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		bzip2	BSD License	別紙 2 5
		Emulex Driver for Linux	GNU General Public License version 2	別紙 3
		GNU C Library(glibc)	—	別紙 5 8
			GNU General Public License version 2	別紙 3
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		Red Hat Enterprise Linux 6 server	GNU General Public License version 2	別紙 3
		Texinfo	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		Oracle Berkeley DB 4	Sleepycat and BSD	別紙 1 2
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		libgpg-error	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
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		e2fsprogs	MIT License	別紙 1 6
			GNU General Public License version 2	
			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	
		net-tools	GNU GENERAL PUBLIC LICENSE	別紙 5
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		module-init-tools	GNU General Public License version 2	別紙 3
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		ethtool	GNU General Public License version 2	別紙 3
		udev	GNU General Public License version 2	別紙 3
		plymouth	GNU General Public License version 2	別紙 3
		KBD	GNU General Public License version 2	別紙 3
		ISC DHCP	ISC License	別紙 1 8
		Portable OpenSSH	BSD License	別紙 4 6
		genisoimage	GNU General Public License version 2	別紙 3
		bc	GNU General Public License version 2	別紙 3
		time command	GNU General Public License version 2	別紙 3
		nkf	—	別紙 2 0
		filesystem	Public Domain	—
		Ncurses	MIT License	別紙 2 1
		D-Bus	Academic Free License version 2.1	別紙 2 2
			GNU General Public License version 2	別紙 3
		libsepol	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
			GNU LESSER GENERAL PUBLIC LICENSE Version 3	別紙 2 3
		libjpeg-turbo	wxWidgets	別紙 2 4
		elfutils-libelf	GNU General Public License version 2	別紙 3
			GNU LESSER GENERAL PUBLIC LICENSE Version 3	別紙 2 3
		Findutils	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		ca-certificates	Public Domain	—
		GMP	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
			GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
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		Diffutils	GNU General Public License version 2	別紙 3

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		Network Security Services(NSS)	Mozilla Public License Version 2.0	別紙 6 3
		passwd	BDS License	別紙 2 7
			GNU General Public License version 2	
		iptables	GNU General Public License version 2	別紙 3
		device-mapper-libs	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		Cronie	MIT License	別紙 2 8
			BSD License	
			ISC License	
		telnet	BSD License	別紙 3 2
		secure and fastest FTP server	—	別紙 2 9
		UnZip	BSD License	別紙 3 0
		dosfstools	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		traceroute	GNU General Public License version 2	別紙 3
		redhat-release	GNU General Public License version 2	別紙 3
		libcap	BSD License	別紙 3 1
		chkconfig	GNU General Public License version 2	別紙 3
		sed	GNU General Public License version 2	別紙 3
		libblkid	GNU General Public License version 2	別紙 3
		Grep	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		sysvinit	GNU General Public License version 2	別紙 3
		libgcrypt-devel	GNU General Public License version 2	別紙 3
			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		checkpolicy	GNU General Public License version 2	別紙 3
		Pluggable Authentication Modules	BSD License	別紙 3 4
			GNU General Public License version 2	別紙 3
		fipscheck	BSD License	別紙 3 5
		initcrypt	GNU General Public License version 2	別紙 3
		LUKS(Linux Unified Key Setup)	GNU General Public License version 2	別紙 3

