List of open source components used by Intel® Deployment Assistant

S. No	Component	Link for additional info
1	ALFS 6.1 (Gerard Beekmans)	http://www.linuxfromscratch.org/
2	autoconf-2.59.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
3	automake-1.9.6.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
4	bash-3.1.tar.gz	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
5	bash-3.1-fixes-8.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
6	binutils-2.16.1.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
7	bison-2.2.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
8	bzip2-1.0.3.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
9	coreutils-6.3.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
10	coreutils-6.3-i18n-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
11	coreutils-6.3-suppress_uptime_kill_su-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
12	coreutils-6.3-uname-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
13	dejagnu-1.4.4.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
14	diffutils-2.8.1.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
15	diffutils-2.8.1-i18n-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
16	e2fsprogs-1.39.tar.gz	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
17	expect-5.43.0.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
18	expect-5.43.0-spawn-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
19	file-4.17.tar.gz	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
20	findutils-4.2.27.tar.gz	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/

21	flex-2.5.33.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
22	gawk-3.1.5.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
23	gawk-3.1.5-segfault_fix-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
24	gcc-4.1.1.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
25	gcc-4.1.1-specs-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
26	gettext-0.14.5.tar.gz	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
27	glibc-2.5.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
28	glibc-2.5-inotify-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
29	glibc-libidn-2.5.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
30	glibc-linuxthreads-2.5.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
31	grep-2.5.1a.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
32	grep-2.5.1a-redhat_fixes-2.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
33	groff-1.19.1.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
34	grub-0.97.tar.gz	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
35	grub-0.97-disk_geometry-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
36	gzip-1.3.5.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
37	gzip-1.3.5-security_fixes-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
38	iana-etc-2.10.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
39	inetutils-1.4.2.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
40	inetutils-1.4.2-no_server_man_pages-	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
41	inetutils-1.4.2-kernel_headers-1.pat	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
42	inetutils-1.4.2-gcc4_fixes-3.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
43	iproute2-2.6.16-060323.tar.gz	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
44	iproute2-2.6.11_050330-remove_db-1.p	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/

45	kbd-1.12.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
46	kbd-1.12-gcc4_fixes-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
47	kbd-1.12-backspace-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
48	less-382.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
49	lfs-bootscripts-6.2.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
50	lfs-bootscripts-3.2.1.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
51	libtool-1.5.22.tar.gz	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
52	libtool-1.5.14.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
53	linux-2.6.18.8.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
54	linux-libc-headers-2.6.12.0.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
55	linux-libc-headers-2.6.12.0-inotify-3.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
56	m4-1.4.4.tar.gz	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
57	make-3.80.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
58	man-1.5p.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
59	mktemp-1.5.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
60	mktemp-1.5-add_tempfile-2.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
61	module-init-tools-3.2.2.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
62	module-init-tools-3.2.2-modprobe-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
63	ncurses-5.5.tar.gz	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
64	ncurses-5.5-fixes-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
65	net-tools-1.60.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
66	net-tools-1.60-gcc34-3.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
67	net-tools-1.60-kernel_headers-2.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
68	net-tools-1.60-mii_ioctl-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/

69		
	patch-2.5.4.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
70		
	perl-5.8.8.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
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	perl-5.8.8-libc-2.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
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	procinfo-18.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
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	procps-3.2.6.tar.gz	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
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	psmisc-21.6.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
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	readline-5.0.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
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	readline-5.0-fixes-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
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	shadow-4.0.9.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
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	sysklogd-1.4.1-fixes-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
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	sysklogd-1.4.1.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
81		
	sysvinit-2.86.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
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	tar-1.15.1.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
83		
	tar-1.15.1-sparse_fix-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
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	tar-1.15.1-security_fixes-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
85		
	tar-1.15.1-gcc4_fix_tests-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
86		
	tcl8.4.13-src.tar.gz	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
87		
	texinfo-4.8.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
88		
	texinfo-4.8-multibyte-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
89		
	texinfo-4.8-tempfile_fix-2.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
90		
	udev-096.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
91		
	udev-config-3.rules	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
92		
	udev-config-6.2.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/

93	util-linux-2.12r.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
94	util-linux-2.12r-cramfs-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
95	vim-6.3.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
96	vim-6.3-lang.tar.bz2	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
97	vim-6.3-security_fix-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
98	zlib-1.2.3.tar.gz	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
99	zlib-1.2.2-security_fix-1.patch	ftp://anduin.linuxfromscratch.org/LFS/lfs-packages/6.2/
100	as86-0.16.17.tar.gz	http://homepage.ntlworld.com/robert.debath/dev86/
101	atk-1.6.1.tar.bz2	http://ftp.gnome.org/pub/GNOME/sources/atk/1.6/atk-1.6.1.tar.bz2
102	bin86-0.16.17.tar.gz	http://homepage.ntlworld.com/robert.debath/dev86/
103	bootsplash-3.2.tar.bz2	http://www.bootsplash.de/files/splashutils/
104	bootsplash-3.1.6-2.6.18.diff	http://www.bootsplash.de/files/
105	cdrtools.tar.gz	http://freshmeat.net/projects/cdrecord/
106	chkconfig-1.2.24h.tar.gz	http://freshmeat.net/projects/chkconfig/
107	CPIO Linux package	http://www.gnu.org/software/cpio/
108	dhcpcd-1.3.22-pl4.tar.gz	http://www.phystech.com/ftp/dhcpcd-1.3.22-pl4.tar.gz
109	dialog.tar.gz	http://freshmeat.net/projects/cdialog
110	dmidecode-2.8.tar.gz	http://www.nongnu.org/dmidecode/
111	dosfstools-2.11.src.tar.gz	ftp://ftp.uni-erlangen.de/pub/Linux/LOCAL/dosfstools
112	eject-2.1.0.tar.gz	http://eject.sourceforge.net/
113	expat-1.95.7.tar.gz	http://prdownloads.sourceforge.net/expat/expat-1.95.7.tar.gz
114	firefox-1.5.0.4-source.tar.bz2	http://www.mozilla.org/download-mozilla.html
115	fontconfig-2.2.2.tar.bz2	http://freedesktop.org/~fontconfig/release/fontconfig-2.2.2.tar.gz
116	freetype-2.1.7.tar.bz2	http://prdownloads.sourceforge.net/freetype/
117	freetype-2.1.7-bytecode-interpreter.patch	http://www.linuxfromscratch.org/patches/blfs/5.1/freetype-2.1.7-bytecode-interpreter.patch
118	FUSE	http://jaist.dl.sourceforge.net/sourceforge/fuse/fuse-2.6.5.tar.gz
119	fvwm-2.4.19.tar.gz	http://www.fvwm.org/download/

