Third Party License Terms Guide
Version 1_05d – October 26, 2006
Updated November 24, 2006

QNX Software Systems incorporates certain third party software in our stack. The license terms associated with this software require that we give copyright and license information, and this Third Party License Terms Guide ("TPLTG") provides those details.

The third party software is used primarily in two areas. We use the GNU Compiler Tools, Debugger and GNU C++ libraries in the development suite. These applications are governed by the terms of either the GPL or LGPL, copies of which are reproduced below.
We also incorporate various third party software in our networking stack, mainly around the TCP/IP stack and related utilities.

As many of the licenses share common terms (the BSD license from the Regents of the University of California is the most common), rather than repeat the same text ad nauseam, we have abstracted those licenses. For unique licenses, we have provided the full license text.

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Preamble

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2	pppd	ANU	1993, 1995	none
3	pppd	Gregory M. Christy.	1991	none
4	pppd	Eric Rosenquist, Strata Software Limited. http://www.strataware.com/	1995	Modifications by Lauri Pesonen / lpesonen@clinet.fi, april 1997
5	pppd	Carnegie Mellon University.	1989	none
6	fs-cifs (also known as SMB client)	ANU	1993	none
7	fs-cifs (also known as SMB client)	Gregory M. Christy	1991	none
8	fs-cifs (also known as SMB client)	Eric Rosenquist, Strata Software Limited. http://www.strataware.com/	1995	Modifications by Laurie Pesonen / lpesonen@client.fi, April 1997
9	PppManager (also known as npm-pppmgr.so)	Carnegie Mellon University	1989	Serial Line interface Rick Adams Center for Seismic Studies 1300 N 17th Street, Suite 1450 Arlington, Virginia 22209 (703)276-7900 rick@seismo.ARPA seismo!rick Pounded on heavily by Chris Torek (chris@mimsy.umd.edu, umcp-cs!chris). Converted to 4.3BSD Beta by Chris Torek. Other changes made at Berkeley, based in part on code by Kirk Smith. Converted to 4.3BSD+ 386BSD by Brad Parker (brad@cayman.com) Added VJ tcp header compression; more unified ioctls Extensively modified by Paul Mackerras

				(paulus@cs.anu.edu.au). Cleaned up a lot of the mbuf-related code to fix bugs that caused system crashes and packet corruption. Changed pppstart so that it doesn't just give up with a collision if the whole packet doesn't fit in the output ring buffer. Added priority queueing for interactive IP packets, following the model of if_sl.c, plus hooks for bpf. Paul Mackerras (paulus@cs.anu.edu.au).
10	pppd	The Regents of the University of California	1989	None
11	PppManager (also known as npm-pppmgr.so)	The Regents of the University of California	1987	None
12	pax	Mark H. Colburn.	1989	Sponsored by The USENIX Association for public distribution.
13	Awk (link to gawk)	The Regents of the University of California	1983, 1987	None
14	tar	The Regents of the University of California	1983	None
15	Libsocks.so.1	The Regents of the University of California	1988	Author: Wietse Venema, Eindhoven University of Technology, The Netherlands. Adapted for use with SOCKS by Ying-Da Lee, NEC Systems Lab, CSTC ylee@syl.dl.nec.com
16	pppd	Paul Mackerras.	2000	None
17	pppd	Pedro Roque Marques	1995	None
18	pppd	Tommi Komulainen	1999	None

Brian Paul License

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2	Lib/mesa	Brian Paul	1999-2002	None
3	Lib/mesa	Marcus Sundberg [marcus@ggi-project.org]	1998-1999	None
4	Lib/mesa	Jon Taylor [taylorj@ggi-project.org]	1999-2000	None
5	Lib/mesa	Shobhan Kumar Dutta	1999	None
6	Lib/mesa	Bernd Kreimeier	1999-2000	None
7	Lib/mesa	Loki Entertainment	1999-2000	None
8	apps/input-methods/ko/lib/mim-1.0	Computing Research Labs, New Mexico State University	2000	None
9	Lib/mesa	Precision Insight, Inc., Cedar Park, Texas.	1998-1999	None
10	Lib/mesa	Tungsten Graphics Inc., Cedar Park, Texas.	2002	None
11	Chinese Input Method	X Consortium	1987, 1988	Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization.
12	devg-i830	Intel Corporation	2000	None

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1	npm-pppmgr.so	The Regents of the University of California	1987, 1989, 1993, 1994	none
2	ftp	The Regents of the University of California	1980, 1985, 1989, 1990	none
3	bootpd	The Regents of the University of California	1986, 1987	none
4	ftpd	The Regents of the University of California	1980,1985,1988 1989,1990	none
5	lib/misc	Todd C. Miller	1998	none
6	utils/e/ed	Andrew Moore, Talke Studio.	1993	none
7	libsocks.so	The Regents of the University of California	1983, 1988	none
8	ping	The Regents of the University of California	1989, 1993	Author - Mike Muuss U. S. Army Ballistic Research Laboratory December, 1983 Modified at UC Berkeley Record Route and