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		ntpddate	MIT License	別紙 2 1
			BDS License	別紙 3 2
			GNU General Public License version 2	別紙 3
		rsyslog	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
			GNU LESSER GENERAL PUBLIC LICENSE Version 3	別紙 2 3
			Apache License Version 2.0	別紙 3 6
		OpenLDAP	OpenLDAP Public License Version 2.8	別紙 3 7
		tmpwatch	GNU General Public License version 2	別紙 3
		vim	BSD License	別紙 3 8
		Linux-native asynchronous I/O	GNU General Public License version 2	別紙 3
		rootfiles	Public Domain	—
		GCC(GNU Compiler Collection)	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		Time Zone Database	Public Domain	—
		libattr	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		popt	MIT License	別紙 3 9
		shadow tool	BSD License	別紙 1 4
			GNU General Public License version 2	別紙 3
		Gawk	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		pkg-config	GNU General Public License version 2	別紙 3
		Portable Network Graphics	libpng License	別紙 6 2
		Perl Compatible Regular Expressions	BSD License	別紙 4 0
		libcrypt	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		XZ Utils	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		LibTIFF	LibTIFF Software License	別紙 4 1
		libusb	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		Editline Library	BSD License	別紙 4 2
		PCI Utilities	GNU General Public License version 2	別紙 3
		SQLite	Public Domain	—
		LANANA Linux Device List	GNU General Public License version 2	別紙 3
		Procps	GNU General Public License version 2	別紙 3
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			PUBLIC LICENSE Version 2.1	
		ACL	GNU General Public License version 2	別紙 3
		which	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		shared-mime-info	GNU General Public License version 2	別紙 3
		DASH	BSD License	別紙 6 6
		Coreutils	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		hwdata	GNU General Public License version 2	別紙 3
		polkit (PolicyKit)	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		GNU dbm	GNU General Public License version 2	別紙 3
		keyutils	GNU General Public License version 2	別紙 3
			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		libpcap	BSD License	別紙 4 3
		Netpbm	—	別紙 4 4
			—	別紙 4 5
			GNU General Public License version 2	別紙 3
		iputils	BDS License	別紙 3 2
			GNU General Public License version 2	別紙 3
			Rdisc License	別紙 6 4
		OpenSSH	BSD License	別紙 4 6
		Cyrus SASL Library	BSD License	別紙 4 7
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		Linux keyboard tools	GNU General Public License version 2	別紙 3
		kernel	GNU General Public License version 2	別紙 3
		sysstat	GNU General Public License version 2	別紙 3
		usermode	GNU General Public License version 2	別紙 3
		tcpdump	BSD License	別紙 4 8
		nc	BSD License	別紙 3 2
		elfutils	GNU General Public License version 2	別紙 3
			GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
			GNU LESSER GENERAL PUBLIC LICENSE Version 3	別紙 2 3
		ftp	BSD License	別紙 3 2

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		hesiod	MIT License	別紙 2 1
		rsh	BSD License	別紙 3 2
		zip	BSD License	別紙 5 0
		basesystem	Public Domain	—
		Bash	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		Netscape Portable Runtime	Mozilla Public License Version 2.0	別紙 6 3
		libselinux	Public Domain	—
		libuuid	BSD License	別紙 3 2
		Libtasn1	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		tcp_wrappers	BSD License	別紙 5 1
		psmisc	GNU General Public License version 2	別紙 3
		libudev	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		libutempter	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		Make	GNU General Public License version 2	別紙 3
		grubby	GNU General Public License version 2	別紙 3
		CrackLib	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		libpciaccess	MIT License	別紙 5 2
		pam_ldap	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		small Linux console getty	GNU General Public License version 2	別紙 3
		iproute	GNU General Public License version 2	別紙 3
			Public Domain	—
		Device-mapper	GNU General Public License version 2	別紙 3
		Hardware Abstraction Layer	Academic Free License version 2.1	別紙 2 2
			GNU General Public License version 2	別紙 3
		GnuTLS	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		lockdev	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		finger	BSD License	別紙 3 2
		vconfig	GNU General Public License	別紙 3

