cases. (For uncommon cases we fall back on the more
- \* general code in jdsample.c and jdcolor.c.)
- \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdmerge.c

No license file was found, but licenses were detected in source scan.

/\*

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\*

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 \* modification, are permitted provided that the following conditions are met:

\*

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 \* this list of conditions and the following disclaimer in the documentation  
 \* and/or other materials provided with the distribution.
- \* - Neither the name of the libjpeg-turbo Project nor the names of its  
 \* contributors may be used to endorse or promote products derived from this  
 \* software without specific prior written permission.

\*

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 \* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR  
 \* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF  
 \* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS  
 \* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN  
 \* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)  
 \* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE  
 \* POSSIBILITY OF SUCH DAMAGE.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/TJExample.java

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/java/TJUnitTest.java

No license file was found, but licenses were detected in source scan.



```

/*
 * wrbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * This code contributed by James Arthur Boucher.
 */

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-
1.3.0/wrbmp.c

```

No license file was found, but licenses were detected in source scan.

```

/*
 * cjpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2003-2011 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options] inputfile outputfile
 * cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax

```



\* cjpeg [options] -outfile outputfile inputfile  
\* works regardless of which command line style is used.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/cjpeg.c

No license file was found, but licenses were detected in source scan.

/\*

\* jdmarker.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1991-1998, Thomas G. Lane.

\* Modifications:

\* Copyright (C) 2012, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains routines to decode JPEG datastream markers.

\* Most of the complexity arises from our desire to support input

\* suspension: if not all of the data for a marker is available,

\* we must exit back to the application. On resumption, we reprocess

\* the marker.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdmarker.c

No license file was found, but licenses were detected in source scan.

/\*

\* jquant1.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1991-1996, Thomas G. Lane.

\* Modifications:

\* Copyright (C) 2009, D. R. Commander

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains 1-pass color quantization (color mapping) routines.

\* These routines provide mapping to a fixed color map using equally spaced

\* color values. Optional Floyd-Steinberg or ordered dithering is available.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jquant1.c



No license file was found, but licenses were detected in source scan.

```
;
; jcolsamp.inc - private declarations for color conversion & up/downsampling
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]
```

```
; -----
```

```
; pseudo-resisters to make ordering of RGB configurable
```

```
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif
```

```
%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
```



```

#define xmmC xmm2
#define xmmD xmm3
%elif RGB_BLUE == 1
#define mmC mm4
#define mmD mm5
#define xmmC xmm4
#define xmmD xmm5
%else
#define mmC mm6
#define mmD mm7
#define xmmC xmm6
#define xmmD xmm7
#endif

```

```

%if RGB_RED == 2
#define mmE mm0
#define mmF mm1
#define xmmE xmm0
#define xmmF xmm1
%elif RGB_GREEN == 2
#define mmE mm2
#define mmF mm3
#define xmmE xmm2
#define xmmF xmm3
%elif RGB_BLUE == 2
#define mmE mm4
#define mmF mm5
#define xmmE xmm4
#define xmmF xmm5
%else
#define mmE mm6
#define mmF mm7
#define xmmE xmm6
#define xmmF xmm7
#endif

```

```

%if RGB_RED == 3
#define mmG mm0
#define mmH mm1
#define xmmG xmm0
#define xmmH xmm1
%elif RGB_GREEN == 3
#define mmG mm2
#define mmH mm3
#define xmmG xmm2
#define xmmH xmm3
%elif RGB_BLUE == 3
#define mmG mm4

```



```
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif
```

```
; -----
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jcolsamp.inc
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jinput.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuft.c, and jdphuff.c.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jinput.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jquant2.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 2-pass color quantization (color mapping) routines.
 * These routines provide selection of a custom color map for an image,
```



- \* followed by mapping of the image to that color map, with optional
- \* Floyd-Steinberg dithering.
- \* It is also possible to use just the second pass to map to an arbitrary
- \* externally-given color map.
- \*
- \* Note: ordered dithering is not supported, since there isn't any fast
- \* way to compute intercolor distances; it's unclear that ordered dither's
- \* fundamental assumptions even hold with an irregularly spaced color map.
- \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jquant2.c

No license file was found, but licenses were detected in source scan.

## IJG JPEG LIBRARY: CODING RULES

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This file is part of the Independent JPEG Group's software.

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Since numerous people will be contributing code and bug fixes, it's important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see `jpeg/doc/cstyle.ms.tbl.Z`, or `cstyle.txt.Z` for those without `nroff/tbl`).

Block comments should be laid out thusly:

```
/*
 * Block comments in this style.
 */
```

We indent statements in K&R style, e.g.,

```
if (test) {
 then-part;
} else {
 else-part;
}
```

with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g., `multi_word_name` (not `multiWordName`). Preprocessor symbols and enum constants



are similar but upper case (MULTI\_WORD\_NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

```
LOCAL(int *)
function_name (int a, char *b)
{
 code...
}
```

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

```
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist) type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist) type (*methodname) ()
#endif
```

which is used like this:

```
struct function_pointers {
 JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
 JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size\_t is defined as long. Needless to say,



this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size\_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.
2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg\_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED\_SHORT\_EXTERNAL\_NAMES is set.
3. Don't use global variables; anything that must be used in another module should be in the common data structures.
4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).
5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/coderules.txt
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* jidctfst.c
```

```
*
```

```
* Copyright (C) 1994-1998, Thomas G. Lane.
```

```
* This file is part of the Independent JPEG Group's software.
```



- \* For conditions of distribution and use, see the accompanying README file.
- \*
- \* This file contains a fast, not so accurate integer implementation of the
- \* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
- \* must also perform dequantization of the input coefficients.
- \*
- \* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
- \* on each row (or vice versa, but it's more convenient to emit a row at
- \* a time). Direct algorithms are also available, but they are much more
- \* complex and seem not to be any faster when reduced to code.
- \*
- \* This implementation is based on Arai, Agui, and Nakajima's algorithm for
- \* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
- \* Japanese, but the algorithm is described in the Pennebaker & Mitchell
- \* JPEG textbook (see REFERENCES section in file README). The following code
- \* is based directly on figure 4-8 in P&M.
- \* While an 8-point DCT cannot be done in less than 11 multiplies, it is
- \* possible to arrange the computation so that many of the multiplies are
- \* simple scalings of the final outputs. These multiplies can then be
- \* folded into the multiplications or divisions by the JPEG quantization
- \* table entries. The AA&N method leaves only 5 multiplies and 29 adds
- \* to be done in the DCT itself.
- \* The primary disadvantage of this method is that with fixed-point math,
- \* accuracy is lost due to imprecise representation of the scaled
- \* quantization values. The smaller the quantization table entry, the less
- \* precise the scaled value, so this implementation does worse with high-
- \* quality-setting files than with low-quality ones.
- \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jidctfst.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jdarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 * (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */
```



Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdarith.c

No license file was found, but licenses were detected in source scan.

/\*

\* jdatadst.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* Modified 2009-2012 by Guido Vollbeding.

\* Modifications:

\* Copyright (C) 2013, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains compression data destination routines for the case of

\* emitting JPEG data to memory or to a file (or any stdio stream).

\* While these routines are sufficient for most applications,

\* some will want to use a different destination manager.

\* IMPORTANT: we assume that fwrite() will correctly transcribe an array of

\* JOCTETs into 8-bit-wide elements on external storage. If char is wider

\* than 8 bits on your machine, you may need to do some tweaking.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdatadst.c

No license file was found, but licenses were detected in source scan.

/\*

\* jpegint.h

\*

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* Modified 1997-2009 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file provides common declarations for the various JPEG modules.

\* These declarations are considered internal to the JPEG library; most

\* applications using the library shouldn't need to include this file.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jpegint.h

No license file was found, but licenses were detected in source scan.



```

/*
 * jdphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines for progressive JPEG.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdphuff.c

```

No license file was found, but licenses were detected in source scan.

```

/*
 * wrtle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/wrtle.c

```

No license file was found, but licenses were detected in source scan.