				verbose headers - Phil Dykstra, BRL, March 1988. Multicast options (ttl, if, loop) - Steve Deering, Stanford, August 1988. ttl, duplicate detection - Cliff Frost, UCB, April 1989 Pad pattern - Cliff Frost (from Tom Ferrin, UCSF), April 1989
9				*Intentionally blank.*
10	pppd	The Regents of the University of California	1989, 1993	None
11	rftp	The Regents of the University of California	1985, 1989	None
12	rlogin	The Regents of the University of California	1983	None
13	rlogind	The Regents of the University of California	1983, 1988, 1989, 1991	None
14	telnet	The Regents of the University of California	1988,1990, 1991, 1993	None
15	telnetd	The Regents of the University of California	1989, 1991, 1993	None
16	rtelnet	The Regents of the University of California	1988, 1990, 1991	None
17	rsh	The Regents of the University of California	1983,1989, 1990	None
18	rshd	The Regents of the University of California	1983,1988, 1989,1991	None
19	rwho	The Regents of the University of California	1983	None
20	rwhod	The Regents of the University of California	1983,1991	None
21	tftp	The Regents of the University of California	1983	None
22	tftpd	The Regents of the University of California	1983, 1991	None
23	syslogd	The Regents of the University of California	1982, 1983, 1986, 1988, 1989, 1990	None
24	nslookup	The Regents of the University of California	1985, 1989, 1990	None
25	inetd	The Regents of the University of California	1983, 1989, 1991	None
26	services/dhcp.client	The Internet Software Consortium	1995	None
27	Dhcp.client	The Internet Software Consortium	1995, 1996	This software has been written for the Internet Software Consortium by Ted Lemon in cooperation with Vixie Enterprises. To learn more about the Internet Software Consortium, see ``http://www.vix.com/isc''. To learn more about Vixie Enterprises, see ``http://www.vix.com''.
28	Dhcp.client	The Internet Software Consortium.	1996	Further modifications have been made for the Internet Software Consortium under a contract with Vixie Laboratories.

		RadioMail Corporation.	1995	This software was written for RadioMail Corporation by Ted Lemon under a contract with Vixie Enterprises.
29	traceroute	The Regents of the University of California	1990	This code is derived from software contributed to Berkley by Van Jacobson.
	lib/bind			None
30	Full TCP/IP Stack (npm-tcpip-v4.so & npm-tcpip-v6.so)	The Regents of the University of California	1982, 1986, 1989, 1991, 1993	Copyright 8 1997, Christopher G. Demetriou. All Rights Reserved.
31	Full TCP/IP Stack (npm-tcpip-v4.so & npm-tcpip-v6.so)	The Regents of the University of California	1988, 1989, 1993	None
32	Hostname	The Regents of the University of California	1983, 1988, 1990	None
33	lpd	The Regents of the University of California	1983, 1991, 1993	None
34	lpr	The Regents of the University of California	1980, 1982, 1983, 1986, 1990	None
35	lprc	The Regents of the University of California	1983, 1991,	None
36	lprq	The Regents of the University of California	1983, 1990	None
37	lprrm	The Regents of the University of California	1983, 1990	None
38	logger	The Regents of the University of California	1983, 1993	None
39	showmount	The Regents of the University of California	1989	This code is derived from software contributed to Berkeley by Rick Macklem at The University of Guelph.
40	route	The Regents of the University of California	1983, 1988, 1989, 1990, 1991, 1993	None
41	routed	The Regents of the University of California	1983, 1988, 1989, 1991, 1995	None
42	mount	The Regents of the University of California	1980, 1988, 1993, 1995	None
43	netstat	The Regents of the University of California	1983, 1988, 1990, 1992, 1993	Copyright (c) 1989 Stephen Deering. This code is derived from software contributed to Berkeley by Stephen Deering of Stanford University.
44				*Intentionally blank.*
45	NFS Client NFS Server	The Regents of the University of California	1989, 1991, 1993	This code is derived from software contributed to Berkeley by Rick Macklem at the University of Guelph.
46	queue.h	The Regents of the University of California	1991, 1993	none
47	fs-cifs (also known as SMB client)	The Regents of the University of California	1991, 1993	none
48				*Intentionally blank.*
49	ftpd	WIDE Project	1997 and 1998	none
50	inetd	WIDE Project	1995 - 1999	none
	lib/bind			
51	netstat	WIDE Project	1995-1999	none
52	telnetd	WIDE Project	1997 and 1998	none
53	libc.so.2	The Regents of the University of California	1982, 1983, 1986 - 1994	This code is derived from software contributed to Berkeley by Guido van Rossum.