120	gcc-3.3.3-no_fixincludes-1.patch	http://freshmeat.net/projects/gcc/
121	gcc-3.3.3-specs-1.patch	http://freshmeat.net/projects/gcc/
123	gcc-core-3.3.3.tar.bz2	http://freshmeat.net/projects/gcc/
124	gcc-g++-3.3.3.tar.bz2	http://freshmeat.net/projects/gcc/
125	glib-2.4.1.tar.bz2	http://gd.tuwien.ac.at/graphics/gimp/gtk/v2.4/glib-2.4.1.tar.bz2
126	gtk+-2.4.1.tar.bz2	http://gd.tuwien.ac.at/graphics/gimp/gtk/v2.4/gtk+-2.4.1.tar.bz2
127	httpd-2.0.53.tar.gz	http://httpd.apache.org/download.cgi
128	jpegsrc.v6b.tar.gz	http://www.ijg.org/files/jpegsrc.v6b.tar.gz
129	lcms-1.12.tar.gz	http://www.littlecms.com/lcms-1.12.tar.gz
130	libIDL-0.8.3.tar.bz2	http://ftp.gnome.org/pub/GNOME/sources/libIDL/0.8/libIDL-0.8.3.tar.bz2
131	libmng-1.0.7.tar.gz	http://prdownloads.sourceforge.net/libmng/libmng-1.0.7.tar.gz
132	libpng-1.2.5.tar.bz2	http://libpng.sourceforge.net/
133	libpng-1.2.5-link-to-proper-libs.patch	http://www.linuxfromscratch.org/patches/blfs/5.1/
134	libusb-0.1.10a.tar.gz	http://libusb.sourceforge.net/
135	libxml2-2.6.19.tar.gz	http://xmlsoft.org/
136	libzip-0.7.1.tar.gz	http://freshmeat.net/projects/libzip/
137	lilo-22.7.src.tar.gz	http://www.icewalkers.com/Linux/Software/59430/lilo.html
138	ms-sys-2.0.0.tgz	http://ms-sys.sourceforge.net/
139	NTFS 3G	http://www.ntfs-3g.org/
140	NTFS progs	http://sourceforge.net/projects/linux-ntfs/
141	pango-1.4.0.tar.gz	ftp://ftp.gtk.org/pub/gtk/v2.2/
142	parted-1.7.0.tar.gz	http://ftp.gnu.org/gnu/parted/
143	pciutils-2.2.4.tar.gz	http://www.kernel.org/pub/software/utils/pciutils/
144	pcre-5.0.tar.gz	ftp://ftp.csx.cam.ac.uk/pub/software/programming/pcre/
145	php-5.2.2.tar.bz2	http://www.php.net/downloads.php
146	pkgconfig-0.15.0.tar.gz	http://www.freedesktop.org/software/pkgconfig/releases/pkgconfig-0.15.0.tar.gz
147	portmap_5beta.tar.gz	ftp://ftp.porcupine.org/pub/security/portmap_5beta.tar.gz
148	portmap compilation fix patch	http://www.linuxfromscratch.org/patches/blfs/svn/portmap-5beta-compilation_fixes-3.patch
149	portmap glibc patch	http://www.linuxfromscratch.org/patches/blfs/svn/portmap-5beta-glibc_errno_fix-1.patch

150	samba-3.0.23d.tar.gz	http://us1.samba.org/samba/ftp/
151	tcp_wrappers_7.6.tar.gz	ftp://ftp.porcupine.org/pub/security/tcp_wrappers_7.6.tar.gz
152	tcpwrappers shared lib patch	http://www.linuxfromscratch.org/patches/blfs/svn/tcp_wrappers-7.6-shared_lib_plus_plus-1.patch
153	tiff-v3.6.1.tar.gz	http://dl.maptools.org/dl/libtiff/
154	unionfs-1.4.tar.gz	ftp://ftp.fsl.cs.sunysb.edu/pub/unionfs/
155	unzip-5.52.tar.gz	http://mesh.dl.sourceforge.net/sourceforge/infozip/unzip552.tar.gz
156	w3c-libwww-5.4.0.tgz	http://www.w3.org/Library/Distribution.html#Tar
157	which-2.16.tar.gz	http://www.xs4all.nl/~carlo17/which/which-2.16.tar.gz
158	X11R6.9.0-src.tar.bz2	http://x.org
159	Xalan-C_1_10_0-src.tar.gz	http://xml.apache.org/xalan-c/download.html
160	xerces-c-src_2_7_0.tar.gz	http://xml.apache.org/xerces-c/download.cgi
161	xinetd-2.3.14.tar.gz	http://www.xinetd.org/xinetd-2.3.13.tar.gz
162	zip-2.3.tar.gz	http://www.mirror.ac.uk/sites/ftp.info-zip.org/pub/infozip/src/zip23.tar.gz
163	zisofs-tools-1.0.6.tar.gz	http://www.kernel.org/pub/linux/utils/fs/zisofs/
164	JavaScript Date Picker	http://www.avdf.com/oct98/art_ot005.html
165	isolinux.tar.gz	http://syslinux.zytor.com/iso.php
166	pci.ids	http://pciids.sourceforge.net/
167	Intel_ICH9_RHEL5.patch	intel.com
168	Intel_ICH10_2.6.18.8.patch	intel.com
179	bsdiff-4.3.tar.gz	http://www.daemonology.net/bsdiff/
170	TreePP.pm	http://search.cpan.org/~kawasaki/XML-TreePP-0.33/lib/XML/TreePP.pm
172	i386_apicid_xapic-2.6.18.8.patch	http://lkml.org/lkml/2007/8/28/367
172	Log4cpp	http://log4cpp.sourceforge.net/

Detailed License Texts

Contents

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Version 1.1

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<ORGANIZATION> = University of California, Berkeley
<YEAR> = 1998