```

/*
 * jdphuff.c
 *
 * This file was part of the Independent JPEG Group's software:

```



- \* Copyright (C) 1991-1997, Thomas G. Lane.
- \* Modifications:
- \* Copyright (C) 2009-2011, D. R. Commander.
- \* For conditions of distribution and use, see the accompanying README file.
- \*
- \* This file contains Huffman entropy decoding routines.
- \*
- \* Much of the complexity here has to do with supporting input suspension.
- \* If the data source module demands suspension, we want to be able to back
- \* up to the start of the current MCU. To do this, we copy state variables
- \* into local working storage, and update them back to the permanent
- \* storage only upon successful completion of an MCU.
- \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdhuff.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jdhuff.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for Huffman entropy decoding routines
 * that are shared between the sequential decoder (jdhuff.c) and the
 * progressive decoder (jdphuff.c). No other modules need to see these.
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdhuff.h

No license file was found, but licenses were detected in source scan.

Package: {\_\_PKGNAME}

Version: {\_\_VERSION}-{\_\_BUILD}

Section: misc

Priority: optional

Architecture: {\_\_ARCH}

Essential: no

Maintainer: The libjpeg-turbo Project [<http://www.libjpeg-turbo.org>]

Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2,

NEON) to accelerate baseline JPEG compression and decompression on x86,



x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/release/deb-control.tmpl

No license file was found, but licenses were detected in source scan.

/\*

\* jdct.h

\*

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This include file contains common declarations for the forward and

\* inverse DCT modules. These declarations are private to the DCT managers

\* (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.

\* The individual DCT algorithms are kept in separate files to ease

\* machine-dependent tuning (e.g., assembly coding).

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jdct.h

No license file was found, but licenses were detected in source scan.

/\*

\* wrtarga.c

\*

\* Copyright (C) 1991-1996, Thomas G. Lane.



- \* This file is part of the Independent JPEG Group's software.
- \* For conditions of distribution and use, see the accompanying README file.
- \*
- \* This file contains routines to write output images in Targa format.
- \*
- \* These routines may need modification for non-Unix environments or
- \* specialized applications. As they stand, they assume output to
- \* an ordinary stdio stream.
- \*
- \* Based on code contributed by Lee Daniel Crocker.
- \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/wrtarga.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jsimd_x86_64.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on a
 * x86_64 architecture.
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/simd/jsimd\_x86\_64.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jidctint.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modification developed 2002-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
```



- \*
  - \* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
  - \* on each row (or vice versa, but it's more convenient to emit a row at
  - \* a time). Direct algorithms are also available, but they are much more
  - \* complex and seem not to be any faster when reduced to code.
- \*
  - \* This implementation is based on an algorithm described in
  - \* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
  - \* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
  - \* Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.
  - \* The primary algorithm described there uses 11 multiplies and 29 adds.
  - \* We use their alternate method with 12 multiplies and 32 adds.
  - \* The advantage of this method is that no data path contains more than one
  - \* multiplication; this allows a very simple and accurate implementation in
  - \* scaled fixed-point arithmetic, with a minimal number of shifts.
- \*
  - \* We also provide IDCT routines with various output sample block sizes for
  - \* direct resolution reduction or enlargement without additional resampling:
  - \* NxN (N=1...16) pixels for one 8x8 input DCT block.
- \*
  - \* For N<8 we simply take the corresponding low-frequency coefficients of
  - \* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
  - \* to yield the downscaled outputs.
  - \* This can be seen as direct low-pass downsampling from the DCT domain
  - \* point of view rather than the usual spatial domain point of view,
  - \* yielding significant computational savings and results at least
  - \* as good as common bilinear (averaging) spatial downsampling.
- \*
  - \* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
  - \* lower frequencies and higher frequencies assumed to be zero.
  - \* It turns out that the computational effort is similar to the 8x8 IDCT
  - \* regarding the output size.
  - \* Furthermore, the scaling and descaling is the same for all IDCT sizes.
- \*
  - \* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
  - \* since there would be too many additional constants to pre-calculate.
- \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jidctint.c

No license file was found, but licenses were detected in source scan.

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reasons for developing this free software was to help force convergence on

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007373602\_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/README

No license file was found, but licenses were detected in source scan.

```
/*
 * jconfig.txt
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file documents the configuration options that are required to
 * customize the JPEG software for a particular system.
 *
 * The actual configuration options for a particular installation are stored
 * in jconfig.h. On many machines, jconfig.h can be generated automatically
 * or copied from one of the "canned" jconfig files that we supply. But if
 * you need to generate a jconfig.h file by hand, this file tells you how.
 *
 * DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
 * EDIT A COPY NAMED JCONFIG.H.
 */
```

```
/*
 * These symbols indicate the properties of your machine or compiler.
 * #define the symbol if yes, #undef it if no.
 */
```

```
/* Does your compiler support function prototypes?
 * (If not, you also need to use ansi2knr, see install.txt)
 */
```

```
#define HAVE_PROTOTYPES
```

```
/* Does your compiler support the declaration "unsigned char" ?
 * How about "unsigned short" ?
 */
```

```
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT
```

```
/* Define "void" as "char" if your compiler doesn't know about type void.
 * NOTE: be sure to define void such that "void *" represents the most general
 * pointer type, e.g., that returned by malloc().
 */
/* #define void char */
```



```

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
*/
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
*/
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
*/
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)
*/
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
* actually get "missing structure definition" warnings or errors while

```



```

* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems.
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/

#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/

#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED /* BMP image file format */
#define GIF_SUPPORTED /* GIF image file format */
#define PPM_SUPPORTED /* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED /* Utah RLE image file format */
#define TARGA_SUPPORTED /* Targa image file format */

```



```
/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjpeg.c or djpeg.c.
```

```
*/
```

```
#undef TWO_FILE_COMMANDLINE
```

```
/* Define this if your system needs explicit cleanup of temporary files.
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it's not as important.
```

```
*/
```

```
#undef NEED_SIGNAL_CATCHER
```

```
/* By default, we open image files with fopen(...,"rb") or fopen(...,"wb").
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don't. If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
```

```
*/
```

```
#undef DONT_USE_B_MODE
```

```
/* Define this if you want percent-done progress reports from cjpeg/djpeg.
```

```
*/
```

```
#undef PROGRESS_REPORT
```

```
#endif /* JPEG_CJPEG_DJPEG */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jconfig.txt
```

No license file was found, but licenses were detected in source scan.

## USING THE IJG JPEG LIBRARY

This file was part of the Independent JPEG Group's software:

Copyright (C) 1994-2011, Thomas G. Lane, Guido Vollbeding.

Modifications:

Copyright (C) 2010, D. R. Commander.

For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists.



The library source code, of course, is the ultimate reference.

Note that there have been \*major\* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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-----

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

## OVERVIEW

=====



## Functions provided by the library

-----

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *\*not\** provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

- \* Hierarchical storage
- \* Lossless JPEG
- \* DNL marker
- \* Nonintegral subsampling ratios

We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage



-----  
The rough outline of a JPEG compression operation is:

```
Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
 jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object
```

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to `jpeg_write_scanlines()` from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

```
Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
 jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object
```

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors



can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to `jpeg_read_scanlines()`.

It is possible to abort an incomplete compression or decompression operation by calling `jpeg_abort()`; or, if you do not need to retain the JPEG object, simply release it by calling `jpeg_destroy()`.

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as `jpeg_destroy()` can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

## BASIC LIBRARY USAGE

=====

### Data formats

-----

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

**PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE.**

A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for



example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS\_IN\_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS\_IN\_JSAMPLE = 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

## Compression details

-----

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg\_compress\_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the



application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg\_error\_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg\_error\_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg\_create\_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg\_create\_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

## 2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
 fprintf(stderr, "can't open %s\n", filename);
 exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```



where the last line invokes the standard destination module.

**WARNING:** it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg\_start\_compress() and jpeg\_finish\_compress().

### 3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

image\_width Width of image, in pixels  
image\_height Height of image, in pixels  
input\_components Number of color channels (samples per pixel)  
in\_color\_space Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input\_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in\_color\_space field must be assigned one of the J\_COLOR\_SPACE enum constants, typically JCS\_RGB or JCS\_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg\_set\_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in\_color\_space correctly before calling jpeg\_set\_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg\_start\_compress(). There's no harm in calling jpeg\_set\_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```
cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
```



```
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */
```

4. jpeg\_start\_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg\_start\_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```
jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg\_start\_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)  
jpeg\_write\_scanlines(...);

Now write all the required image data by calling jpeg\_write\_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next\_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like



```
"while (cinfo.next_scanline < cinfo.image_height)".
```

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
 row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
 jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg\_write\_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

- \* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
- \* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of next\_scanline.

#### 6. jpeg\_finish\_compress(...);

After all the image data has been written, call jpeg\_finish\_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination.

jpeg\_finish\_compress() also releases working memory associated with the JPEG object.

Typical code:

```
jpeg_finish_compress(&cinfo);
```

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg\_finish\_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg\_finish\_compress() may take quite a while to complete. With the default compression parameters, this will



not happen.

It is an error to call `jpeg_finish_compress()` before writing the necessary total number of scanlines. If you wish to abort compression, call `jpeg_abort()` as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call `jpeg_set_defaults()` to adjust for the new colorspace; and then you'll need to repeat all of step 3.

#### 7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling `jpeg_destroy_compress()`. This will free all subsidiary memory (regardless of the previous state of the object). Or you can call `jpeg_destroy()`, which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, `jpeg_destroy()` should be passed a `j_common_ptr`.)

If you allocated the `jpeg_compress_struct` structure from `malloc()`, freeing it is your responsibility --- `jpeg_destroy()` won't. Ditto for the error handler structure.

Typical code:

```
jpeg_destroy_compress(&cinfo);
```

#### 8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

- \* If you don't need the JPEG object any more, just call `jpeg_destroy_compress()` or `jpeg_destroy()` to release memory. This is legitimate at any point after calling `jpeg_create_compress()` --- in fact, it's safe even if `jpeg_create_compress()` fails.

- \* If you want to re-use the JPEG object, call `jpeg_abort_compress()`, or call



`jpeg_abort()` which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. `jpeg_abort()` is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call `term_destination()`. (See "Compressed data handling", below, for more about that.)

`jpeg_destroy()` and `jpeg_abort()` are the only safe calls to make on a JPEG object that has reported an error by calling `error_exit` (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

## Decompression details

-----

Here we revisit the JPEG decompression outline given in the overview.

### 1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct `jpeg_decompress_struct`" and you call `jpeg_create_decompress()`. Error handling is exactly the same.

Typical code:

```
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

### 2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```
FILE * infile;
```



```

...
if ((infile = fopen(filename, "rb")) == NULL) {
 fprintf(stderr, "can't open %s\n", filename);
 exit(1);
}
jpeg_stdio_src(&cinfo, infile);

```

where the last line invokes the standard source module.

**WARNING:** it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg\_read\_header() and jpeg\_finish\_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg\_read\_header() to jpeg\_finish\_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg\_read\_header() to obtain image info.

Typical code for this step is just

```
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

- \* A suspending data source is used --- in that case jpeg\_read\_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
- \* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg\_destroy() when you are done with the JPEG object, or call jpeg\_abort() to return it to an idle state before selecting a new data source and reading another header.



#### 4. Set parameters for decompression.

`jpeg_read_header()` sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to `jpeg_read_header()`.

If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression.

You must set desired parameter values each time.

#### 5. `jpeg_start_decompress(...)`;

Once the parameter values are satisfactory, call `jpeg_start_decompress()` to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

```
jpeg_start_decompress(&cinfo);
```

If you have requested a multi-pass operating mode, such as 2-pass color quantization, `jpeg_start_decompress()` will do everything needed before data output can begin. In this case `jpeg_start_decompress()` may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; `jpeg_start_decompress()` will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

`output_width` image width and height, as scaled  
`output_height`  
`out_color_components` # of color components in `out_color_space`  
`output_components` # of color components returned per pixel  
`colormap` the selected colormap, if any  
`actual_number_of_colors` number of entries in colormap



output\_components is 1 (a colormap index) when quantizing colors; otherwise it equals out\_color\_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output\_width \* output\_components JSAMPLEs per scanline in your output buffer, and a total of output\_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers \*before\* calling jpeg\_start\_decompress(). This is a little tricky since the output\_XXX fields are not normally valid then. You can make them valid by calling jpeg\_calc\_output\_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

```
6. while (scan lines remain to be read)
 jpeg_read_scanlines(...);
```

Now you can read the decompressed image data by calling jpeg\_read\_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg\_read\_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output\_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output\_scanline < cinfo.output\_height)". (Note that the test should NOT be against image\_height, unless you never use scaling. The image\_height field is the height of the original unscaled image.) The return value always equals the change in the value of output\_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg\_read\_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg\_read\_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg\_read\_scanlines() repeatedly until the



whole image has been read.

#### 7. jpeg\_finish\_decompress(...);

After all the image data has been read, call `jpeg_finish_decompress()` to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

```
jpeg_finish_decompress(&cinfo);
```

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call `jpeg_finish_decompress()` before reading the correct total number of scanlines. If you wish to abort decompression, call `jpeg_abort()` as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

#### 8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling `jpeg_destroy_decompress()` or `jpeg_destroy()`. The previous discussion of destroying compression objects applies here too.

Typical code:

```
jpeg_destroy_decompress(&cinfo);
```

#### 9. Aborting.

You can abort a decompression cycle by calling `jpeg_destroy_decompress()` or `jpeg_destroy()` if you don't need the JPEG object any more, or `jpeg_abort_decompress()` or `jpeg_abort()` if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

-----



Applications using the JPEG library should include the header file `jpeglib.h` to obtain declarations of data types and routines. Before including `jpeglib.h`, include system headers that define at least the typedefs `FILE` and `size_t`. On ANSI-conforming systems, including `<stdio.h>` is sufficient; on older Unix systems, you may need `<sys/types.h>` to define `size_t`.

If the application needs to refer to individual JPEG library error codes, also include `jerror.h` to define those symbols.

`jpeglib.h` indirectly includes the files `jconfig.h` and `jmorecfg.h`. If you are installing the JPEG header files in a system directory, you will want to install all four files: `jpeglib.h`, `jerror.h`, `jconfig.h`, `jmorecfg.h`.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("`libjpeg.a`", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build `libjpeg.a` automatically (see `install.txt`).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *\*not\** guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the `jmemdos.c` memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See `cjpeg.c` or `djpeg.c` for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use `jmemnobs.c` (or another memory manager of your own devising). More info about the minimum system library requirements may be found in `jinclude.h`.

## ADVANCED FEATURES

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## Compression parameter selection

-----

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call `jpeg_set_defaults()` first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling `cinfo` fields directly.

The helper routines are:

`jpeg_set_defaults (j_compress_ptr cinfo)`

This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field `in_color_space`, which must already be set in `cinfo`). Many applications will only need to use this routine and perhaps `jpeg_set_quality()`.

`jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)`

Sets the JPEG file's colorspace (field `jpeg_color_space`) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call `jpeg_set_colorspace()` before rather than after.

`jpeg_default_colorspace (j_compress_ptr cinfo)`

Selects an appropriate JPEG colorspace based on `cinfo->in_color_space`, and calls `jpeg_set_colorspace()`. This is actually a subroutine of `jpeg_set_defaults()`. It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

`jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)`

Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the `force_baseline` parameter is `TRUE`, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents



very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when `force_baseline` is `FALSE`, but other decoders may not be.

`jpeg_set_linear_quality` (`j_compress_ptr` cinfo, `int` scale\_factor,  
    `boolean` force\_baseline)

Same as `jpeg_set_quality()` except that the generated tables are the sample tables given in the JPEG spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus `scale_factor = 100` reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. `force_baseline` again constrains the computed table entries to 1..255.

`int` `jpeg_quality_scaling` (`int` quality)

Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

`jpeg_default_qtables` (`j_compress_ptr` cinfo, `boolean` force\_baseline)  
[libjpeg v7+ API/ABI emulation only]

Set default quantization tables with linear `q_scale_factor[]` values (see below).

`jpeg_add_quant_table` (`j_compress_ptr` cinfo, `int` which\_tbl,  
    `const unsigned int` \*basic\_table,  
    `int` scale\_factor, `boolean` force\_baseline)

Allows an arbitrary quantization table to be created. `which_tbl` indicates which table slot to fill. `basic_table` points to an array of 64 unsigned ints given in normal array order. These values are multiplied by `scale_factor/100` and then clamped to the range 1..65535 (or to 1..255 if `force_baseline` is `TRUE`).

CAUTION: prior to library version 6a, `jpeg_add_quant_table` expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like `"#if JPEG_LIB_VERSION >= 61"` is the right test.

`jpeg_simple_progression` (`j_compress_ptr` cinfo)

Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.



Compression parameters (cinfo fields) include:

`J_DCT_METHOD` `dct_method`

Selects the algorithm used for the DCT step. Choices are:

`JDCT_ISLOW`: slow but accurate integer algorithm

`JDCT_IFAST`: faster, less accurate integer method

`JDCT_FLOAT`: floating-point method

`JDCT_DEFAULT`: default method (normally `JDCT_ISLOW`)

`JDCT_FASTEST`: fastest method (normally `JDCT_IFAST`)

The `JDCT_FLOAT` method is very slightly more accurate than the `JDCT_ISLOW` method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The `JDCT_IFAST` method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. `JDCT_DEFAULT` and `JDCT_FASTEST` are macros configurable by each installation.

`J_COLOR_SPACE` `jpeg_color_space`

`int` `num_components`

The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using `jpeg_set_color_space()` if you want to change these.

`boolean` `optimize_coding`

`TRUE` causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is `FALSE`, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is `TRUE`, you need not supply Huffman tables at all, and any you do supply will be overwritten.

`unsigned int` `restart_interval`

`int` `restart_in_rows`

To emit restart markers in the JPEG file, set one of these nonzero. Set `restart_interval` to specify the exact interval in MCU blocks. Set `restart_in_rows` to specify the interval in MCU rows. (If `restart_in_rows` is not 0, then `restart_interval` is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice. NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

`const jpeg_scan_info *` `scan_info`



int num\_scans

By default, scan\_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan\_info points to an array of scan definition records of length num\_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg\_simple\_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

int smoothing\_factor

If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write\_JFIF\_header

If TRUE, a JFIF APP0 marker is emitted. jpeg\_set\_defaults() and jpeg\_set\_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF\_major\_version

UINT8 JFIF\_minor\_version

The version number to be written into the JFIF marker.

jpeg\_set\_defaults() initializes the version to 1.01 (major=minor=1).