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		Libidn	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		p11-glue	BSD License	別紙 5 5
		cpio	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		libnih	GNU General Public License version 2	別紙 3
		Gamin	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		GNU troff	GNU General Public License version 2	別紙 3
			GNU Free Documentation License Version 1.3	別紙 6 5
		MySQL	GNU General Public License version 2	別紙 3
			Oracle's Free and Open Source Software ("FOSS") License	別紙 5 6
		plymouth-core	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		util-linux-ng	GNU General Public License version 2	別紙 3
			GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
			BSD License	別紙 2 6
			Public Domain	—
		libdrm	MIT License	別紙 2 1
		xinetd	xinetd	別紙 5 7
		kernel-firmware	—	別紙 5 3
		M4	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		libsysfs	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		ser2net	GNU GENERAL PUBLIC LICENSE	別紙 1 7
		Setup	Public Domain	—
		Audit	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		Expat XML Parser	MIT	別紙 5 9
		libcap-ng	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		Tar	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		Binutils	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		gzip	GNU General Public License	別紙 3

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			GNU Free Documentation License Version 1.3	別紙 6 5
		logrotate	GNU GENERAL PUBLIC LICENSE	別紙 1 7
		nscd	—	別紙 5 8
			GNU General Public License version 2	別紙 3
			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		Kerberos	MIT Library	別紙 3 3
		libuser	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		polycoreutils	GNU General Public License version 2	別紙 3
		Postfix	IBM	別紙 6 0
		nss-pam-ldapd	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		TFTP	BSD License	別紙 3 2
		bridge-utils	GNU General Public License version 2	別紙 3
		setserial	GNU GENERAL PUBLIC LICENSE	別紙 1 7
		Simple HTTPD	THE BEER-WARE LICENSE	別紙 6 1
		FreeRADIUS	GNU General Public License version 2	別紙 3
			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		libtool-ltdl	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5

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Version 2, June 1991

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Theodore Ts'o
23-June-2007

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** Background

libjpeg-turbo is a derivative of libjpeg that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as the unmodified version of libjpeg, all else being equal.

libjpeg-turbo was originally based on libjpeg/SIMD by Miyasaka Masaru, but the TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, including improved support for Mac OS X, 64-bit support, support for 32-bit and big-endian pixel formats (RGBX, XBGR, etc.), accelerated Huffman encoding/decoding, and various bug fixes. The goal was to produce a fully open-source codec that could replace the partially closed-source TurboJPEG/IPP codec used by VirtualGL and TurboVNC. libjpeg-turbo generally achieves 80-120% of the performance of TurboJPEG/IPP. It is faster in some areas but slower in others.

In early 2010, libjpeg-turbo spun off into its own independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

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Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG/OSS wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

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```
*****
**      Using libjpeg-turbo
*****
```

libjpeg-turbo includes two APIs that can be used to compress and decompress
JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing
and decompressing JPEG images in memory. It also provides some functionality
that would not be straightforward to achieve using the underlying libjpeg

API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

=====

Replacing libjpeg at Run Time

=====

If a Unix application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH. For instance:

[Using libjpeg]

```
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.392s
user   0m0.074s
sys    0m0.020s
```

[Using libjpeg-turbo]