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```
\"-
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.\" POSSIBILITY OF SUCH DAMAGE.
.\"
.\" $FreeBSD: src/usr.bin/bsdiff/bsdiff/bsdiff.1,v 1.1 2005/08/06 01:59:05
cperciva Exp
```

5. bzip2 License

This program, "bzip2", the associated library "libbzip2", and all
documentation, are copyright (C) 1996-2005 Julian R Seward. All
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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.3 of 15 February 2005

6. Tigra Calendar License

Dear William,

The page is:
http://www.softcomplex.com/products/tigra_calendar/docs/#terms_cond
The exact text is:

There is no license fee or royalty fee to be paid at any time for using the
Tigra Calendar
You may include the source code or modified source code within your own
projects for either personal or commercial use but excluding the restrictions
outlined below. The following restrictions apply to all parts of the
component, including all source code, samples and documentation.

- The above items CAN NOT be sold as are, either individually or together.
- The above items CAN NOT be modified and then sold as a library component,
either individually or together.

[end of quote]
So basically you can use original or modified version of the script at
no charge.

Monday, February 13, 2006, 8:51:19 AM, you wrote:

JWE> Hi Denis,

JWE> Thanks for your reply.

JWE> When you state that the license is at the end of the documentation page,
JWE> can you send me that information? I am not sure what page you are
JWE> referring to.

JWE> If we were to include this script into our application, what are the
JWE> requirements? Is it required that we give attribution in the banner?
JWE> Other?
JWE> Also, if we change this script, what are the requirements, if any?

JWE> Thanks
JWE> Bill

JWE> -----Original Message-----
JWE> From: Denis Grisak
JWE> Sent: Sunday, February 12, 2006 4:58 PM
JWE> To: Jacobs, William E
JWE> Subject: Re: License question

JWE> Dear William,

JWE> Thank You for your interest to products of SoftComplex!
JWE> The license information is at the end of the documentation page.

JWE> Basically the script is free for any kind of applications. If you
JWE> can't use free product we can come up with some "special" version.

JWE> Don't hesitate to contact us again if you have any further questions.

JWE> Sunday, February 12, 2006, 5:35:35 PM, you wrote:

JWE>> I'd like to know how to license Tigra Calendar code.
JWE>> I could not locate this info on your web site.
JWE>> Please provide a pointer to the right page or provide the
JWE>> licensing info in-line in response to this email.

JWE> --
JWE> Denis Grisak
JWE> SoftComplex Inc.

JWE> web: www.softcomplex.com
JWE> phone: 970.242.0749
JWE> fax: 800.848.9093

--
Denis Grisak
SoftComplex Inc.

web: www.softcomplex.com
phone: 970.242.0749
fax: 800.848.9093

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8. Expect License

NOTE: ALPHA AND BETA RELEASES OF TCL/TK ARE NOT SUPPORTED!

```
--------------------
Introduction
--------------------
```

This is the README file for Expect, a program that performs programmed
dialogue with other interactive programs. It is briefly described by
its man page, expect(1). This directory contains the source and man
page for Expect.

This README file covers Expect 5.38 and up. These versions of Expect
work with Tcl 8.2 and up and Tk 8.2 and up. Significant changes and
other news can be found in the NEWS file.

The Expect home page is: http://expect.nist.gov
The Expect FAQ is: http://expect.nist.gov/FAQ.html

```
--------------------
Getting Started - The Preferable Way
--------------------
```

A book on Expect is available from O'Reilly with the title "Exploring
Expect: A Tcl-Based Toolkit for Automating Interactive Applications",
ISBN 1-56592-090-2.

The book is filled with detailed examples and explanations, and is a
comprehensive tutorial to Expect. The book also includes a tutorial
on Tcl written specifically for Expect users (so you don't have to
read the Expect papers or the man pages). Exploring Expect is 602
pages.

```
--------------------
Getting Started - The Hacker Way
--------------------
```

While the book is the best way to learn about Expect, it is not
absolutely necessary. There are man pages after all and there are
numerous articles and papers on Expect. All of my own papers are in
the public domain and can be received free. If you are a hacker on a
tight budget, this may appeal to you. Nonetheless, I think you will
find the book pays for itself very quickly. It is much more readable
than the man pages, it includes well-written and explained examples,
and it describes everything in the papers as a coherent whole. The
concepts in the papers actually only make up a small fraction of the
book.

The 1990 USENIX paper (see "Readings" below) is probably the best one
for understanding Expect conceptually. The 1991 Computing Systems and

the LISA IV papers provide a nice mix of examples. The only downside
is, the examples in these papers don't actually work anymore - some
aspects (e.g., syntax) of both Expect and Tcl have changed. The
papers still make interesting reading - just don't study the examples
too closely! Fortunately, most of the examples from the papers also
accompany this distribution - and all of these are up to date.

For all the details, read the man page. It is long but you can get
started just by skimming the sections on the following commands:

        spawn   (starts a process)
        send   (sends to a process)
        expect   (waits for output from a process)
        interact   (lets you interact with a process)

To print out the Expect man page, invoke your local troff using the
-man macros, such as either of:

            ptroff -man expect.man
            ditroff -man expect.man

If Expect is installed, you can read the man pages using the "usual"
man commands, such as "man expect". If not installed, view the man
page on your screen by saying something like:

            nroff -man expect.man | more

Expect uses Tcl as the underlying language for expressing things such
as procedures, loops, file I/O, and arithmetic expressions. For many
simple scripts, it is not necessary to learn about Tcl. Just by
studying the examples, you will learn enough Tcl to get by. But if
you would like to learn more about Tcl or use it in your own
applications, read the Tcl README file which provides pointers to the
extensive Tcl documentation. Or read Exploring Expect. Chapter 2 of
Exploring Expect is a Tcl tutorial specifically designed for Expect
users.

An interactive debugger is bundled with Expect. The debugger has its
own documentation that comes separately. It is listed in the Readings
below. Again, it is slightly out of date. An up-to-date description
of the debugger appears in Chapter 18 of Exploring Expect. This
chapter also contains additional advice and tips for debugging.

You may get the feeling that the Expect documentation is somewhat
scattered and disorganized. This was true prior to publication of
Exploring Expect. The book contains everything you need to know, all
up-to-date, and with examples of every concept. (The book contains no
references to any of the Expect papers because none are necessary.)

Examples

This distribution contains many example scripts. (All of the
substantive examples in the book are included.) They can be found in
the example directory of this distribution. The README file in that
directory briefly describes all of the example scripts. Many of the

more sophisticated examples have man pages of their own.

Other interesting scripts are available separately in the directory
http://expect.nist.gov/scripts/ (ftpable as
ftp://ftp.nist.gov/mel/div826/subject/expect/scripts). (See below for
how to retrieve these.) You are welcome to send me scripts to add to
this directory. A number of Expect scripts are also available in the
Tcl archive, available at ftp://ftp.neosoft.com/pub/tcl.

Readings on Expect

The implementation, philosophy, and design are discussed in "expect:
Curing Those Uncontrollable Fits of Interaction", Proceedings of the
Summer 1990 USENIX Conference, Anaheim, CA, June 11-15, 1990.

Examples and discussion, specifically aimed at system administrators,
are in "Using expect to Automate System Administration Tasks",
Proceedings of the 1990 USENIX Large Systems Administration Conference
(LISA) IV, Colorado Springs, CO, October 17-19, 1990.

A comprehensive paper of example scripts is "expect: Scripts for
Controlling Interactive Programs", Computing Systems, Vol. 4, No. 2,
University of California Press Journals, 1991.

Regression and conformance testing is discussed in "Regression Testing
and Conformance Testing Interactive Programs", Proceedings of the
Summer 1992 USENIX Conference, San Antonio, TX, June 8-12, 1992.

An explanation of some of the more interesting source code to an early
version of Expect is in Chapter 36 ("Expect") of "Obfuscated C and
Other Mysteries", John Wiley & Sons, ISBN 0-471-57805-3, January 1993.

A paper on connecting multiple interactive programs together using
Expect is "Kibitz - Connecting Multiple Interactive Programs
Together", Software - Practice & Experience, Vol. 23, No. 5, May 1993.

The debugger is discussed in "A Debugger for Tcl Applications",
Proceedings of the 1993 Tcl/Tk Workshop, Berkeley, CA, June 10-11,
1993.

Using Expect with Tk is described in the paper "X Wrappers for
Non-Graphic Interactive Programs", Proceedings of Xhibition '94, San
Jose, CA, June 20-24, 1994.

Simple techniques to allow secure handling of passwords in background
processes are covered in "Handling Passwords with Security and
Reliability in Background Processes", Proceedings of the 1994 USENIX
LISA VIII Conference, San Diego, CA, September 19-23, 1994.

More publications can be found in the Expect home page (see elsewhere).

How to Get the Latest Version of Expect or the Readings

Expect may be ftp'd as mel/div826/subject/expect/expect.tar.gz from
expect.nist.gov. (Yes, the URL is much shorter:
http://expect.nist.gov/expect.tar.Z) Request email delivery by mailing
to "library@cme.nist.gov". The contents of the message should be (no
subject line) "send pub/expect/expect.tar.Z".

Once you have retrieved the system, read the INSTALL file. The papers
mentioned above can be retrieved separately (from the same directories
listed above) as:

```
 doc/seminal.ps.Z          (USENIX '90 - Intro and Implementation)
 doc/sysadm.ps.Z             (LISA '90 - System Administration)
 doc/scripts.ps.Z  (Comp. Systems '91 - Overview of Scripts)
 doc/regress.ps.Z          (USENIX '92 - Testing)
 doc/kibitz.ps.Z              (SP&E '93 - Automating Multiple
                               Interactive Programs Simultaneously)
 doc/tcl-debug.ps.Z          (Tcl/Tk '93 - Tcl/Tk Debugger)
 doc/expectk.ps.Z        (Xhibition '94 - Using Expect with Tk)
 doc/bgpasswd.ps.Z            (LISA '94 - Passwds in Background Procs)
 doc/chargraph.ps.Z          (SP&E '96 - Testing and Automation
                               of Character Graphic Applications)
```

The book "Exploring Expect" is described in more detail earlier in
this file.

The book "Obfuscated C and Other Mysteries" is not on-line but is
available in bookstores or directly from the publisher (Wiley).

Overhead transparencies I've used at conferences are also available in
the same way as the papers themselves. The transparencies are sketchy
and not meant for personal education - however if you are familiar
with Expect and just want to give a short talk on it to your
colleagues, you may find the transparencies useful. They vary in
length from 15 to 20 minutes in length. These are:

```
  doc/seminal-talk.ps.Z    (USENIX '90 - Intro and Implementation)
  doc/sysadm-talk.ps.Z       (LISA '90 - System Administration)
  doc/regress-talk.ps.Z    (USENIX '92 - Testing)
  doc/tcl-debug-talk.ps.Z  (Tcl/Tk '93 - Tcl/Tk Debugger)
  doc/expectk-talk.ps.Z (Xhibition '94 - Expect + Tk = Expectk)
  doc/bgpasswd-talk.ps.Z     (LISA '94 - Passwords in the Background)
```

All of the documents are compressed PostScript files and should be
uncompressed and sent to a PostScript printer. The documents are
intended for printing at 8.5"x11" and may fail on some ISO A4
printers. According to Hans Mayer <Hans.Mayer@gmd.de>, you can make
them A4-able by searching for "FMVERSION" and changing the next line
from:

```
     1 1 0 0 612 792 0 1 13 FMDOCUMENT
```
to:
```
     1 1 0 0 594 841 0 1 13 FMDOCUMENT
```

Using Expect with and without Tcl and/or Tk.

The usual way of using Expect is as a standalone program with Tcl as
the control language. Since you may already have Tcl, it is available
separately. Tcl may be retrieved as tcl.tar.Z in the same way as
described above for Expect. When new releases of Tcl appear, I will
try to check them out for Expect as soon as possible. If you would
like to get the newest Tcl release without waiting, ftp it from
ftp.scriptics.com (directory pub/tcl).

Expect may also be built using the Tk library, a Tcl interface to the
X Window System. Tk is available in the same way as Tcl.

It is possible to embed the Expect/Tcl core and optionally Tk in your
own C programs. This is described in libexpect(3).

Expect can also be used from a C or C++ program without Tcl. This is
described in libexpect(3). While I consider this library to be easy
to use, the standalone Expect program is much, much easier to use than
working with the C compiler and its usual edit, compile, debug cycle.
Unlike typical programming, most of the debugging isn't getting the C
compiler to accept your programs - rather, it is getting the dialogue
correct. Also, translating scripts from Expect to C is usually not
necessary. For example, the speed of interactive dialogues is
virtually never an issue. So please try 'expect' first. It is a more
appropriate tool than the library for most people.

Systems Supported

I do not know of any UNIX systems on which Expect will not run.
Systems which do not support select or poll can use Expect, but
without the ability to run multiple processes simultaneously. I am
willing to work with you to complete a port.

Before sending me changes, please download or verify that you have the
latest version of Expect (see above). Then send me a "diff -c" along
with a suitable English explanation. If your diff involves something
specific to a machine, give me diffs for configure.in as well or give
me a hint about when the diffs should be done so I can write the
configure support myself. Also please include the version of the OS
and whether it is beta, current, recent, or totally out-of-date and
unsupported.

Installing Expect

Expect comes with a configure script that provides for an automated
installation. I believe you will find that Expect is very easy to
install. (Tcl and Tk, too.)

For more information, read the INSTALL file.

Support from Don Libes or NIST

Although I can't promise anything in the way of support, I'd be
interested to hear about your experiences using it (good or bad). I'm
also interested in hearing bug reports and suggestions for improvement
even though I can't promise to implement them.

If you send me a bug, fix, or question, include the version of Expect
(as reported by expect -d), version of Tcl, and name and version of
the OS that you are using. Before sending mail, it may be helpful to
verify that your problem still exists in the latest version. You can
check on the current release and whether it addresses your problems by
retrieving the latest HISTORY file (see "History" above).

Awards, love letters, and bug reports may be sent to:

Don Libes
National Institute of Standards and Technology
Bldg 220, Rm A-127
Gaithersburg, MD 20899
(301) 975-3535
libes@nist.gov

I hereby place this software in the public domain. NIST and I would
appreciate credit if this program or parts of it are used.

Design and implementation of this program was funded primarily by
myself. Funding contributors include the NIST Automated Manufacturing
Research Facility (funded by the Navy Manufacturing Technology
Program), the NIST Scientific and Technical Research Services, the
ARPA Persistent Object Bases project and the Computer-aided
Acquisition and the Logistic Support (CALS) program of the Office of
the Secretary of Defense.

Especially signicant contributions were made by John Ousterhout, Henry
Spencer, and Rob Savoye. See the HISTORY file for others.

Commercial Support, Classes

Several companies provide commercial support for Expect. If your
company has a financial investment in Expect or you wish to be assured
of continuing support for Expect, you can buy a support contract this
way. These companies currently include:

Cygnus Support
1937 Landings Drive
Mountain View, CA 94043
+1 (415) 903-1400
info@cygnus.com
http://www.cygnus.com

Computerized Processes Unlimited (CPU)
4200 S. I-10 Service Rd., Suite 205
Metairie, LA 70006
+1 (504) 889-2784

```
info@cpu.com
http://www.cpu.com
http://www.cpu.com/cpu/expect.htm (Expect class page)
```

CPU provides Expect support and also Expect classes. Contact them for more information.

Neither NIST nor I have any financial relationship with these companies. Please contact me to be added to this list.

9. File License

```
$Id: file_license.txt,v 1.1.1.1 2008/12/26 04:36:30 common Exp $
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```
The Independent JPEG Group's JPEG software
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README for release 6b of 27-Mar-1998
=====================================

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our electronic mailing list.  Mailing list members are notified of updates
and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,
Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG
Group.

IJG is not affiliated with the official ISO JPEG standards committee.


DOCUMENTATION ROADMAP
=====================

This file contains the following sections:

OVERVIEW            General description of JPEG and the IJG software.
LEGAL ISSUES        Copyright, lack of warranty, terms of distribution.
REFERENCES          Where to learn more about JPEG.
ARCHIVE LOCATIONS   Where to find newer versions of this software.
RELATED SOFTWARE    Other stuff you should get.
FILE FORMAT WARS    Software *not* to get.
TO DO               Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
  install.doc       How to configure and install the IJG software.
  usage.doc         Usage instructions for cjpeg, djpeg, jpegtran,
                    rdjpgcom, and wrjpgcom.
  *.1               Unix-style man pages for programs (same info as
usage.doc).
  wizard.doc        Advanced usage instructions for JPEG wizards only.
  change.log        Version-to-version change highlights.
Programmer and internal documentation:
```