You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

UINT8 density\_unit

UINT16 X\_density

UINT16 Y\_density

The resolution information to be written into the JFIF marker; not used otherwise. density\_unit may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

boolean write\_Adobe\_marker

If TRUE, an Adobe APP14 marker is emitted. jpeg\_set\_defaults() and jpeg\_set\_colorspace() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write\_JFIF\_header and write\_Adobe\_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT\_TBL \* quant\_tbl\_ptrs[NUM\_QUANT\_TBLS]

Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should



be set via one of the above helper routines; `jpeg_add_quant_table()` is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

```
int q_scale_factor[NUM_QUANT_TBLS]
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG
quality levels chosen by the user must be converted to these scales
using jpeg_quality_scaling(). Here is an example that corresponds to
cjpeg -quality 90,70:
```

```
jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);
```

CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

```
cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;
```

```
JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
```

Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by `jpeg_set_defaults()`. If you need to allocate more table structures, `jpeg_alloc_huff_table()` may be used. Note that optimal Huffman tables can be computed for an image by setting `optimize_coding`, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

```
[libjpeg v7+ API/ABI emulation only]
```

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by `jpeg_start_compress()`. You can also call `jpeg_calc_jpeg_dimensions()` to obtain the values that will result



from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg\_width Actual dimensions of output image.  
JDIMENSION jpeg\_height

Per-component parameters are stored in the struct `cinfo.comp_info[i]` for component number `i`. Note that components here refer to components of the JPEG color space, \*not\* the source image color space. A suitably large `comp_info[]` array is allocated by `jpeg_set_defaults()`; if you choose not to use that routine, it's up to you to allocate the array.

int component\_id

The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h\_samp\_factor

int v\_samp\_factor

Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant\_tbl\_no

Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc\_tbl\_no

int ac\_tbl\_no

DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component\_index

Must equal the component's index in `comp_info[]`. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection

-----

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application.



(Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by `jpeg_read_header()` and may be useful to the application in choosing decompression parameters:

`JDIMENSION image_width` Width and height of image  
`JDIMENSION image_height`  
`int num_components` Number of color components  
`J_COLOR_SPACE jpeg_color_space` Colorspace of image  
`boolean saw_JFIF_marker` TRUE if a JFIF APP0 marker was seen  
`UINT8 JFIF_major_version` Version information from JFIF marker  
`UINT8 JFIF_minor_version`  
`UINT8 density_unit` Resolution data from JFIF marker  
`UINT16 X_density`  
`UINT16 Y_density`  
`boolean saw_Adobe_marker` TRUE if an Adobe APP14 marker was seen  
`UINT8 Adobe_transform` Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

`J_COLOR_SPACE out_color_space`  
Output color space. `jpeg_read_header()` sets an appropriate default based on `jpeg_color_space`; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to `JCS_GRAYSCALE` to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend `jdcolor.c` if you want an unusual conversion.

`unsigned int scale_num, scale_denom`  
Scale the image by the fraction `scale_num/scale_denom`. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are M/8 with all M from 1 to 16, or any reduced fraction thereof (such



as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean `quantize_colors`

If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if `quantize_colors` is TRUE.

int `desired_number_of_colors`

Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field).

Default 256. Ignored when the application supplies its own color map.

boolean `two_pass_quantize`

If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J\_DITHER\_MODE `dither_mode`

Selects color dithering method. Supported values are:

JDITHER\_NONE no dithering: fast, very low quality

JDITHER\_ORDERED ordered dither: moderate speed and quality

JDITHER\_FS Floyd-Steinberg dither: slow, high quality

Default is JDITHER\_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when `two_pass_quantize` is TRUE or when you supply an external color map, you'll get F-S dithering.)

When `quantize_colors` is TRUE, the target color map is described by the next two fields. `colormap` is set to NULL by `jpeg_read_header()`. The application can supply a color map by setting `colormap` non-NULL and setting `actual_number_of_colors` to the map size. Otherwise, `jpeg_start_decompress()` selects a suitable color map and sets these two fields itself.

[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY `colormap`

The color map, represented as a 2-D pixel array of `out_color_components` rows and `actual_number_of_colors` columns. Ignored if not quantizing.

CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by `jpeg_finish_decompress()`.

Copy the colormap somewhere else first, if you want to save it.

int `actual_number_of_colors`



The number of colors in the color map.

Additional decompression parameters that the application may set include:

`J_DCT_METHOD` `dct_method`

Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

`boolean` `do_fancy_upsampling`

If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

`boolean` `do_block_smoothing`

If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

`boolean` `enable_1pass_quant`

`boolean` `enable_external_quant`

`boolean` `enable_2pass_quant`

These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by `jpeg_start_decompress()`. You can also call `jpeg_calc_output_dimensions()` to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *\*before\** `jpeg_start_decompress()`.

`JDIMENSION` `output_width` Actual dimensions of output image.

`JDIMENSION` `output_height`

`int` `out_color_components` Number of color components in `out_color_space`.

`int` `output_components` Number of color components returned.

`int` `rec_outbuf_height` Recommended height of scanline buffer.

When quantizing colors, `output_components` is 1, indicating a single color map index per pixel. Otherwise it equals `out_color_components`. The output arrays are required to be `output_width * output_components` JSAMPLEs wide.

`rec_outbuf_height` is the recommended minimum height (in scanlines) of the



buffer passed to `jpeg_read_scanlines()`. If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, `rec_outbuf_height` is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring `rec_outbuf_height` so as to avoid data copying. (An output buffer larger than `rec_outbuf_height` lines is OK, but won't provide any material speed improvement over that height.)

## Special color spaces

-----

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely `RGB <=> YCbCr` and `CMYK <=> YCCK`). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field `in_color_space`. This is transformed to the JPEG file's color space given by `jpeg_color_space`. `jpeg_set_defaults()` chooses a reasonable JPEG color space depending on `in_color_space`, but you can override this by calling `jpeg_set_colorspace()`. Of course you must select a supported transformation. `jccolor.c` currently supports the following transformations:

`RGB => YCbCr`

`RGB => GRAYSCALE`

`YCbCr => GRAYSCALE`

`CMYK => YCCK`

plus the null transforms: `GRAYSCALE => GRAYSCALE`, `RGB => RGB`, `YCbCr => YCbCr`, `CMYK => CMYK`, `YCCK => YCCK`, and `UNKNOWN => UNKNOWN`.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. `jpeg_set_colorspace()` will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space.

For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting `in_color_space` and



jpeg\_color\_space to JCS\_YCbCr; use JCS\_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg\_set\_colorspace(), in jcpam.c, for details.

For decompression, the JPEG file's color space is given in jpeg\_color\_space, and this is transformed to the output color space out\_color\_space. jpeg\_read\_header's setting of jpeg\_color\_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg\_read\_header's guess by setting jpeg\_color\_space. jpeg\_read\_header also selects a default output color space based on (its guess of) jpeg\_color\_space; set out\_color\_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

YCbCr => RGB

YCbCr => GRAYSCALE

RGB => GRAYSCALE

GRAYSCALE => RGB

YCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.



## Error handling

-----

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

- \* Fatal errors: the library cannot continue.
- \* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
- \* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg\_std\_error() as usual, but then overriding some of the method pointers in the jpeg\_error\_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j\_common\_ptr which points to either a jpeg\_compress\_struct or a jpeg\_decompress\_struct; if you need to tell which, test the is\_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg\_error\_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client\_data" in each JPEG object, which the application can also use to find related data. The library does not touch client\_data at all.)

The individual methods that you might wish to override are:

error\_exit (j\_common\_ptr cinfo)

Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output\_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere.



Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg\_abort() or jpeg\_destroy().

output\_message (j\_common\_ptr cinfo)

Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format\_message (j\_common\_ptr cinfo, char \* buffer)

Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output\_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit\_message (j\_common\_ptr cinfo, int msg\_level)

Decide whether or not to emit a warning or trace message; if so, calls output\_message. The main reason for overriding this method would be to abort on warnings. msg\_level is -1 for warnings, 0 and up for trace messages.

Only error\_exit() and emit\_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg\_message\_table. The messages are numbered from 0 to err->last\_jpeg\_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon\_message\_table and the message numbers err->first\_addon\_message and err->last\_addon\_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:

ERREXITn(...) for fatal errors

WARNMSn(...) for corrupt-data warnings

TRACEMSn(...) for trace and informational messages.

These macros store the message code and any additional parameters into the error handler struct, then invoke the error\_exit() or emit\_message() method.



The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

#### Compressed data handling (source and destination managers)

-----

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer; /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty\_output\_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:



`init_destination (j_compress_ptr cinfo)`

Initialize destination. This is called by `jpeg_start_compress()` before any data is actually written. It must initialize `next_output_byte` and `free_in_buffer`. `free_in_buffer` must be initialized to a positive value.