```
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.109s
user   0m0.029s
sys    0m0.010s
```

NOTE: {lib} can be lib, lib32, lib64, or lib/64, depending on the O/S and architecture.

System administrators can also replace the libjpeg sym links in /usr/{lib} with

links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}. This will effectively accelerate every application that uses the libjpeg dynamic library on the system.

The libjpeg-turbo SDK for Visual C++ installs the libjpeg-turbo DLL (jpeg62.dll, jpeg7.dll, or jpeg8.dll, depending on whether it was built with libjpeg v6b, v7, or v8 emulation) into c:\libjpeg-turbo[64]\bin, and the PATH environment variable can be modified such that this directory is searched before any others that might contain a libjpeg DLL. However, if a libjpeg DLL exists in an application's install directory, then Windows will load this DLL first whenever the application is launched. Thus, if an application ships with jpeg62.dll, jpeg7.dll, or jpeg8.dll, then back up the application's version of this DLL and copy c:\libjpeg-turbo[64]\bin\jpeg*.dll into the application's install directory to accelerate it.

The version of the libjpeg-turbo DLL distributed in the libjpeg-turbo SDK for Visual C++ requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

NOTE: Features of libjpeg that require passing a C run-time structure, such as a file handle, from an application to libjpeg will probably not work with the version of the libjpeg-turbo DLL distributed in the libjpeg-turbo SDK for Visual C++, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and jpeg_stdio_src().

Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. If an application uses a shared library version of libjpeg, then it may be possible to replace the application's version of it. This would generally involve copying libjpeg.*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to repoint the dylib to the new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application.

Thus, it is not recommended for most users.

Replacing TurboJPEG/IPP

libjpeg-turbo is a drop-in replacement for the TurboJPEG/IPP SDK used by VirtualGL 2.1.x and TurboVNC 0.6 (and prior.) libjpeg-turbo contains a wrapper library (TurboJPEG/OSS) that emulates the TurboJPEG API using libjpeg-turbo instead of the closed-source Intel Performance Primitives. You can replace the TurboJPEG/IPP package on Linux systems with the libjpeg-turbo package in order to make existing releases of VirtualGL 2.1.x and TurboVNC 0.x use the new codec at run time. Note that the 64-bit libjpeg-turbo packages contain only 64-bit binaries, whereas the TurboJPEG/IPP 64-bit packages contained both 64-bit and 32-bit binaries. Thus, to replace a TurboJPEG/IPP 64-bit package, install both the 64-bit and 32-bit versions of libjpeg-turbo.

You can also build the VirtualGL 2.1.x and TurboVNC 0.6 source code with the libjpeg-turbo SDK instead of TurboJPEG/IPP. It should work identically. libjpeg-turbo also includes static library versions of TurboJPEG/OSS, which are used to build VirtualGL 2.2 and TurboVNC 1.0 and later.

Using libjpeg-turbo in Your Own Programs

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Unix systems (including Cygwin), you can build against libjpeg-turbo instead of libjpeg by setting

```
CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}
```

{lib} = lib32 or lib64, depending on whether you are building a 32-bit or a

64-bit application.)

If using MinGW, then set

```
CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib
```

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Linux and Solaris systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate sym links to use libjpeg-turbo at run time. On such systems, you can pass `-R /opt/libjpeg-turbo/{lib}` to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Linux, Solaris, or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

```
-Wl,-Bstatic -ljpeg -Wl,-Bdynamic
```

On OS X, simply add `/opt/libjpeg-turbo/lib/libjpeg.a` to the linker command line (this also works on Linux and Solaris.)

To build Visual C++ applications using libjpeg-turbo, add `c:\¥libjpeg-turbo[64]\¥include` to the system or user INCLUDE environment variable and `c:\¥libjpeg-turbo[64]\¥lib` to the system or user LIB environment variable, and then link against either `jpeg.lib` (to use the DLL version of libjpeg-turbo) or `jpeg-static.lib` (to use the static version of libjpeg-turbo.)

=====

Colorspace Extensions

=====

libjpeg-turbo includes extensions that allow JPEG images to be compressed

directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

```
JCS_EXT_RGB    /* red/green/blue */
JCS_EXT_RGBX   /* red/green/blue/x */
JCS_EXT_BGR    /* blue/green/red */
JCS_EXT_BGRX   /* blue/green/red/x */
JCS_EXT_XBGR   /* x/blue/green/red */
JCS_EXT_XRGB   /* x/red/green/blue */
JCS_EXT_RGBA   /* red/green/blue/alpha */
JCS_EXT_BGRA   /* blue/green/red/alpha */
JCS_EXT_ABGR   /* alpha/blue/green/red */
JCS_EXT_ARGB   /* alpha/red/green/blue */
```

Setting `cinfo.in_color_space` (compression) or `cinfo.out_color_space` (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```
#ifdef JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a version of libjpeg that doesn't support them will result in a "Bogus input colorspace" error.

When using the RGBX, BGRX, XBGR, and XRGB colorspace during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify `JCS_EXT_RGBA`, `JCS_EXT_BGRA`, `JCS_EXT_ABGR`, or `JCS_EXT_ARGB`. When these colorspace constants are used, the X byte is guaranteed to be `0xFF`, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace

extensions at compile time with:

```
#ifdef JCS_ALPHA_EXTENSIONS
```

jcstest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

```
=====
libjpeg v7 and v8 API/ABI support
=====
```

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that are built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) have made the switch that it was desirable to provide support for the libjpeg v7/v8 API/ABI in libjpeg-turbo. Although libjpeg-turbo can now be configured as a drop-in replacement for libjpeg v7 or v8, it should be noted that not all of the features in libjpeg v7 and v8 are supported (see below.)

By passing an argument of `--with-jpeg7` or `--with-jpeg8` to `configure`, or an argument of `-DWITH_JPEG7=1` or `-DWITH_JPEG8=1` to `cmake`, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 API/ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

libjpeg v7 and v8 Features:

Fully supported:

-- cjpeg: Separate quality settings for luminance and chrominance

Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see `rdswitch.c` for an example.)

-- cjpeg: 32-bit BMP support

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Fully supported when using libjpeg v7/v8 emulation:

-- libjpeg: In-memory source and destination managers

Not supported:

-- libjpeg: DCT scaling in compressor

`cinfo.scale_num` and `cinfo.scale_denom` are silently ignored.

There is no technical reason why DCT scaling cannot be supported, but without the SmartScale extension (see below), it would only be able to down-scale using ratios of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9, which is of limited usefulness.

-- libjpeg: SmartScale

`cinfo.block_size` is silently ignored.

SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. It would be difficult to support this feature while retaining backward compatibility with libjpeg v6b.

-- libjpeg: IDCT scaling extensions in decompressor

libjpeg-turbo still supports IDCT scaling with scaling factors of 1/2, 1/4, and 1/8 (same as libjpeg v6b.)

-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.

** Performance pitfalls

=====

Restart Markers

=====

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

=====

Fast Integer Forward DCT at High Quality Levels

=====

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
'src/lib/gssapi', including the following files:

- lib/gssapi/generic/gssapi_err_generic.et
- lib/gssapi/mechglue/g_accept_sec_context.c
- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
- lib/gssapi/mechglue/g_delete_sec_context.c
- lib/gssapi/mechglue/g_dsp_name.c
- lib/gssapi/mechglue/g_dsp_status.c
- lib/gssapi/mechglue/g_dup_name.c
- lib/gssapi/mechglue/g_exp_sec_context.c