```
    libjpeg.doc         How to use the JPEG library in your own programs.
    example.c           Sample code for calling the JPEG library.
    structure.doc       Overview of the JPEG library's internal structure.
    filelist.doc        Road map of IJG files.
    coderules.doc       Coding style rules --- please read if you contribute
code.
```

Please read at least the files install.doc and usage.doc. Useful information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and
decompression. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images. JPEG is intended for
compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images
are not its strong suit. JPEG is lossy, meaning that the output image is not
exactly identical to the input image. Hence you must not use JPEG if you
have to have identical output bits. However, on typical photographic images,
very good compression levels can be obtained with no visible change, and
remarkably high compression levels are possible if you can tolerate a
low-quality image. For more details, see the references, or just experiment
with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of
these
processes, although some uncommon parameter settings aren't implemented yet.
For legal reasons, we are not distributing code for the arithmetic-coding
variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting
the hierarchical or lossless processes defined in the standard.

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

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application. We have also included
"jpegtran", a utility for lossless transcoding between different JPEG
processes, and "rdjpgcom" and "wrjpgcom", two simple applications for
inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and

flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the
REFERENCES section for introductory material.) Rather, it is intended to
be reliable, portable, industrial-strength code. We do not claim to have
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that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot
legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software.
(Since arithmetic coding provides only a marginal gain over the unpatented
Huffman mode, it is unlikely that very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

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REFERENCES
==========

We highly recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is

Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in that issue discuss MPEG motion picture compression,
applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PostScript file containing a revised version of Wallace's article is
available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file
(actually
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material. Note: the Wallace article is copyright ACM and
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and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found
in
"The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by
M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides
good explanations and example C code for a multitude of compression methods
including JPEG. It is an excellent source if you are comfortable reading C
code but don't know much about data compression in general. The book's JPEG
sample code is far from industrial-strength, but when you are ready to look
at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data
Compression Standard" by William B. Pennebaker and Joan L. Mitchell,
published
by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp.
The book includes the complete text of the ISO JPEG standards (DIS 10918-1
and draft DIS 10918-2). This is by far the most complete exposition of JPEG
in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a
paper copy through ISO or ITU. (Unless you feel a need to own a certified
official copy, we recommend buying the Pennebaker and Mitchell book instead;
it's much cheaper and includes a great deal of useful explanatory material.)
In the USA, copies of the standard may be ordered from ANSI Sales at (212)
642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI
doesn't take credit card orders, but Global does.) It's not cheap: as of
1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7%
shipping/handling. The standard is divided into two parts, Part 1 being the
actual specification, while Part 2 covers compliance testing methods. Part 1
is titled "Digital Compression and Coding of Continuous-tone Still Images,
Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS
10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of
Continuous-tone Still Images, Part 2: Compliance testing" and has document
numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3,
a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG
currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file
format. For the omitted details we follow the "JFIF" conventions, revision
1.02. A copy of the JFIF spec is available from:
    Literature Department
    C-Cube Microsystems, Inc.
    1778 McCarthy Blvd.

Milpitas, CA 95035
        phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or
from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note. libtiff is available
from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
=================

The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found
there in directory graphics/jpeg. This particular version will be archived
as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have
direct Internet access, UUNET's archives are also available via UUCP; contact
help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only
ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from
the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or
on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12
"JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net
release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites, including the official news.answers
archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-
faq/.
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
        send usenet/news.answers/jpeg-faq/part1
        send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
================

Numerous viewing and image manipulation programs now support JPEG. (Quite a

few of them use this library to do so.) The JPEG FAQ described above lists
some of the more popular free and shareware viewers, and tells where to
obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free
PBMPLUS software, which provides many useful operations on PPM-format image
files. In particular, it can convert PPM images to and from a wide range of
other formats, thus making cjpeg/djpeg considerably more useful. The latest
version is distributed by the NetPBM group, and is available from numerous
sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software
is;
you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford,
is available from ftp://havefun.stanford.edu/pub/jpeg/. This program
is designed for research and experimentation rather than production use;
it is slower, harder to use, and less portable than the IJG code, but it
is easier to read and modify. Also, the PVRG code supports lossless JPEG,
which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library.
The root of the problem is that the ISO JPEG committee failed to specify a
concrete file format. Some vendors "filled in the blanks" on their own,
creating proprietary formats that no one else could read. (For example, none
of the early commercial JPEG implementations for the Macintosh were able to
exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format
has been agreed to by a number of major commercial JPEG vendors, and it has
become the de facto standard. JFIF is a minimal or "low end" representation.
We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF
Technical Note #2) for "high end" applications that need to record a lot of
additional data about an image. TIFF/JPEG is fairly new and not yet widely
supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF.
SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should
be able to read the most common variant of SPIFF. SPIFF has some technical
advantages over JFIF, but its major claim to fame is simply that it is an
official standard rather than an informal one. At this point it is unclear
whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto
standard. IJG intends to support SPIFF once the standard is frozen, but we
have not decided whether it should become our default output format or not.
(In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist.
We have little or no sympathy for the existence of these formats. Indeed,
one of the original reasons for developing this free software was to help
force convergence on common, open format standards for JPEG files. Don't
use a proprietary file format!

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TO DO
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The major thrust for v7 will probably be improvement of visual quality.
The current method for scaling the quantization tables is known not to be
very good at low Q values.  We also intend to investigate block boundary
smoothing, "poor man's variable quantization", and other means of improving
quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG
Part 3 extensions --- principally, variable quantization and the SPIFF file
format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.
```

20. LCMS License

21.   LGPL v1.1

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Version 2.1, February 1999

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22.　　　LGPL v2.0

                          Preamble

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permission to copy, distribute and/or modify the library.

  Also, for each distributor's protection, we want to make certain
that everyone understands that there is no warranty for this free
library. If the library is modified by someone else and passed on, we
want its recipients to know that what they have is not the original

version, so that any problems introduced by others will not reflect on
the original authors' reputations.

  Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that companies distributing free
software will individually obtain patent licenses, thus in effect
transforming the program into proprietary software. To prevent this,
we have made it clear that any patent must be licensed for everyone's
free use or not licensed at all.

  Most GNU software, including some libraries, is covered by the ordinary
GNU General Public License, which was designed for utility programs. This
license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary
one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

  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.

  Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

  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.

  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, while the latter only
works together with the library.

  Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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addressed as "you".

   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.

   Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
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and you may at your option offer warranty protection in exchange for a
fee.

   2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    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
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sections when you distribute them as separate works. But when you
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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
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a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
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that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
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that version instead if you wish.) Do not make any other change in
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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 compile 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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this License. You must supply a copy of this License. If the work
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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) 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.

    c) 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.

    d) 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 source code 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
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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
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    facilities. This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
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    where to find the accompanying uncombined form of the same work.

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That's all there is to it!

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README.txt for version 6.3 of Vim: Vi IMproved.

WHAT IS VIM

Vim is an almost compatible version of the UNIX editor Vi. Many new features
have been added: multi-level undo, syntax highlighting, command line history,
on-line help, filename completion, block operations, etc. There is also a
Graphical User Interface (GUI) available. See "runtime/doc/vi_diff.txt" for
differences with Vi.

This editor is very useful for editing programs and other plain ASCII files.
All commands are given with normal keyboard characters, so those who can type
with ten fingers can work very fast. Additionally, function keys can be
defined by the user, and the mouse can be used.

Vim currently runs under Amiga DOS, MS-DOS, MS-Windows 95/98/Me/NT/2000/XP,
Atari MiNT, Macintosh, BeOS, VMS, RISC OS, OS/2 and almost all flavours of
UNIX. Porting to other systems should not be very difficult.

DISTRIBUTION

There are separate distributions for Unix, PC, Amiga and some other systems.
This README.txt file comes with the runtime archive. It includes the
documentation, syntax files and other files that are used at runtime. To run
Vim you must get either one of the binary archives or a source archive.
Which one you need depends on the system you want to run it on and whether
you
want or must compile it yourself. Check "http://www.vim.org/download.php"
for
an overview of currently available distributions.

DOCUMENTATION

The best is to use ":help" in Vim. If you don't have an executable yet, read
"runtime/doc/help.txt". It contains pointers to the other documentation
files. The User Manual reads like a book and is recommended to learn to use
Vim. See ":help user-manual".

The vim tutor is a one hour training course for beginners. Mostly it can be
started as "vimtutor". See ":help tutor" for more information.

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Vim is Charityware. You can use and copy it as much as you like, but you are
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The license is GPL compatible, you may compile Vim with GPL libraries and
distribute it.