`empty_output_buffer (j_compress_ptr cinfo)`

This is called whenever the buffer has filled (`free_in_buffer` reaches zero). In typical applications, it should write out the \*entire\* buffer (use the saved start address and buffer length; ignore the current state of `next_output_byte` and `free_in_buffer`). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. `free_in_buffer` must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

`term_destination (j_compress_ptr cinfo)`

Terminate destination --- called by `jpeg_finish_compress()` after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either `next_output_byte` or `free_in_buffer` to determine how much data is in the buffer.

`term_destination()` is NOT called by `jpeg_abort()` or `jpeg_destroy()`. If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a `jpeg_destination_mgr` struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the `jpeg_stdio_dest()` or `jpeg_mem_dest()` routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

```
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer; /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is emptied. The manager's `fill_input_buffer` method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:



`init_source (j_decompress_ptr cinfo)`

Initialize source. This is called by `jpeg_read_header()` before any data is actually read. Unlike `init_destination()`, it may leave `bytes_in_buffer` set to 0 (in which case a `fill_input_buffer()` call will occur immediately).

`fill_input_buffer (j_decompress_ptr cinfo)`

This is called whenever `bytes_in_buffer` has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of `next_input_byte` and `bytes_in_buffer`), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. `bytes_in_buffer` MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

`skip_input_data (j_decompress_ptr cinfo, long num_bytes)`

Skip `num_bytes` worth of data. The buffer pointer and count should be advanced over `num_bytes` input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. `bytes_in_buffer` may be zero on return. A zero or negative skip count should be treated as a no-op.

`resync_to_restart (j_decompress_ptr cinfo, int desired)`

This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, `jpeg_resync_to_restart()`. However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the `read_restart_marker()` and `jpeg_resync_to_restart()` routines in `jdmarker.c` if you think you'd like to implement your own resync procedure.

`term_source (j_decompress_ptr cinfo)`

Terminate source --- called by `jpeg_finish_decompress()` after all data has been read. Often a no-op.

For both `fill_input_buffer()` and `skip_input_data()`, there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via `ERREXIT()` or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker



is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. `jdatsrc.c` illustrates the recommended error recovery behavior.

`term_source()` is NOT called by `jpeg_abort()` or `jpeg_destroy()`. If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a `jpeg_source_mgr` struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the `jpeg_stdio_src()` or `jpeg_mem_src()` routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in `jdatsrc.c` and `jdatadst.c`.

## I/O suspension

-----

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the `empty_output_buffer()` or `fill_input_buffer()` routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

## Compression suspension:

For compression suspension, use an `empty_output_buffer()` routine that returns FALSE; typically it will not do anything else. This will cause the



compressor to return to the caller of `jpeg_write_scanlines()`, with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call `jpeg_write_scanlines()` again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although `empty_output_buffer()` is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of `next_output_byte/free_in_buffer`. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call `jpeg_write_scanlines()` unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

- \* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
- \* When you call `jpeg_finish_compress()`, there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling `jpeg_finish_compress()`.

A more significant restriction is that `jpeg_finish_compress()` cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during `jpeg_finish_compress()`, which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a `fill_input_buffer()` routine that simply



returns FALSE (except perhaps during error recovery, as discussed below).

This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

- \* `jpeg_read_header()`: will return `JPEG_SUSPENDED`.
- \* `jpeg_start_decompress()`: will return FALSE, rather than its usual TRUE.
- \* `jpeg_read_scanlines()`: will return the number of scanlines already completed (possibly 0).
- \* `jpeg_finish_decompress()`: will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of `jpeg_read_scanlines()`, increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When `fill_input_buffer()` is called, `next_input_byte/bytes_in_buffer` point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The `skip_input_data()` source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement `bytes_in_buffer` to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then `skip_input_data()` must set `bytes_in_buffer` to zero and record the additional skip distance somewhere else. The decompressor will immediately call `fill_input_buffer()`, which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within `fill_input_buffer()`; the latter is probably more efficient. If `fill_input_buffer()` knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally



not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling `skip_input_data()`. In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on `skip_input_data`'s shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

#### Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having `empty_output_buffer()` or `fill_input_buffer()` set the pointer and count to reference the next available buffer; `FALSE` is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when `FALSE` is returned could back up into an earlier buffer. For example, when `fill_input_buffer()` is called, the current pointer & count indicate the backtrack restart point. Since `fill_input_buffer()` will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to `fill_input_buffer()` occurs in the same library call, and no additional input data is available, so `fill_input_buffer` must return `FALSE`. If the JPEG library has not moved the pointer/count forward in the current buffer, then \*the correct restart point is the saved position in the prior buffer\*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a `skip_input_data()` call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when `fill_input_buffer()` is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.



Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan\_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg\_simple\_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found



in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan\_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg\_write\_scanlines() is called, and will emit all the requested scans during jpeg\_finish\_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg\_finish\_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

#### Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg\_start\_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg\_start\_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

#### Buffered-image mode

-----

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
 adjust output decompression parameters if required
```



```

jpeg_start_output() /* start a new output pass */
for (all scanlines in image) {
 jpeg_read_scanlines()
 display scanlines
}
jpeg_finish_output() /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()

```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to `jpeg_start_output()` indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and `jpeg_finish_output()` advances to the next scan or end-of-image marker (hence `input_scan_number` will be incremented by the time control arrives back at `jpeg_start_output()`). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the `jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()` sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call `jpeg_finish_decompress()` to release the buffered image (or just use `jpeg_destroy_decompress()`).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce



output. This is done by calling the routine `jpeg_consume_input()`.

The return value is one of the following:

`JPEG_REACHED_SOS`: reached an SOS marker (the start of a new scan)

`JPEG_REACHED_EOI`: reached the EOI marker (end of image)

`JPEG_ROW_COMPLETED`: completed reading one MCU row of compressed data

`JPEG_SCAN_COMPLETED`: completed reading last MCU row of current scan

`JPEG_SUSPENDED`: suspended before completing any of the above

(`JPEG_SUSPENDED` can occur only if a suspending data source is used.) This

routine can be called at any time after initializing the JPEG object. It

reads some additional data and returns when one of the indicated significant

events occurs. (If called after the EOI marker is reached, it will

immediately return `JPEG_REACHED_EOI` without attempting to read more data.)

The library's output processing will automatically call `jpeg_consume_input()`

whenever the output processing overtakes the input; thus, simple lockstep

display requires no direct calls to `jpeg_consume_input()`. But by adding

calls to `jpeg_consume_input()`, you can absorb data in advance of what is

being displayed. This has two benefits:

- \* You can limit buildup of unprocessed data in your input buffer.

- \* You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to

`jpeg_consume_input()` with your display operations and any other processing

you may be doing. To avoid wasting cycles due to backtracking, it's best to

call `jpeg_consume_input()` only after a hundred or so new bytes have arrived.

This is discussed further under "I/O suspension", above. (Note: the JPEG

library currently is not thread-safe. You must not call `jpeg_consume_input()`

from one thread of control if a different library routine is working on the

same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available

before you start a new output pass, you may as well skip the output pass

corresponding to the completed scan. This occurs for free if you pass

`cinfo.input_scan_number` as the target scan number to `jpeg_start_output()`.

The `input_scan_number` field is simply the index of the scan currently being

consumed by the input processor. You can ensure that this is up-to-date by

emptying the input buffer just before calling `jpeg_start_output()`: call

`jpeg_consume_input()` repeatedly until it returns `JPEG_SUSPENDED` or

`JPEG_REACHED_EOI`.

The target scan number passed to `jpeg_start_output()` is saved in the

`cinfo.output_scan_number` field. The library's output processing calls

`jpeg_consume_input()` whenever the current input scan number and row within

that scan is less than or equal to the current output scan number and row.