54	libsocket.so.2	The NetBSD Foundation	2000	This code is derived from software contributed to The NetBSD Foundation by Jun-ichiro Hagino.
55	libsocket.so.2	WIDE Project	1995-1998	Definitions for IP multicast forwarding Written by David Waitzman, BBN Labs, August 1988. Modified by Steve Deering, Stanford, February 1989. Modified by Ajit Thyagarajan, PARC, August 1993. Modified by Ajit Thyagarajan, PARC, August 1994. Modified by Ahmed Helmy, USC, September 1996.
56	libsocket.so.2	The Regents of the University of California	1980, 1982, 1983, 1985 - 1995	This code is derived from the Stanford/CMU enet packet filter, (net/enet.c) distributed as part of 4.3BSD, and code contributed to Berkeley by Steven McCanne and Van Jacobson both of Lawrence Berkeley Laboratory. Copyright © 1988 Stephen Deering. This code is derived from software contributed to Berkeley by Stephen Deering of Stanford University. This code is derived from software contributed to Berkeley by Rick Macklem at The University of Guelph. Copyright (c) 1996 Matt Thomas. All rights reserved.
57	libsocket.so.2	Matthew R. Green.	1996	None
58	npm-ttcpip.so	The Regents of the University of California	1982, 1986, 1988, 1993	None
59	rtadvd services/rtsold	WIDE Project	1995 - 2000	None
60	rtadvd	John Brezak	1993	None
61	Racoon (IKE daemon)	WIDE Project	1995 – 2003	None
62	telnet	WIDE Project	1997, 1998	None
63	npm-tcpip.so	John T. Kohl	1995, 1997	None
64	npm-tcpip.so	Matthew R. Green	1995, 1996, 1998	None
65	npm-tcpip.so	SAITOH Masanobu	2000	None
66	npm-tcpip.so	WIDE Project	1995 - 2000	Written by Steve Deering, Stanford, May 1988. Modified by Rosen Sharma, Stanford, Aug 1994. Modified by Bill Fenner, Xerox PARC, Feb 1995. Portions of this software are Copyright 1998 by Randall Atkinson, Ronald Lee, Daniel McDonald, Bao Phan, and Chris Winters. All Rights Reserved. All rights under this copyright have been assigned to the US Naval Research Laboratory (NRL). The NRL Copyright Notice and License Agreement Version 1.1 (January 17, 1995) applies to these portions of the software. You should have received a copy of the license with this software. If you didn't get a copy, you may request one from <license@ipv6.nrl.navy.mil>.
67	dhcpd	The Internet Software Consortium	1995-1999	This software has been written for the Internet Software Consortium by Ted Lemon ,mellon@fugue.com> in cooperation with Vixie Enterprises. To learn more about the Internet Software Consortium, see ``http://www.vix.com/isc''. To learn more about Vixie Enterprises, see ``http://www.vix.com''.
68	dhcprelay	The Internet Software Consortium	1997-1999	This software has been written for the Internet Software Consortium by Ted Lemon ,mellon@fugue.com> in cooperation with Vixie Enterprises. To learn more about the Internet Software Consortium, see ``http://www.vix.com/isc''. To learn more about Vixie Enterprises, see ``http://www.vix.com''.
69	socks	The Regents of the University of California	1983, 1989	None
70	lib/sctp	Cisco Systems, Inc.	2001, 2002	None
71	traceroute services/route6d	WIDE Project	1995-1998	None
72	utils/s/setkey services/rtadvd	WIDE Project	1995 - 1999	None

	services/rtsold utils/n/ndp			
73				*Intentionally blank*
74				*Intentionally blank*
75	utils/p/ping6	WIDE Project	1995 - 1998	None
76	lib/ipsec	WIDE Project	1995 - 1999	None
77				*Intentionally blank*
78				*Intentionally blank*
79	utils/n/ndp	The Regents of the University of California	1997	None
80	utils/f/ftp	WIDE Project	1997, 1998	None
81	services/dhcpd	Internet Software Consortium.	1996-2001	This code was originally contributed by Archie Cobbs, and is still very similar to that contribution, although the packet checksum code has been hacked significantly with the help of quite a few ISC DHCP users, without whose gracious and thorough help the checksum code would still be disabled. This software has been written for the Internet Software Consortium by Ted Lemon in cooperation with Vixie Enterprises and Nominum, Inc. To learn more about the Internet Software Consortium, see ``http://www.isc.org/''. To learn more about Vixie Enterprises, see ``http://www.vix.com''. To learn more about Nominum, Inc., see ``http://www.nominum.com''. Many, many thanks to Brian Murrell and BCtel for this code – Bctel provided the funding that resulted in this code and the entire OMAPI support library being written, and Brian helped brainstorm and refine the requirements. To the extent that this code is useful, you have Brian and BCtel to thank. Any limitations in the code are a result of mistakes on my part. -- Ted Lemon This software was written for the Internet Software Consortium by Eric James Negaard, lmdejn@lmd.ericsson.se>. To learn more about the Internet Software Consortium, see "http://www.isc.org". Joost Mulders has also done considerable work in debugging the DLPI API support on Solaris and getting this code to work properly on a variety of different Solaris platforms.
82	services/dhcpd	RadioMail Corporation	1995	None
83	hsqldb (Updated November 24, 2006)	The HSQL Development Group	2001 – 2005	None