COMPILING

If you obtained a binary distribution you don't need to compile Vim. If you
obtained a source distribution, all the stuff for compiling Vim is in the
"src" directory. See src/INSTALL for instructions.

INSTALLATION

See one of these files for system-specific instructions:
README_ami.txt   Amiga
README_unix.txt   Unix
README_dos.txt   MS-DOS and MS-Windows
README_os2.txt   OS/2
README_mac.txt   Macintosh
README_vms.txt   VMS

INFORMATION

The latest news about Vim can be found on the Vim home page:
        http://www.vim.org/

If you have problems, have a look at the Vim FAQ:
        http://vimdoc.sf.net/vimfaq.html

Send bug reports to:
        Bram Moolenaar <Bram@vim.org>

There are four mailing lists for Vim:
<vim@vim.org>
        For discussions about using existing versions of Vim: Useful mappings,
        questions, answers, where to get a specific version, etc.
        Archive: http://groups.yahoo.com/group/vim
<vim-dev@vim.org>
        For discussions about changing Vim: New features, porting, beta-test
        versions, etc.
        Archive: http://groups.yahoo.com/group/vimdev
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        Announcements about new versions of Vim; also beta-test versions and
        ports to different systems.
        Archive: http://groups.yahoo.com/group/vimannounce
<vim-multibyte@vim.org>
        For discussions about using and improving the multi-byte aspects of
        Vim: XIM, Hangul, fontset, etc.
        Archive: http://groups.yahoo.com/group/vim-multibyte

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See "http://www.vim.org/maillist.php"

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- You can only send messages to these lists if you have subscribed!
- You need to send the messages from the same location as where you
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- Maximum message size is 40000 characters.


If you want to join a maillist, send a message to
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Make sure that your "From:" address is correct.  Then the list server will
send you a help message.



MAIN AUTHOR

Send any other comments, patches, pizza and suggestions to:


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```

33. W3C License

34. X. Org License

Abstract

X11R6.9 and X11R7.0 are Open Source versions of the X Window System
that supports many UNIX(R) and UNIX-like operating systems (such as
Linux, FreeBSD, NetBSD, OpenBSD and Solaris x86) on Intel and other
platforms. This version is compatible with X11R6.8 and other X
window system implementations which support the X11R6 standard.

1. What are X11R6.9 and X11R7.0?

X11R6.9 is the ninth and final full release in the X11R6 series, and X11R7.0
is the first release in the new X11R7 series.

The 6.9 version is a new release that includes additional hardware support,
functional enhancements and bug fixes. The 7.0 version is built from the
same source code as the 6.9 so it contains the same additional hardware sup-
port, functional enhancements and bug fixes; however, it has been split into
logical modules that can be developed, built and maintained separately, but
still fit together coherently into the larger source code base as they have
in the 6.9 tree. Specific release enhancements can be viewed in the Release
Notes.

X11R6.9 and X11R7.0 are being released at the same time to assist in the
transition from the older monolithic source tree to the new modular source
tree. It will take time for everyone to make this transition, so we will
maintain the older X11R6 series through update releases to both X11R6.9 and
X11R6.8.

Most modern PC video hardware is supported in both releases, and most PC
video hardware that isn't supported explicitly can be used with the "vesa"
driver. The Release Notes has a table showing the drivers provided with
X11R6.9 and X11R7.0, and links to related documentation.

The X.Org Foundation X releases are produced by the X.Org Foundation. The
X.Org Foundation has been formed as a Delaware corporation organized to oper-
ate as a scientific charity under IRS code 501(c)(3) chartered to develop and
execute effective strategies which provide world-wide stewardship of the X
Window System technology and standards. Membership in the X.Org Foundation is
free to all participants. Applications for Membership are now being accepted,
and active participants in the further development of the X Window Technology
are invited to complete a membership application
<URL:http://www.x.org/XOrg_Foundation_Membership.html>. The X11R6.9 and
X11R7.0 codebase forms the fourth X Window System release since the formation

of the X.Org Foundation and includes code from the X Consortium, the Open
Group and the XFree86[tm] project. This release is dedicated to the greater
X community, developers and users alike.

2. Licensing

X Window System source code is covered by many licenses. All of these
licenses have in common the fact that they do not impose significant condi-
tions on the modification or redistribution or either source code or binaries
beyond requiring one or more of the following:

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  3. Attributions are included with documentation accompanying binaries.

Most of these licenses are based on the MIT, X Consortium, or BSD (original
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nition, and most are consistent with the Free Software Foundation's Free
Software Definition.

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licenses for binary distributions, can be found in the License Document. If
you find any omissions in that document, please contact us with details at
<xf_board@x.org>. While the current licenses are all open source licenses,
the X.Org Foundation is attempting, with time, to bring as much as possible
of the code's licenses in the distribution into compliance with the Debian
Free Software Guidelines.

3. Pointers to additional information

The documentation for this release can be found online at the X.Org web site
<URL:http://wiki.x.org/>. Information about binary distributions and the
attendant installation instructions can be found in the Installation Docu-
ment.

The X11 version numbering system (including historical information) can be
found in the Versions Document.

Additional information may be available at the X.Org Foundation Wiki
<URL:http://wiki.x.org/>.

4. The Public Mailing Lists

Current information about the X.Org Foundation public mailing lists is avail-
able on the X.Org mailing list page <URL:http://lists.x.org/mail-
man/listinfo/> and related desktop technology mailing lists can be found on
Freedesktop.org's mailing list page <URL:http://freedesktop.org/mail-
man/listinfo>.

5. Contributing to the X.Org Foundation's X efforts.

If you have any new work or enhancements/bug fixes for existing work, please
send them to <xorg@freedesktop.org> or to our bug tracking system

<URL:https://bugs.freedesktop.org/> using the xorg component. This will help
ensure that they are included in future releases.

6. How to get the release

Information about X11R6.9 and X11R7.0 can be found from the X.Org Foundation
wiki at <URL:http://wiki.x.org>, and at mirrors of this server. Information
about obtaining and installing binary distributions of this release can be
found in the Installation Document.

Note that both X11R6.9 and X11R7.0 are being released simultaneously but only
one source tree is required to build the release. Information about obtain-
ing the release in source form is given below.