- lib/gssapi/mechglue/g_export_name.c
- lib/gssapi/mechglue/g_glue.c
- lib/gssapi/mechglue/g_imp_name.c
- lib/gssapi/mechglue/g_imp_sec_context.c
- lib/gssapi/mechglue/g_init_sec_context.c
- lib/gssapi/mechglue/g_initialize.c
- lib/gssapi/mechglue/g_inquire_context.c
- lib/gssapi/mechglue/g_inquire_cred.c
- lib/gssapi/mechglue/g_inquire_names.c
- lib/gssapi/mechglue/g_process_context.c
- lib/gssapi/mechglue/g_rel_buffer.c
- lib/gssapi/mechglue/g_rel_cred.c
- lib/gssapi/mechglue/g_rel_name.c
- lib/gssapi/mechglue/g_rel_oid_set.c
- lib/gssapi/mechglue/g_seal.c
- lib/gssapi/mechglue/g_sign.c
- lib/gssapi/mechglue/g_store_cred.c
- lib/gssapi/mechglue/g_unseal.c
- lib/gssapi/mechglue/g_userok.c
- lib/gssapi/mechglue/g_utils.c
- lib/gssapi/mechglue/g_verify.c

lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprof_hdr.h
kadmin/server/iprof_svc.c
lib/kdb/iprof.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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411toppm:	(B) 2001	Steve Allen <sla@alumni.caltech.edu>
anytopnm:	(A) 1991	Jef Poskanzer
asciitopgm:	(A) 1989	Wilson H. Bent, Jr
atktopbm:	(A) 1991	Bill Janssen
bioradtopgm:	(A) 1993	Oliver Treppe <oliver@fysik4.kth.se>
bmptoppm:	(A) 1992	David W. Sanderson
brushtopbm:	(A) 1988	Jef Poskanzer
cmuwmtopbm:	(A) 1989	Jef Poskanzer
eyuvtoppm:	(B) 1995	The Regents of the University of California
fiascotopnm:	(C) 1994-2000	Ullrich Hafner <hafner@bigfoot.de>
fitstopnm:	(A) 1989	Jef Poskanzer
fstopgm:	(A) 1989	Jef Poskanzer
g3topbm:	(A) 1989	Paul Haeberli <paul@manray.sgi.com>
gemtopbm:	(A) 1988	Diomidis D. Spinellis
gemtopnm:	(A) 1988	Diomidis D. Spinellis
giftopnm:	(A) 1990-1993	David Koblas <koblas@netcom.com>
gouldtoppm:	(A) 1990	Stephen P. Lesniewski
hipstopgm:	(A) 1989	Jef Poskanzer
icontopbm:	(A) 1988	Jef Poskanzer
ilbmtoppm:	(A) 1989	Jef Poskanzer
imgtoppm:	(A) 1989	Jef Poskanzer
jbigtopnm:	(C) 2000	Markus Kuhn <mkuhn@acm.org>
jpegtopnm:	(D) 1991-2000	Thomas G. Lane, Bryan Henderson
leaftoppm:	(A) 1994	Bill O'Donnell

lispmtopgm:	(A) 1988	Jef Poskanzer, Jamie Zawinski
macptopbm:	(A) 1988	Jef Poskanzer
mdatopbm:	(C) 1999	John Elliott <jce@seasip.demon.co.uk>
mgrtopbm:	(A) 1989	Jef Poskanzer
mtvtoppm:	(A) 1989	Jef Poskanzer
neotoppm:	(D) 2001	Teemu Hukkanen <tjhukkan@iki.fi>
palmtopnm:	(A) 1995-2000	Ian Goldberg, Bill Janssen
pamcut:	(A) 1989	Jef Poskanzer
pamfile:	(A) 1991	Jef Poskanzer
pamoil:	(A) 1990	Wilson Bent <whb@hoh-2.att.com>
pbmclean:	(A) 1989-1990	Jef Poskanzer, Angus Duggan
pbmfile:	(A) 1988-1991	Jef Poskanzer
pbmmake:	(A) 1988	Jef Poskanzer
pbmmask:	(A) 1989-1991	Jef Poskanzer
pbmpage:	(C) 1998	Tim Norman
pbmyscale:	(A) 1989-1990	Jef Poskanzer, Angus Duggan