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1	BIND	WIDE Project	1995, 1996, 1997, 1998	None
2	TCP/IP	The NetBSD Foundation, Inc.	1995, 1996, 1997, 1998	Parts of this code is derived from software contributed to The NetBSD Foundation by Jason R. Thorpe of the Numerical Aerospace Simulation Facility, NASA Ames Research Center and from software contributed to the NetBSD Foundation by Lennart Augustsson (lennart@augustsson.net) at Carlstedt Research & Technology. This code is derived from software contributed to The NetBSD Foundation by Public Access Networks Corporation ("Panix"). It was developed under contract to Panix by Eric Haszlakiewicz and Thor Lancelot Simon. This code is derived from software contributed to The NetBSD Foundation by Christos Zoulas. This code is derived from software contributed to The NetBSD Foundation by Jason R. Thorpe of the Numerical Aerospace Simulation Facility, NASA Ames Research Center. This code is derived from software contributed to The NetBSD Foundation by Charles M. Hannum.
3	Mbuf.h (tiny TCP/IP	The Regents of the	1982, 1986,	None

		Stack)	University of California	1988, 1993	
4	route		Christos Zoulas.	1997	None
5	ifconfig		The Net BSD Foundation, Inc.	1997, 1998, 2000	This code is derived from software contributed to The NetBSD Foundation by Jason R. Thorpe of the Numerical Aerospace Simulation Facility, NASA Ames Research Center.
6	ifconfig		The Regents of the University of California	1983, 1993	None
7	PppManager (also known as npm-pppmgr.so)		The Regents of the University of California	1989, 1993, 1994	None
8	arp		The Regents of the University of California	1984, 1993	This code is derived from software contributed to Berkeley by Sun Microsystems, Inc.
9	/sbin/devu-kbd-amand a		The Net BSD Foundation, Inc.	1998	This code is derived from software contributed to The NetBSD Foundation by Lennart Augustsson(lennart@augustsson.net) at Carlstedt Research & Technology.
10	/lib/libamanda.so.2		Hitachi Semiconductor (America)	2000, 2001, 2002	None
11	fs-nfs2		The Regents of the University of California	1991, 1993	None
12	ftp		The Regents of the University of California	1985, 1989, 1993, 1994	None
13	ftp		The NetBSD Foundation, Inc.	1996-2000	This code is derived from software contributed to The NetBSD Foundation by Luke Mewburn.
14	ftpd		The NetBSD Foundation, Inc.	1999-2000	This code is derived from software contributed to The NetBSD Foundation by Luke Mewburn.
15	ftpd		The Regents of the University of California	1985, 1988 -1990, 1992- 1994	This code is derived from software written by Ken Arnold and published in UNIX Review, Vol. 6, No. 8.
16	Hostname		The Regents of the University of California	1983, 1988	None
17	inetd		The NetBSD Foundation, Inc.	1997, 1998	None
18	inetd		The Regents of the University of California	1983, 1989, 1991, 1993, 1994	This code is derived from the Stanford/CMU enet packet filter, (net/enet.c) distributed as part of 4.3BSD, and code contributed to Berkeley by Steven McCanne and Van Jacobson both of Lawrence Berkeley Laboratory.
19	libsocket.so.2		Matthew R. Green.	1996, 1997	None
20	libsocket.so.2		The NetBSD Foundation, Inc.	1996-2000	This code is derived from software contributed to The NetBSD Foundation by Luke Mewburn. This code is derived from software contributed to The NetBSD Foundation by William Studnemund and Jason R. Thorpe. This code is derived from software contributed to The NetBSD Foundation by Heiko W.Rupp, hwr@pilhuhn.de This code is derived from software contributed to The NetBSD Foundation by Jason R. Thorpe of the Numerical Aerospace Simulation Facility, NASA Ames Research Center. This code is derived from software contributed to The NetBSD Foundation by Andrew Doran. This code is derived from software contributed to The NetBSD Foundation by Public Access Networks Corporation ("Panix"). It was developed under contract to Panix by Eric Haszlakiewicz and Thor Lancelot Simon.
21	libsocket.so.2		Jonathan Stone and Jason R. Thorpe.	1997	This software is derived from information provided by Matt Thomas.
22	rtadvd		The Regents of the University of California	1983	None
23	Racoon (IKE daemon)		Wasabi Systems, Inc.	2000	This software was written by Frank van der Linden of Wasabi Systems for Zembu Labs, Inc. http://www.zembu.com/
24	io-blk.so		The Regents of the University of California	1991, 1993	None
25	devu-ohci		The Regents of the	1991, 1993	Portions Copyright 1999, Thierry Giron, All rights Reserved.