Thus, input processing can "get ahead" of the output processing but is not

allowed to "fall behind". You can achieve several different effects by

manipulating this interlock rule. For example, if you pass a target scan



number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what `jpeg_start_decompress()` does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, `jpeg_consume_input()` will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```
do {
 absorb any waiting input by calling jpeg_consume_input()
 final_pass = jpeg_input_complete(&cinfo);
 adjust output decompression parameters if required
 jpeg_start_output(&cinfo, cinfo.input_scan_number);
 ...
 jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as `jpeg_input_complete()` returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```
for (;;) {
```



```

 absorb any waiting input by calling jpeg_consume_input()
 jpeg_start_output(&cinfo, cinfo.input_scan_number);
 ...
 jpeg_finish_output()
 if (jpeg_input_complete(&cinfo) &&
 cinfo.input_scan_number == cinfo.output_scan_number)
 break;
}

```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG\_REACHED\_EOI return code from jpeg\_consume\_input(), or equivalently by testing jpeg\_input\_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg\_finish\_output() and then start a new pass with jpeg\_start\_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG\_REACHED\_SOS returns and/or examining cinfo.input\_scan\_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg\_consume\_input() until it returns JPEG\_REACHED\_SOS or JPEG\_REACHED\_EOI. Or just use the next higher number as the target scan for jpeg\_start\_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg\_start\_decompress() never performs input and thus never suspends. An application that uses input suspension with



buffered-image mode must be prepared for suspension returns from these routines:

- \* `jpeg_start_output()` performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)

- \* `jpeg_read_scanlines()`, as always, returns the number of scanlines that it was able to produce before suspending.

- \* `jpeg_finish_output()` will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if `jpeg_consume_input()` has already reached the end of the file or a SOS marker beyond the target output scan.)

- \* `jpeg_finish_decompress()` will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling `jpeg_input_complete()`).

`jpeg_start_output()`, `jpeg_finish_output()`, and `jpeg_finish_decompress()` all return TRUE if they completed their tasks, FALSE if they had to suspend.

In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after `jpeg_start_decompress()` is called:

- \* `dct_method` can be changed before each call to `jpeg_start_output()`.

For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.

- \* `dither_mode` can be changed before each call to `jpeg_start_output()`; of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial `max_memory_to_use` specification to be exceeded, which in the worst case would result in an out-of-memory failure.

- \* `do_block_smoothing` can be changed before each call to `jpeg_start_output()`. This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

- \* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.



When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display.

The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.

Selected by `cinfo.two_pass_quantize = FALSE` and `cinfo.colormap = NULL`.

2. Single-pass quantization to an application-supplied colormap.

Selected by setting `cinfo.colormap` to point to the colormap (the value of `two_pass_quantize` is ignored); also set `cinfo.actual_number_of_colors`.

3. Two-pass quantization to a colormap chosen specifically for the image.

Selected by `cinfo.two_pass_quantize = TRUE` and `cinfo.colormap = NULL`.

(This is the default setting selected by `jpeg_read_header`, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

**IMPORTANT:** because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call `jpeg_start_decompress()`. (If we did not require this, the `max_memory_to_use` setting would be a complete fiction.)

You do this by setting one or more of these three `cinfo` fields to `TRUE`:

`enable_1pass_quant` Fixed color cube colormap

`enable_external_quant` Externally-supplied colormap

`enable_2pass_quant` Two-pass custom colormap

All three are initialized `FALSE` by `jpeg_read_header()`. But

`jpeg_start_decompress()` automatically sets `TRUE` the one selected by the current `two_pass_quantize` and `colormap` settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at `jpeg_start_decompress()` time, you can change to any enabled quantization method by setting `two_pass_quantize` and `colormap` properly just before calling `jpeg_start_output()`. The following special rules apply:

1. You must explicitly set `cinfo.colormap` to `NULL` when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.

2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call `jpeg_new_colormap()` after setting `cinfo.colormap`.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because `cinfo.colormap` will always be non-`NULL` after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)



Note that in buffered-image mode, the library generates any requested colormap during `jpeg_start_output()`, not during `jpeg_start_decompress()`.

When using two-pass quantization, `jpeg_start_output()` makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, `jpeg_start_output()` will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from `jpeg_start_output()` under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which `jpeg_start_output()` will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling `jpeg_has_multiple_scans()`, which will return a correct result at any time after `jpeg_read_header()` completes.

It is also worth noting that when you use `jpeg_consume_input()` to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager `jmemnobs.c` if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that `max_memory_to_use` is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use `jpeg_consume_input()` for all input processing, including reading the initial markers; that is, you may wish to call `jpeg_consume_input()` instead of `jpeg_read_header()` during startup. This works, but note that you must check for `JPEG_REACHED_SOS` and `JPEG_REACHED_EOI` return codes as the equivalent of `jpeg_read_header's` codes. Once the first SOS marker has been reached, you must call `jpeg_start_decompress()` before `jpeg_consume_input()` will consume more input; it'll just keep returning `JPEG_REACHED_SOS` until you do. If you read a tables-only file this way, `jpeg_consume_input()` will return `JPEG_REACHED_EOI` without ever returning `JPEG_REACHED_SOS`; be sure to check for this case. If this happens, the decompressor will not read any more input until you call `jpeg_abort()` to reset it. It is OK to call `jpeg_consume_input()` even when not



using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG\_SUSPENDED.

## Abbreviated datastreams and multiple images

-----

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

- \* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
- \* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
- \* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent\_table",



which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets `sent_table = TRUE` unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling `jpeg_start_compress()` will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call `"jpeg_suppress_tables(&cinfo, TRUE)"` after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual `sent_table` fields directly.

To create an abbreviated image, you must also call `jpeg_start_compress()` with a second parameter of FALSE, not TRUE. Otherwise `jpeg_start_compress()` will force all the `sent_table` fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling `jpeg_start_compress()` and so on, call `jpeg_write_tables(&cinfo)`. This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their `sent_tables` flag is already TRUE, and then all the `sent_tables` flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

```
create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);
```

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the `jpeg_start_compress()` ... `jpeg_finish_compress()` sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set `optimize_coding = TRUE` when you are trying to produce abbreviated files.



In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See `jpeg_copy_critical_parameters()` for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```
if (cinfo.quant_tbl_ptrs[n] == NULL)
 cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++) {
 /* Qtable[] is desired quantization table, in natural array order */
 quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
 cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
 /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
 huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
 /* symbols[] is the list of Huffman symbols, in code-length order */
 huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set `cinfo.quant_tbl_ptrs[n]` to point directly at a constant `JQUANT_TBL` object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The `jpeg_read_header()` call is sufficient to read a tables-only file. You must pass a second parameter of `FALSE` to indicate that you do not require an image to be present. Thus, the typical scenario is



```
create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);
```

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass `FALSE` and check the return value from `jpeg_read_header()`: it will be `JPEG_HEADER_OK` if an image was found, `JPEG_HEADER_TABLES_ONLY` if only tables were found. (A third return value, `JPEG_SUSPENDED`, is possible when using a suspending data source manager.) Note that `jpeg_read_header()` will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in `jpeg_start_decompress()`.

It is possible to read a series of images from a single source file by repeating the `jpeg_read_header()` ... `jpeg_finish_decompress()` sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at `term_destination()` time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing `FALSE` to `jpeg_start_compress()`.

### Special markers

-----

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might



contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling `jpeg_write_marker()` after `jpeg_start_compress()` and before the first call to `jpeg_write_scanlines()`. When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG\_COM" for COM or "JPEG\_APP0 + n" for APPn. (Actually, `jpeg_write_marker` will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by `comment_text`:

```
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call `jpeg_write_m_header()` followed by multiple calls to `jpeg_write_m_byte()`. If you do it this way, it's your responsibility to call `jpeg_write_m_byte()` exactly the number of times given in the length parameter to `jpeg_write_m_header()`. (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.



If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set `cinfo.JFIF_minor_version = 2` so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:

1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling `jpeg_read_header()`, because the markers of interest will typically be near the head of the file and so will be scanned by `jpeg_read_header`. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call

`jpeg_save_markers(cinfo, marker_code, length_limit)`

where `marker_code` is the marker type to save, `JPEG_COM` or `JPEG_APP0+n`.

(To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than `length_limit` data bytes, only `length_limit` bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set `length_limit` to `0xFFFF`; that is enough since marker lengths are only 16 bits. As a special case, setting `length_limit` to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After `jpeg_read_header()` completes, you can examine the special markers by following the `cinfo->marker_list` pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed `length_limit` for the particular marker type. Note that these



lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which `jpeg_read_header` stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing `jpeg_read_header`, to ensure that the `max_memory_to_use` setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call `jpeg_finish_decompress` or `jpeg_abort`, at which point the memory is freed and the list is set to empty. (`jpeg_destroy` also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by `malloc()` limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling `jpeg_set_marker_processor()`. A marker processor routine must have the signature

```
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```

Although the marker code is not explicitly passed, the routine can find it in `cinfo->unread_marker`. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in `jdmarker.c` for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling `jpeg_save_markers()`; that method doesn't interfere with the library's own processing of these markers.)

`jpeg_set_marker_processor()` and `jpeg_save_markers()` are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.



A simple example of an external COM processor can be found in `djpeg.c`. Also, see `jpegtran.c` for an example of using `jpeg_save_markers`.

#### Raw (downsampled) image data

-----

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set `jpeg_color_space = in_color_space` (or `jpeg_color_space = out_color_space` for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call `jpeg_write_raw_data()` in place of `jpeg_write_scanlines()`. Before calling `jpeg_start_compress()`, you must do the following:

- \* Set `cinfo->raw_data_in` to TRUE. (It is set FALSE by `jpeg_set_defaults()`.) This notifies the library that you will be supplying raw data.
- \* Ensure `jpeg_color_space` is correct --- an explicit `jpeg_set_colorspace()` call is a good idea. Note that since color conversion is bypassed, `in_color_space` is ignored, except that `jpeg_set_defaults()` uses it to choose the default `jpeg_color_space` setting.
- \* Ensure the sampling factors, `cinfo->comp_info[i].h_samp_factor` and



`cinfo->comp_info[i].v_samp_factor`, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call `jpeg_write_raw_data()` in place of `jpeg_write_scanlines()`. The two routines work similarly except that `jpeg_write_raw_data` takes a `JSAMPIMAGE` data array rather than `JSAMPARRAY`. The scanlines count passed to and returned from `jpeg_write_raw_data` is measured in terms of the component with the largest `v_samp_factor`.

`jpeg_write_raw_data()` processes one MCU row per call, which is to say `v_samp_factor*DCTSIZE` sample rows of each component. The passed `num_lines` value must be at least `max_v_samp_factor*DCTSIZE`, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

`cinfo->comp_info[i].width_in_blocks*DCTSIZE` samples per row  
`cinfo->comp_info[i].height_in_blocks*DCTSIZE` rows in image  
after `jpeg_start_compress()` has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than `DCTSIZE` samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is