pbmreduce:	(A) 1989	Jef Poskanzer
pbmtext:	(A) 1991	Jef Poskanzer
pbmto10x:	(A) 1990-1994	Ken Yap
pbmtoascii:	(A) 1988-1992	Jef Poskanzer
pbmtoatk:	(A) 1991	Bill Janssen
pbmtoabnbg:	(A) 1989	Mike Parker
pbmtoemuwm:	(A) 1989	Jef Poskanzer
pbmtoepsi:	(A) 1988	Jef Poskanzer
pbmtoepson:	(A) 1990	Jef Poskanzer, John Tiller <tiller@galois.msfc.nasa.gov>
pbmto3:	(A) 1989	Paul Haeberli <paul@manray.sgi.com>
pbmtoem:	(A) 1988	Jef Poskanzer, David Beckemeyer
pbmto:	(A) 1988-1989	Jef Poskanzer, Michael Haberler, Bo Thide'
pbmtoicon:	(A) 1988	Jef Poskanzer
pbmtoij:	(A) 1988	Jef Poskanzer, Michael Haberler
pbmtoacp:	(A) 1988	Douwe vand der Schaaf
pbmtoxda:	(C) 1999	John Elliott <jce@seasip.demon.co.uk>
pbmtoogr:	(A) 1989	Jef Poskanzer
pbmtonokia:	(A) 2001	OMS Open Media System GmbH, Tim R<FC>hsen <tim.ruehsen@openmediasystem.de>
pbmtopgm:	(A) 1989-1990	Jef Poskanzer, Angus Duggan

pbmtopi3:	(A) 1988	David Beckemeyer and Jef Poskanzer
pbmtoplot:	(A) 1990	Arthur David Olson
pbmtoppa:	(C) 1998	Tim Norman
pbmtopsg3:	(C) 2001	Kristof Koehler <kristof@fachschaft.physik.uni-karlsruhe.de>
pbmtoptx:	(A) 1988	Jef Poskanzer
pbmtowbmp:	(A) 1999	Terje Sannum <terje@looplab.com>
pbmtox10bm:	(A) 1988	Jef Poskanzer
pbmtoxbm:	(A) 1988	Jef Poskanzer
pbmtoybm:	(A) 1991	Jamie Zawinski and Jef Poskanzer
pbmtozinc:	(A) 1988	James Darrell McCauley <jdm5548@diamond.tamu.edu>, Jef Poskanzer
pbmupc:	(A) 1988	Jef Poskanzer
pcxtoppm:	(A) 1990	Michael Davidson
pgmbentley:	(A) 1990	Wilson Bent <whb@hoh-2.att.com>
pgmcrater:	(H) 1989	John Walker <kelvin@autodesk.com>
pgmedge:	(A) 1989	Jef Poskanzer
pgmenhance:	(A) 1989-1991	Jef Poskanzer
pgmhist:	(A) 1989	Jef Poskanzer
pgmkernel:	(A) 1992	Alberto Accomazzi, Smithsonian Astrophysical Observatory
pgmnoise:	(A) 1993	Frank Neumann
pgmnorm:	(A) 1989-1991	Jef Poskanzer
pgmramp:	(A) 1989	Jef Poskanzer
pgmslice:	(C) 2000	Jos Dingjan <jos@tuatha.org>
pgmtexture:	(A) 1991	Texas Agricultural Experiment Station, James Darrell McCauley
pgmtofs:	(A) 1991	Jef Poskanzer
pgmtolisp:	(A) 1991	Jamie Zawinski and Jef Poskanzer
pgmtopbm:	(A) 1989	Jef Poskanzer
pgmtoppm:	(A) 1991	Jef Poskanzer
piltoppm:	(A) 1991	Steve Belczyk <seb3@gte.com> and Jef Poskanzer
pi3topbm:	(A) 1988	David Beckemeyer and Diomidis D. Spinellis
picttoppm:	(A) 1989-1993	George Phillips <phillips@cs.ubc.ca>
pjtoppm:	(A) 1990	Christos Zoulas <christos@ee.cornell.edu>
pngtopnm:	(A) 1995-1998	Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaik <willem@schaik.com>
pnmalias:	(A) 1992	Alberto Accomazzi, Smithsonian Astrophysical Observatory
pnmarith:	(A) 1989-1991	Jef Poskanzer

pnmcat:	(A)	1989-1991	Jef Poskanzer
pnmcomp:	(A)	1992	David Koblas