		University of California		
26	duvu-kbd	The NetBSD Foundation, Inc.	1998	This code is derived from software contributed to The NetBSD Foundation by Lennart Augustsson (lennart@augustsson.net) at Carlstedt Research & Technology.
27	route	The Regents of the University of California	1983, 1988, 1989, 1991, 1993	None
28	route	Christos Zoulas	1997	None
29	Libsocks.so.1	The Regents of the University of California	1983	Author: Wietse Venema, Eindhoven University of Technology, The Netherlands. Adapted for use with SOCKS by Ying-Da Lee, NEC Systems Lab, CSTC yle e@syl.dl.nec.com
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32	npm-tcpip.so	Matthias Drochner	1997	None
33	npm-tcpip.so	The NetBSD Foundation, Inc.	1996 – 2001	This code is derived from software contributed to The NetBSD Foundation by Jason R. Thorpe of the Numerical Aerospace Simulation Facility, NASA Ames Research Center, and by Luke Mewburn, Christopher G. Demetriou, John T. Kohl, Paul Kranenburg, William Studnemund, Heiko W. Rupp (hwr@pilhuhn.de), Jun-ichiro itojun Hagino, Tim Rightnour, Bill Squier, Christos Zoulas, Klaus J. Klein, Lennart Augustsson (augustss@netbsd.org), Matthias Drochner, Bill Sommerfeld, Ross Harvey and Charles M. Hannum. This code is derived from software contributed to The NetBSD Foundation by Public Access Networks Corporation ("Panix"). It was developed under contract to Panix by Eric Haszlakiewicz and Thor Lancelot Simon. This code is derived from software contributed to The NetBSD Foundation by the 3am Software Foundry ("3am"). It was developed by Matt Thomas. This code is derived from software contributed to The NetBSD Foundation by Michael Graff <explorer@flame.org>. This code uses ideas and algorithms from the Linux driver written by Ted Ts'o. This code is derived from software contributed to The NetBSD Foundation by Jason R. Thorpe of Wasabi Systems, Inc. This code contributed to The NetBSD Foundation by Kevin M. Lahey of the Numerical Aerospace Simulation Facility, NASA Ames Research Center. This code is derived from software contributed to The NetBSD Foundation by Martin Husemann <martin@netbsd.org>. This code is derived from software contributed to The NetBSD Foundation by Andrew Doran, and by Jason R. Thorpe of Zembu Labs, Inc.
34	npm-tcpip.so	Christos Zoulas	1994 - 1996	None
35	npm-tcpip.so	Charles Hannum	1993, 1995, 1996, 1997	None
36	npm-tcpip.so	Frank van der Linden	1995	None
37	npm-tcpip.so	William F. Jolitz	1989, 1990	None
38	npm-tcpip.so	Charles D. Cranor and	1996	None

		Washington University		
39	npm-tcpip.so	Jonathan Stone and Jason R. Thorpe	1997	None
40	npm-tcpip.so	Stephen Deering	1988	None
41	npm-tcpip.so	Jason R. Thorpe	1996	None
42	npm-tcpip.so	Paul Kranenburg	1994	None
43	npm-tcpip.so	Theo de Raadt	1993	None
44	npm-tcpip.so	Adam Glass	1994	None
45	npm-tcpip.so	University of Utah	1988	None
46	npm-tcpip.so	Leo Weppelman	1996	None
47	npm-tcpip.so	Terrence R. Lambert	1992	None
48	npm-tcpip.so	Winning Strategies, Inc.	1994	None
49	npm-tcpip.so	Kenneth Stailey	1995	None
50	libusbdi.so.2	The Regents of the University of California	1991, 1993	None
55	Deva-ctrl-audiopci.so	The NetBSD Foundation	1998, 1999	This code is derived from software contributed to The NetBSD Foundation by Lennart Augustsson (augustss@netbsd.org) and Charles M. Hannum.
56	nohup	The Regents of the University of California	1989, 1993	None
57	pr	The Regents of the University of California	1993	Copyright 1991 Keith Muller
58	Lib/yp	Jason R. Thorpe	1996	None
59	Lib/yp	Theo de Raadt	1992, 1993	None
60	lib/rpc	The NetBSD Foundation, Inc.	1997,98	This code is derived from software contributed to The NetBSD Foundation by J.T. Conklin.
61	Lib/yp	Christos Zoulas	1994 - 1996	None
62	services/net/nfm/bpf	The Regents of the University of California	1990 - 1997	This code is derived from the Stanford/CMU enet packet filter, (net/enet.c) distributed as part of 4.3BSD, and code contributed to Berkeley by Steven McCanne and Van Jacobson both of Lawrence Berkeley Laboratory.
63	services/tinit	The Regents of the University of California	1991, 1993	None
64	Services/ntp	Trimble Navigation Ltd.	1997, 1998, 1999, 2000	This software was developed by the Software and Component Technologies group of Trimble Navigation, Ltd.
65	utils/m/mkdosfs	Martin Husemann	1995	Portions Copyright 1995 Wolfgang Solfrank & Martin Huseman. All Rights Reserved.
66	utils/m/mkdosfs	Wolfgang Solfrank	1995	Portions Copyright 1995 Wolfgang Solfrank & Martin Huseman. All Rights Reserved.
67	services/net/npm/ tcpip-1-5 IPV6	Adam Glass and Charles M. Hannum	1994	None
68	services/net/npm/ tcpip-1-5 IPV6	Wolfgang Solfrank	1992	None
69	services/net/npm/ tcpip-1-5 IPV6	TooLs GmbH	1992	None
70	services/net/npm/ tcpip-1-5 IPV6	Jan-Simon Pendry.	1993	None
71	services/net/npm/ tcpip-1-5 IPV6	Ignatios Souvatzis	1994, 1995	None
72	services/net/npm/ tcpip-1-5 IPV6	Wasabi Systems, Inc.	2001	Written by Jason R. Thorpe for Wasabi Systems, Inc.
73	services/net/npm/ tcpip-1-5 IPV6	Jason L. Wright (jason@thought.net)	1999, 2000	None
74	services/net/npm/ tcpip-1-5 IPV6	Matt Thomas	1995, 1996	None
75	services/net/npm/ tcpip-1-5 IPV6	Onno van der Linden	1997-1999	None
76	utils/r/rcp utils/r/rlogin	The Regents of the University of California.	1983, 1990	None
77	utils/t/telnet	The Regents of the University of California	1991, 1993	None
78	utils/f/fmt	The Regents of the	1980, 1993	None