```
cinfo->comp_info[0].h_samp_factor = 2 for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1 for Cb
cinfo->comp_info[1].v_samp_factor = 1
cinfo->comp_info[2].h_samp_factor = 1 for Cr
cinfo->comp_info[2].v_samp_factor = 1
```

and suppose that the nominal image dimensions (`cinfo->image_width` and `cinfo->image_height`) are 101x101 pixels. Then `jpeg_start_compress()` will compute `downsampled_width = 101` and `width_in_blocks = 13` for Y, `downsampled_width = 51` and `width_in_blocks = 7` for Cb and Cr (and the same for the height fields). You must pad the Y data to at least  $13 \times 8 = 104$  columns and rows, the Cb/Cr data to at least  $7 \times 8 = 56$  columns and rows. The MCU height is `max_v_samp_factor = 2` DCT rows so you must pass at least 16 scanlines on each call to `jpeg_write_raw_data()`, which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of  $7 \times 16 = 112$  "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.



Output suspension is supported with raw-data compression: if the data destination module suspends, `jpeg_write_raw_data()` will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing: you cannot ask for rescaling or color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set `cinfo->raw_data_out = TRUE` before `jpeg_start_decompress()` (it is set `FALSE` by `jpeg_read_header()`). Be sure to verify that the color space and sampling factors are ones you can handle. Then call `jpeg_read_raw_data()` in place of `jpeg_read_scanlines()`. The decompression process is otherwise the same as usual.

`jpeg_read_raw_data()` returns one MCU row per call, and thus you must pass a buffer of at least `max_v_samp_factor*DCTSIZE` scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, `jpeg_read_raw_data()` will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients

-----

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do `jpeg_read_header()` as usual. But instead of calling `jpeg_start_decompress()` and `jpeg_read_scanlines()`, call `jpeg_read_coefficients()`. This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's `access_virt_barray` method (see Memory management, below,



and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to `jpeg_write_coefficients()`.

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the `width_in_blocks` and `height_in_blocks` fields of the component's `comp_info` entry.) This is also the data format expected by `jpeg_write_coefficients()`.

When you are done using the virtual arrays, call `jpeg_finish_decompress()` to release the array storage and return the decompression object to an idle state; or just call `jpeg_destroy()` if you don't need to reuse the object.

If you use a suspending data source, `jpeg_read_coefficients()` will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call `jpeg_read_coefficients()` to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call `jpeg_read_coefficients()` after the last `jpeg_finish_output()` call. The arrays will be available for your use until you call `jpeg_finish_decompress()`.

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by `jpeg_read_coefficients()`, or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, `jpeg_write_coefficients()` is substituted for `jpeg_start_compress()` and `jpeg_write_scanlines()`. Thus the sequence is

- \* Create compression object
- \* Set all compression parameters as necessary
- \* Request virtual arrays if needed
- \* `jpeg_write_coefficients()`
- \* `jpeg_finish_compress()`
- \* Destroy or re-use compression object

`jpeg_write_coefficients()` is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to `cinfo.num_components`.

The virtual arrays need only have been requested, not realized, before `jpeg_write_coefficients()` is called. A side-effect of



`jpeg_write_coefficients()` is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling `jpeg_write_coefficients()`. The data is actually written out when you call `jpeg_finish_compress()`; `jpeg_write_coefficients()` only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using `jpeg_copy_critical_parameters()`. This routine initializes all the compression parameters to default values (like `jpeg_set_defaults()`), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting `jpeg_finish_decompress()`.

`jpeg_write_coefficients()` marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like `jpeg_start_compress(cinfo, TRUE)`). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call `jpeg_suppress_tables()`, or set the tables' individual `sent_table` flags, between calling `jpeg_write_coefficients()` and `jpeg_finish_compress()`.

#### Progress monitoring

-----

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see `cjpeg.c` or `djpeg.c`.) Although you do get control back frequently during the data-transferring pass (the `jpeg_read_scanlines` or `jpeg_write_scanlines` loop), any additional passes will occur inside `jpeg_finish_compress` or `jpeg_start_decompress`; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of `jpeg_read_scanlines` or `jpeg_write_scanlines`, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)



To establish a progress-monitor callback, create a struct `jpeg_progress_mgr`, fill in its `progress_monitor` field with a pointer to your callback routine, and set `cinfo->progress` to point to the struct. The callback will be called whenever `cinfo->progress` is non-NULL. (This pointer is set to NULL by `jpeg_create_compress` or `jpeg_create_decompress`; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime `JPOOL_PERMANENT` will work nicely.) You can use the same callback routine for both compression and decompression.

The `jpeg_progress_mgr` struct contains four fields which are set by the library:

```
long pass_counter; /* work units completed in this pass */
long pass_limit; /* total number of work units in this pass */
int completed_passes; /* passes completed so far */
int total_passes; /* total number of passes expected */
```

During any one pass, `pass_counter` increases from 0 up to (not including) `pass_limit`; the step size is usually but not necessarily 1. The `pass_limit` value may change from one pass to another. The expected total number of passes is in `total_passes`, and the number of passes already completed is in `completed_passes`. Thus the fraction of work completed may be estimated as

$$\frac{\text{completed\_passes} + (\text{pass\_counter}/\text{pass\_limit})}{\text{total\_passes}}$$

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, `pass_limit` can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets `total_passes` based on the assumption that there will be one more output pass if the input file end hasn't yet been read (`jpeg_input_complete()` isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that `total_passes` will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

## Memory management

This section covers some key facts about the JPEG library's built-in memory



manager. For more info, please read `structure.txt`'s section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use `malloc()` and `free()` for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by `jpeg_finish_compress`, `jpeg_finish_decompress`, or `jpeg_abort`. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use `JPOOL_PERMANENT` to get storage that lasts as long as the JPEG object. Use `alloc_large` instead of `alloc_small` for anything bigger than a few Kbytes. There are also `alloc_sarray` and `alloc_barray` routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (`jmemnobs.c`), then no temporary files are used; virtual arrays are simply `malloc()`'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting `cinfo->mem->max_memory_to_use` after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before `jpeg_start_compress()` or `jpeg_start_decompress()` in order to have them counted against the max memory limit. Also keep in mind that space allocated with `alloc_small()` is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting `max_memory_to_use`.

If you use the `jmemname.c` or `jmemdos.c` memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with `jmemdos.c`, where the



"temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either `jpeg_abort()` or `jpeg_destroy()` for any active JPEG objects. A handler is not needed with `jmemnobs.c`, and shouldn't be necessary with `jmemansi.c` or `jmemmac.c` either, since the C library is supposed to take care of deleting files made with `tmpfile()`.

## Memory usage

-----

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:

1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes \* width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel).

This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use `jmemnobs` and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need



for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM\_STATS code in jmemmgr.c.

#### Library compile-time options

-----

A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS\_IN\_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.) At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED\_SHORT\_EXTERNAL\_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX\_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional



functions. To do this, undefine `xxx_SUPPORTED` symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (`jpeg_std_message_table[]`) from `jerror.c`, and alter `format_message` to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the `TRACEMSn()` macros in `jerror.h` to expand to nothing; you don't need trace capability anyway, right?

#### Portability considerations

-----

The JPEG library has been written to be extremely portable; the sample applications `cjpeg` and `djpeg` are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See `install.txt` for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that

- char is at least 8 bits wide
- short is at least 16 bits wide
- int is at least 16 bits wide
- long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in `jmorecfg.h`. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine `JOCTET` and/or provide custom data source/destination managers so that `JOCTET` represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters.



But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select\_file\_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED\_SHORT\_EXTERNAL\_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors

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The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.



Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/libjpeg.txt
```

No license file was found, but licenses were detected in source scan.

```
/*
* jsimd.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007373602_1589175158.46/0/libjpeg-turbo-1-3-0-orig-1-tar-gz/libjpeg-turbo-1.3.0/jsimd.h
```