6.1 X11R6.9

The source for version 6.9.0 is available as a single tarball:

     X11R6.9.0-src.tar.gz

and also is available split into seven separate tarballs:

     X11R6.9.0-src1.tar.gz
     X11R6.9.0-src2.tar.gz
     X11R6.9.0-src3.tar.gz
     X11R6.9.0-src4.tar.gz
     X11R6.9.0-src5.tar.gz
     X11R6.9.0-src6.tar.gz
     X11R6.9.0-src7.tar.gz

The first three of the separate tarballs contain everything except the fonts
and general X11 documentation. Those three are sufficient for building
X11R6.9 if you already have a set of fonts. The fourth and fifth contain the
fonts. The sixth contains the source for the general X11 documentation. The
seventh contains the general X11 documentation in hardcopy format.

6.2 X11R7.0

This is the first release of the new modular source code tree. The souce
code has been split into nine logical modules: app, data, doc, driver, font,
lib. proto, util and xserver. Each of these modules contain one or more
packages that can be configured, built and installed separately. Please see
an X11R7.0 release site for a complete list of the tarballs.

For information on how to build the modular tree packages see the Modular
Developer's Guide <URL:http://wiki.x.org/wiki/ModularDevelopersGuide>. This
guide also contains information for developers who want to help improve the
modular build system and modular code base.

6.3 The current development tree

The X source code for this and all releases/snapshots as well as development
versions can also be accessed via the Freedesktop.org CVS repository. It's
also possible to browse the freedesktop CVS repository
<URL:http://cvs.freedesktop.org/xorg/>. The CVS tag for the 6.9 version is
"XORG-6_9_0" and the CVS tag for the 7.0 version is "XORG-7_0_0". The CVS
tag for the stable branch for the %relvers; release is "XORG-6_9-branch".

To check out the latest development version, don't specify any tag.

7. Reporting Bugs

Bugs should be reported to bug tracking system <URL:https://bugs.freedesk-
top.org/> using the xorg component. Before reporting bugs, please check the
server log file, which can be found at /var/log/Xorg.0.log on most platforms.
If you can't resolve the problem yourself, send the entire log file with your
bug report but not the operating system core dump. Do not edit the log file
as our developers use it to reproduce and debug your problem. Please attach
it to your bug report.

    Generated from Id: README.sgml,v 1.6 alanc Exp $.

$XdotOrg: xc/README,v 1.4 2005/12/21 05:39:04 kem Exp $

35.   Xinetd License

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           (i.e <number>.<number>.<number>) will remain unchanged.
        b. A new component will be appended to the version number to indicate
           the modification level. The form of this component is up to the
           author of the modifications.

2. The author of the modifications will include his/her name by appending it
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Version: 2.1.8.9pre14a
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This is an exerpt from an email I recieved from the original author, allowing
xinetd as maintained by me, to use the higher version numbers:

I appreciate your maintaining the version string guidelines as specified
in the copyright. But I did not mean them to last as long as they did.

So, if you want, you may use any 2.N.* (N >= 3) version string for future
xinetd versions that you release. Note that I am excluding the 2.2.* line;
using that would only create confusion. Naming the next release 2.3.0

would put to rest the confusion about 2.2.1 and 2.1.8.*.

36.   Info-ZIP License

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The definitive version of this document should be available at
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       "WiZ," "Pocket UnZip," "Pocket Zip," and "MacZip" for its own source
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37.   zlib License

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.3 is a general purpose data compression library. All the code is
thread safe. The data format used by the zlib library is described by RFCs
(Request for Comments) 1950 to 1952 in the files
http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate
format)
and rfc1952.txt (gzip format). These documents are also available in other
formats from ftp://ftp.uu.net/graphics/png/documents/zlib/zdoc-index.html

All functions of the compression library are documented in the file zlib.h
(volunteer to write man pages welcome, contact zlib@gzip.org). A usage
example
of the library is given in the file example.c which also tests that the
library
is working correctly. Another example is given in the file minigzip.c. The
compression library itself is composed of all source files except example.c
and
minigzip.c.

To compile all files and run the test program, follow the instructions given
at
the top of Makefile. In short "make test; make install" should work for most
machines. For Unix: "./configure; make test; make install". For MSDOS, use
one
of the special makefiles such as Makefile.msc. For VMS, use make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant
<info@winimage.com> for the Windows DLL version. The zlib home page is
http://www.zlib.org or http://www.gzip.org/zlib/ Before reporting a problem,
please check this site to verify that you have the latest version of zlib;
otherwise get the latest version and check whether the problem still exists
or
not.

PLEASE read the zlib FAQ http://www.gzip.org/zlib/zlib_faq.html before asking
for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997
issue of Dr. Dobb's Journal; a copy of the article is available in
http://dogma.net/markn/articles/zlibtool/zlibtool.htm

The changes made in version 1.2.3 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory "contrib".

A Java implementation of zlib is available in the Java Development Kit
http://java.sun.com/j2se/1.4.2/docs/api/java/util/zip/package-summary.html
See the zlib home page http://www.zlib.org for details.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is in the
CPAN (Comprehensive Perl Archive Network) sites
http://www.cpan.org/modules/by-module/Compress/

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is
available in Python 1.5 and later versions, see
http://www.python.org/doc/lib/module-zlib.html

A zlib binding for TCL written by Andreas Kupries <a.kupries@westend.com> is
availlable at http://www.oche.de/~akupries/soft/trf/trf_zip.html

An experimental package to read and write files in .zip format, written on
top
of zlib by Gilles Vollant <info@winimage.com>, is available in the
contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With
  -O, one libpng test fails. The test works in 32 bit mode (with the -n32
  compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it
works
  when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is
  necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works
with
  other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS, BEOS and by some Mac compilers.

- For PalmOs, see http://palmzlib.sourceforge.net/

- When building a shared, i.e. dynamic library on Mac OS X, the library must
be
  installed before testing (do "make install" before "make test"), since the
  library location is specified in the library.

Acknowledgments:

  The deflate format used by zlib was defined by Phil Katz. The deflate
  and zlib specifications were written by L. Peter Deutsch. Thanks to all the
  people who reported problems and suggested various improvements in zlib;
  they are too numerous to cite here.

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

If you use the zlib library in a product, we would appreciate *not*
receiving lengthy legal documents to sign. The sources are provided
for free but without warranty of any kind. The library has been
entirely written by Jean-loup Gailly and Mark Adler; it does not
include third-party code.

If you redistribute modified sources, we would appreciate that you include
in the file ChangeLog history information documenting your changes. Please
read the FAQ for more information on the distribution of modified source
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