	utils/f/fold	University of California		
	utils/m/mailx			
79	lib/telnet	The NetBSD Foundation, Inc.	1997, 1998, 2000	None
80	lib/telnet	The Regents of the University of California	1989, 1993	None
81	utils/n/named-xfer	The Regents of the University of California	1988, 1990	None
82	utils/n/ndp	The Regents of the University of California	1984, 1993	None
83	utils/r/rtquery	The Regents of the University of California	1982, 1986, 1993	None
84	utils/s/sysctl	The Regents of the University of California	1993	None
85	services/named	The Regents of the University of California	1985,1986, 1988, 1990	None
86	services/named	The NetBSD Foundation, Inc.	1995, 1998	None
87	utils/s/split	The Regents of the University of California	1987, 1993, 1994	None
88	services/dhcpd	The Regents of the University of California	1985, 1993	None
	lib/misc			
89	utils/d/date	The Regents of the University of California	1987, 1993, 1994	None
90	lib/bind	The Regents of the University of California	1980, 1983, 1985, 1987, 1988, 1989, 1990, 1993, 1995	Copyright (C) RSA Data Security, Inc. created 1986, 1987, 1990, 1992, 1993, 1994, and 1996. This is an unpublished work protected as such under copyright law. This work contains proprietary, confidential, and trade secret information of RSA Data Security, Inc. Use, disclosure or reproduction without the express written authorization of RSA Data Security, Inc. is prohibited.
91	lib/ncurses	The Regents of the University of California.	1983, 1989, 1991, 1993 1994	This code is derived from the Stanford/CMU enet packet filter, (net/enet.c) distributed as part of 4.3BSD, and code contributed to Berkeley by Steven McCanne and Van Jacobson both of Lawrence Berkeley Laboratory.
92	utils/g/getty	The Regents of the University of California.	1989, 1992, 1993, 1994	None
93	services/lpd	The Regents of the University of California.	1982, 1983, 1986, 1989, 1990	None
94	utils/i/indent	Sun Microsystems, Inc.	1985	
		Board of Trustees of the University of Illinois	1976	None
		The Regents of the University of California.	1980, 1993	
95	utils/s/script	The Regents of the University of California.	1980, 1992, 1993	None
96	utils/u/unifdef	The Regents of the University of California.	1985, 1993	This code is derived from software contributed to Berkeley by Dave Yost
97	utils/w/who	The Regents of the University of California.	1989, 1993	This code is derived from software contributed to Berkeley by Michael Fischbein
98	services/qconn	The Regents of the University of California.	1982, 1986, 1992, 1993	None
99	libsocket.so.2	US Naval Research Laboratory (NRL).	1995	Portions of this software are Copyright 1998 by Randall Atkinson, Ronald Lee, Daniel McDonald, Bao Phan, and Chris Winters. All Rights Reserved. All rights under this copyright have been assigned to the US Naval Research Laboratory (NRL). The NRL Copyright Notice and License

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100	devkit/compat.c	Regents of the University of California	1988	None

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1	less / more	Mark Nudelman	1984,1985,1989,1994,1995,1996	None
2	rtadvd	Andrey A. Chernov	1994,1995	None
3	mkdosfs	Robert Nordier.	1998	None
4	lpfilter services/net/ npm/tcpip-1-5/lsm/ipfilter	Paul J. Ledbetter III	2002	None
5	services/net/ npm/tcpip-1-5/lsm/ipfilter	Hideo "Sir MANMOS" Morishita	1997	heavily modified by Tomomi Suzuki suzuki@grelot.elec.ryukoku.ac.jp The CAST-128 Encryption Algorithm (RFC 2144) original implementation <Hideo "Sir MaNMOS" Morisita> 1997/08/21
6	Lib/mesa	Theo de Raadt	1997	None
7	Lib/socket	Sony Computer Science Laboratories Inc.	1997-2000	None

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2	bootpd	Carnegie Mellon University	1988, 1989, 1991	None
3	pppd	Carnegie Mellon University	1989	None
4	libsnmp.so	Carnegie Mellon University	1988, 1989, 1991, 1992, 1993	None
5	snmpget	Carnegie Mellon University	1988, 1989, 1991, 1992	None
6				*Intentionally blank*
7	vmail	Carnegie Mellon University	1994, 1996	None
8	vmail	University of Washington and Leyland Stanford University	1988, 1999	None
8.5	vmail	University of Washington	1997	None
9	netstat	IBM Corporation	1987	None
10	libph.so.2	Digital Equipment Corporation, Maynard, Massachusetts, and the Massachusetts Institute of Technology, Cambridge, Massachusetts	1987	None
11	libsocket.so.2	Carnegie Mellon University	1988, 1989	None
12	libsocket.so.2	The NetBSD Foundation	1997, 1998, 1999	None