No license file was found, but licenses were detected in source scan.

```
/*
* jccolext.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input colorspace conversion routines.
*/
```

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# 1.405 openvpn 2.3.2-7ubuntu3.2

## 1.405.1 Available under license :

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./Makefile MAKE 2003,2004,2005,2006,2007,2009,2011
./README X 2003,2004,2005,2006,2007
./TODO X 2003,2004,2005,2006,2007
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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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## 1.409 liblog-message-simple-perl 0.10-1

## 1.410 procps 3.3.9-1ubuntu2.3

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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# 1.411 ncurses 5.9+20140118-1ubuntu1

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-- vile: txtmode file-encoding=utf-8

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Files: install-sh

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-- vile:txtmode fc=72  
-- \$Id: COPYING,v 1.2 2014/01/18 23:59:29 tom Exp \$

# 1.412 libx11 1.6.2-1ubuntu2.1

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<H2>$BCx:n8"! "%i%$%;%s%9(B</H2>
<!-- w3m BN(Cx:n8"! "%i%$%;%s%9$K$D$$$F$N@bL@(B -->
<DIV>
B3$N%Z!<%8$N@hF,KLak(B
</DIV>
<HR>
```



```

<H2>$B<U<-(B</H2>
<!-- $B<U<-(B -->
<DIV>
B3$N%Z!<%8$N@hF,KLak(B
</DIV>
<HR>

$B%H%C%W%Z%%8$KLa$k(B

</BODY>
</HTML>

```

# 1.424 libpod-latex-perl 0.61-1

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<http://schemas.xmlsoap.org/ws/2005/02/rm/wsrn.xsd>; %20<http://schemas.xmlsoap.org/ws/2005/02/rm/wsrn-policy.xsd>

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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## 1.439 gobject-introspection 1.40.0 1ubuntu0.2

### 1.439.1 Available under license :

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Source: <http://ftp.gnome.org/pub/GNOME/sources/gobject-introspection/>

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Version 3, 29 June 2007

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\*uganda.txt\* For Vim version 7.4. Last change: 2013 Jul 06

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Kibaale Children's Centre \*kcc\* \*Kibaale\* \*charity\*



Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

\*donate\*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps.



When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:

Kibaale Children's Centre  
p.o. box 1658  
Masaka, Uganda, East Africa

Sending money: \*iccf-donations\*

Check the ICCF web site for the latest information! See [\[iccf\]](#) for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated



because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy

10238-168 Street

Surrey, B.C. V4N 1Z4

Canada

Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.

This will allow for tax deduction if you live in Holland.

Postbank, nr. 4548774

IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.

Check the ICCF web site for the latest information:

<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

[Bram@iccf-holland.org](mailto:Bram@iccf-holland.org)

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse







syn keyword psfBoolean false true contained

"Some of the attributes covered by attUnquotString and attQuotString:

" architecture category\_tag control\_directory copyright

" create\_date description directory file\_permissions install\_source

" install\_type location machine\_type mod\_date number os\_name os\_release

" os\_version pose\_as\_os\_name pose\_as\_os\_release readme revision

" share\_link title vendor\_tag

syn region psfAttUnquotString matchgroup=psfAttrib start=~^\s\*[\^# ]\+\s\+[\^#" ]~rs=e-1

contains=psfUnquotString,psfComment end=~\$~ keepend oneline

syn region psfAttQuotString matchgroup=psfAttrib start=~^\s\*[\^# ]\+\s\+"~rs=e-1

contains=psfQuotString,psfComment skip=~\\\"~ matchgroup=psfQuotString end=~\"~ keepend

" These regions are defined in attempt to do syntax checking for some

" of the attributes.

syn region psfAttTag matchgroup=psfAttrib start="^\s\*tag\s\+" contains=psfObjTag,psfComment end="\$" keepend oneline

syn region psfAttSpec matchgroup=psfAttrib

start="^\s\*\((ancestor\|applied\_patches\|applied\_to\|contents\|corequisites\|exerequisites\|prerequisites\|software\_spec\|supersedes\|superseded\_by\)\)\s\+" contains=psfObjTag,psfAttAbbrev,psfComment end="\$" keepend

syn region psfAttTags matchgroup=psfAttrib start="^\s\*all\_filesets\s\+" contains=psfObjTags,psfComment end="\$" keepend

syn region psfAttNumber matchgroup=psfAttrib

start="^\s\*\((compressed\_size\|instance\_id\|media\_sequence\_number\|sequence\_number\|size\)\)\s\+"

contains=psfNumber,psfComment end="\$" keepend oneline

syn region psfAttTime matchgroup=psfAttrib start="^\s\*\((create\_time\|ctime\|mod\_time\|mtime\|timestamp\)\)\s\+"

contains=psfNumber,psfComment end="\$" keepend oneline

syn region psfAttFloat matchgroup=psfAttrib start="^\s\*\((data\_model\_revision\|layout\_version\)\)\s\+"

contains=psfFloat,psfComment end="\$" keepend oneline

syn region psfAttLongDate matchgroup=psfAttrib start="^\s\*install\_date\s\+" contains=psfLongDate,psfComment end="\$" keepend oneline

syn region psfAttState matchgroup=psfAttrib start="^\s\*\((state\)\)\s\+" contains=psfState,psfComment end="\$"

keepend oneline

syn region psfAttPState matchgroup=psfAttrib start="^\s\*\((patch\_state\)\)\s\+" contains=psfPState,psfComment

end="\$" keepend oneline



```

syn region psfAttBoolean matchgroup=psfAttrib
start="^\s*(is_kernel\|is_locatable\|is_patch\|is_protected\|is_reboot\|is_reference\|is_secure\|is_sparse\)\s\+"
contains=psfBoolean,psfComment end="$" keepend oneline

syn match psfComment "#.*$"

```

```

" Define the default highlighting.
" For version 5.7 and earlier: only when not done already
" For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
if version < 508
let did_psf_syntax_inits = 1
command -nargs=+ HiLink hi link <args>
else
command -nargs=+ HiLink hi def link <args>
endif

```

```

HiLink psfObject Statement
HiLink psfAttrib Type
HiLink psfQuotString String
HiLink psfObjTag Identifier
HiLink psfAttAbbrev PreProc
HiLink psfObjTags Identifier

```

```

HiLink psfComment Comment

```

```

delcommand HiLink
endif

```

```

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

```

```

let b:current_syntax = "psf"

```

```

/*

```

```

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```

```

*

```

```

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                  2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE  
Voice phone:    (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

# 1.441 zlib 1.2.8

## 1.441.1 Available under license :

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

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Jean-loup Gailly    Mark Adler  
jloup@gzip.org    madler@alumni.caltech.edu



\*/

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## 1.442 base-passwd 3.5.33

### 1.442.1 Available under license :

Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/\*

Copyright: Copyright 1999-2002 Wichert Akkerman <wichert@deephackmode.org>

Copyright 2002, 2003, 2004 Colin Watson <cjwatson@debian.org>

License: GPL-2

Files: passwd.master, group.master

License: PD

X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and Bruce Perens <bruce@pixar.com>.

Files: doc/\*

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```

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```
Gnomovision version 69, Copyright (C) year name of author
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```



<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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.. \_history-and-license:

\*\*\*\*\*

History and License



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## 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.

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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	no
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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#### Mersenne Twister

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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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Floating point exception control

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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

<http://www.ietf.org/rfc/rfc1321.txt>

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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Execution tracing

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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

#### XML Remote Procedure Calls

-----

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test\_epoll

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Select kqueue

-----

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strtod and dtoa

-----

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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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<P>Version 2, June 1991

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<OL START="0">

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<OL START="11">

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<PRE>

<VAR>one line to give the program's name and an idea of what it does.</VAR>

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</PRE>

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<PRE>

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details

type `show w'. This is free software, and you are welcome

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for details.

</PRE>

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<PRE>

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interest in the program `Gnomovision'  
(which makes passes at compilers) written  
by James Hacker.

<VAR>signature of Ty Coon</VAR>, 1 April 1989

Ty Coon, President of Vice

</PRE>

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<P>Version 2, June 1991

<PRE>

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<P>

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</OL>

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# 1.446 cyrus-sasl 2.1.25.dfsg1-17build1

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 * Rob Earhart
 * Rob Siemborski
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 * Rob Siemborski
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# 1.447 cdebconf 0.187

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Other contributors include:

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Debianized by Adeodato Sim <dato@net.com.org.es> 2007-11-10

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## 1.458 libtext-soundex-perl 3.4-1build1

## 1.459 cryptsetup 1.6.1-1ubuntu1

### 1.459.1 Available under license :

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 * This file is part of the lwIP TCP/IP stack.
 *
 * Author: Adam Dunkels <adam@sics.se>
 */
```

## 1.463 libesmtp 1.0.6-1ubuntu2



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```
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```

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