13	Chinese Input Method	Digital Equipment Corporation, Maynard	1987, 1988	None
14	services/snmpd	Carnegie Mellon University	1993	None
15				*Intentionally blank*
16				*Intentionally blank*
17	utils/s/snmpgetnext utils/s/snmpstatus	Carnegie Mellon University	1988, 1989	None
18	utils/s/snmpnetstat	Carnegie Mellon University	1989, 1991, 1992	None
19				*Intentionally blank*
20				*Intentionally blank*
21				*Intentionally blank*
22				*Intentionally blank*
23				*Intentionally blank*
24				*Intentionally blank*
25				*Intentionally blank*
26				*Intentionally blank*
27				*Intentionally blank*
28	services/named	Internet Software Consortium	1996-2000	None
29	lib/mesa	Silicon Graphics, Inc.	1991-1997	Users Restricted Rights Use, duplication, or disclosure by the Government is subject to restrictions set forth in FAR 52.227.19(c)(2) or subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 and/or in similar or successor clauses in the FAR or the DOD or NASA FAR Supplement. Unpublished-- rights reserved under the copyright laws of the United States. Contractor/manufacturer is Silicon Graphics, Inc., 2011 N. Shoreline Blvd., Mountain View, CA 94039-7311. OpenGL(R) is a registered trademark of Silicon Graphics, Inc.
30	apps/savers/phattract	Stanford University	1987, 1988, 1989	None
31	lib/mesa	Sun Microsystems	1989,1990, 1991	None
32	lib/mesa	Vrije Universiteit, The Netherlands	1992	None
33	bind	Internet Software Consortium, Inc.	1993-2000	None

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3	BIND	Digital Equipment Corporation	1993	None
4				*Intentionally blank*
5				*Intentionally blank*
6	libc.so.2	Internet Software Consortium	1996	None
7	libsocket.so.2	Internet Software Consortium	1996, 1999	None
8	libsocket.so.2	Digital Equipment Corporation	1993	None
9	socks	NEC Systems Laboratory	1993, 1994	None
10	utils/n/named-xfer nslookup services/dhcpd BIND	Digital Equipment Corporation	1993	None
11	services/named	Check Point Software Technologies, Inc.	1999	None
12				*Intentionally blank*
13	services/dhcpd	Internet Software Consortium	1999-2003	None
14	services/dhcpd	Trusted Information Systems, Inc.	1995-1998	None

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Version 2, June 1991

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3	tar	the Free Software Foundation	1990 - 1999	This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.c om> contributed the Cray support. Originally written by Steven M. Bellovin <sm b@research.att.com> while at the University of North Carolina at Chapel Hill. Later tweaked by a couple of people on Usenet. Completely overhauled by Rich $alz <rsalz@b bn.com> and Jim Berets <jberets @bbn.com> in August, 1990.
4	sed	the Free Software Foundation	1987 - 1998	This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.c om> contributed the Cray support.
5				*Intentionally Blank*
6	lib/mmedia/codecs/ ffmpeg/libavcodec	Aaron Holtzman	1999-2001	This file is part of mpeg2dec, a free MPEG-2 video stream decoder.
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8	lib/mmedia/codecs/ ffmpeg/libavcodec	Aaron Holtzman	1999-2000	This file is part of a52dec, a free ATSC A-52 stream decoder. See http://liba52.sourceforge.net/ for updates
9				*Intentionally Blank*
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11	lib/mmedia/codecs/ ffmpeg/libavcodec	Michael Niedermayer	2001, 2002	None
12				*Intentionally Blank*
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14	lib/mmedia/codecs/ ffmpeg/libavcodec	Peter Mattis, Spencer Kimball and Josh MacDonald	1995-1997	Copyright (C) 2000 Sebastian Wilhelmi; University of Karlsruhe Copyright 2001 Hans Breuer Copyright (C) 1998 Tim Janik Copyright 1998 Owen Taylor
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17	lib/mmedia/codecs/ ffmpeg/libavcodec	Lennert Buytenhek	2002	None
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19				*Intentionally Blank*
20				*Intentionally Blank*
21	lib/mmedia/codecs/ ffmpeg/libavcodec	xine project & ffmpeg project	2002	None
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32	services/mrouted	Free Software Foundation, Inc.	1984, 1989, 1990	None
33	dd	Free Software Foundation, Inc.	1985, 1990, 1991	Written by Paul Rubin, David MacKenzie, and Stuart Kemp
34				*Intentionally Blank*
35	lib/mmedia/codecs/ ffmpeg/libavcodec	Fabrice Bellard, Michael Niedermayer, Juan J. Sierralta P., Aaron Holtzman, Michel Lespinasse	1999-2002	None
36	lib/mesa	Jeroen van der Zijp jvz@cyberia.cfdrc.com Uwe Maurer - uwe_maurer@t-online.de Thorsten.Ohl @ Physik.TH-Darmstadt.de	1994-1998	Parts Copyright (c) Mark J. Kilgard, 1994
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9				*Intentionally Blank*

10				*Intentionally Blank*
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13	libasound.so.2	Jaroslav Kysela <perex@suse.cz>	1998, 1999	None
14	libsocket.so.2	Uros Bizjak uros@kss-loka.si and Jaroslav Kysela perex@suse.cz	1999	Ima-ADPCM conversion Plug-In Interface. Based on Version 1.2, 18-Dec-92 implementation of Intel/DVI ADPCM code by Jack Jansen, CWI, Amsterdam <Jack.Jansen@cwi.nl>, Copyright 1992 by Stichting Mathematisch Centrum, Amsterdam, The Netherlands.

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25	libph.so.2	COPYRIGHT (C) 1986 Gary S. Brown. You may use this program, or code or tables extracted from it, as desired without restriction. First, the polynomial itself and its table of feedback terms. The polynomial is $X^{32}+X^{26}+X^{23}+X^{22}+X^{16}+X^{12}+X^{11}+X^{10}+X^8+X^7+X^5+X^4+X^2+X^1+X^0$ Note that we take it "backwards" and put the highest-order term in the lowest-order bit. The X^{32} term is "implied"; the LSB is the X^{31} term, etc. The X^0 term (usually shown as "+1") results in the MSB being 1. Note that the usual hardware shift register implementation, which is what we're using (we're merely optimizing it by doing eight-bit chunks at a time) shifts bits into the lowest-order term. In our implementation, that
	libphexlib.so.2	means shifting towards the right. Why do we do it this way? Because the calculated CRC must be transmitted in order from highest-order term to lowest-order term. UARTs transmit characters in order from LSB to MSB. By storing the CRC this way, we hand it to the UART in the order low-byte to high-byte; the UART sends each low-bit to hight-bit; and the result is transmission bit by bit from highest- to lowest-order term without requiring any bit shuffling on our part. Reception works similarly. The feedback terms table consists of 256, 32-bit entries. Notes: The table can be generated at runtime if desired; code to do so is shown later. It might not be obvious, but the feedback terms simply represent the results of eight shift/xor operations for all combinations of data and CRC register values. The values must be right-shifted by eight bits by the "updcrc" logic; the shift must be unsigned (bring in zeroes). On some hardware you could probably optimize the shift in assembler by using byte-swap instructions. polynomial $edb88320 Ported to QNX by Thorsten Lockert and Dan Hildebrand, September, 1989
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and/or
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README
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The Independent JPEG Group's JPEG software |

The Independent JPEG Group's JPEG software
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README for release 6b of 27-Mar-1998
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This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to 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
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This file contains the following sections:

OVERVIEW   General description of JPEG and the IJG software.
LEGAL ISSUES   Copyright, lack of warranty, terms of distribution.
REFERENCES   Where to learn more about JPEG.
ARCHIVE LOCATIONS   Where to find newer versions of this software.
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
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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 achieved that goal in every aspect of the software, but we strive for it.

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

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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.

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."
REFERENCES
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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 IEEE, and it may not be used for commercial purposes.

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

The best 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

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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/jpe g-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
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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
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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!

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.

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		Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA. This kit builds a DES encryption library and a DES encryption program. It suports ecb, cbc, ofb, cfb, triple ecb, triple cbc and MIT's pcbc encryption modes and also has a fast implementation of crypt(3). It contains support routines to read keys from a terminal, generate a random key, generate a key from an arbitary length string, read/write encrypted data from/to a file descriptor. The implementation was written so as to conform with the manual entry for the des_crypt(3) library routines from MIT's project Athena. destest should be run after compilation to test the des routines. rpw should be run after compilation to test the read password routines. The des program is a replacement for the sun des command. I believe it conforms to the sun version. The Imakefile is setup for use in the kerberos distribution. These routines are best compiled with gcc or any other good optimising compiler. Just turn you optimiser up to the highest settings and run destest after the build to make sure everything works. I believe these routines are close to the fastest and most portable DES routines that use small lookup tables (4.5k) that are publicly available. The fcrypt routine is faster than ufc's fcrypt (when compiling with gcc2 -O2) on the sparc 2 (1410 vs 1270) but is not so good on other machines (on a sun3/260 168 vs 336). Eric Young (eay@psych.psy.uq.oz.au)
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108	lib/mmedia/codecs/ ffmpeg/libavcodec	*See GPL #35*
109	lib/mmedia/codecs/ ffmpeg/libavcodec	*See GPL #35*
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114	lib/imaging/dll/io/ support/jpeg-6b	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.
115	lib/imaging/dll/io/ support/jpeg-6b	*See OO #17*
116	lib/imaging/dll/io/ support/jpeg-6b	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.
117	lib/imaging/dll/io/ support/jpeg-6b	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.
118	lib/imaging/dll/io/ support/jpeg-6b	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 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.
119	lib/imaging/dll/io/ support/jpeg-6b	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.
120	lib/imaging/dll/io/ support/jpeg-6b	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.

121	lib/imaging/dll/io/ support/jpeg-6b	Copyright (C) 1995-1998, 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 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.
122	lib/imaging/dll/io/ support/jpeg-6b	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.
123	lib/imaging/dll/io/ support/jpeg-6b	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 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.
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