pnmconvol:	(A)	1989-1995	Jef Poskanzer, Mike Burns <burns@chem.psu.edu>
pnmcrop:	(A)	1988	Jef Poskanzer
pnmcut:	(A)	1989	Jef Poskanzer
pnmdepth:	(A)	1989-1991	Jef Poskanzer
pnmenlarge:	(A)	1989	Jef Poskanzer
pnmfile:	(A)	1991	Jef Poskanzer
pnmflip:	(A)	1989	Jef Poskanzer
pnmgamma:	(A)	1991	Jef Poskanzer and Bill Davidson
pnmhisteq:	(H)	1995	John Walker <kelvin@fourmalib.ch>
pnmhistmap:	(A)	1993	Wilson H. Bent, Jr <whb@usc.edu>
pnmindex:	(A)	1991	Jef Poskanzer
pnminterp:	(C)	1998-2000	Russell Marks <russell.marks@ntlworld.com>
pnminterp-gen:	(C)	1998-2000	Russell Marks <russell.marks@ntlworld.com>
pnminvert:	(A)	1989	Jef Poskanzer
pnmmargin:	(A)	1991	Jef Poskanzer
pnmontage:	(A)	2000	Ben Olmstead
pnmnlfilt:	(A)	1993	Graeme W. Gill <graeme@labtam.oz.au>
pnmnoraw:	(A)	1991	Jef Poskanzer
pmpad:	(A)	1989-1990	Jef Poskanzer, Angus Duggan
pmpaste:	(A)	1989	Jef Poskanzer
pmpspsnr:	(C)	1994-2000	Ullrich Hafner <hafner@bigfoot.de>
pnmrotate:	(A)	1989-1991	Jef Poskanzer
pnmyscale:	(A)	1989-1991	Jef Poskanzer
pnmyscalefixed:	(A)	1989-1991	Jef Poskanzer
pnmshshear:	(A)	1989-1991	Jef Poskanzer
pnmsmooth:	(A)	1984	Mike Burns <burns@chem.psu.edu>
pnmssplit:	(?)	2000	Bryan Henderson <bryanh@giraffe-data.com>
pnmsttile:	(A)	1989	Jef Poskanzer
pnmsttoddif:	(A)	1992	Digital Equipment Corporation, Burkhard Neidecker-Lutz
pnmsttofiasco:	(C)	1994-2000	Ullrich Hafner <hafner@bigfoot.de>
pnmsttofits:	(C)	1989	Wilson H. Bent <whb@hoh-2.att.com>
pnmsttojbig:	(C)	2000	Markus Kuhn <mkuhn@acm.org>
pnmsttojpeg:	(D)	1991-2001	Thomas G. Lane, Bryan Henderson
pnmsttopalm:	(A)	1995-2000	Ian Goldberg, Bill Janssen

pnmtoplainpnm: (A) 1991 Jef Poskanzer
 pnmtopng: (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaik
 <willem@schaik.com>
 pnmtops: (A) 1989 Jef Poskanzer
 pnmtorast: (A) 1989-1991 Jef Poskanzer
 pnmtorle: (E) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
 pnmtosgi: (A) 1994 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
 pnmtosir: (A) 1991 Marvin Landis
 pnmtotiff: (A) 1990 Sun Microsystems, Inc, Jef Poskanzer
 pnmtotiffcmyk: (C) 1999 Andrew Cooke (Jara Software)
 <jara@andrewcooke.free-online.co.uk>
 pnmtowd: (A) 1989-1991 Jef Poskanzer
 ppm3d: (A) 1989 Jef Poskanzer
 ppmbrighten: (A) 1989-1990 Jef Poskanzer, Brian Moffet
 ppmchange: (A) 1991 Wilson H. Bent, Jr
 ppmcie: (H) 1995 John Walker <kelvin@fourmilab.ch>
 ppmcolormask: (?) 2000 Bryan Henderson <bryanh@giraffe-data.com>
 ppmdim: (A) 1993 Frank Neumann
 ppmdist: (A) 1993 Dan Stromberg
 ppmdither: (A) 1991 Christos Zoulas
 ppmfade: (?) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
 ppmflash: (A) 1993 Frank Neumann
 ppmforge: (H) 1989 John Walker <kelvin@autodesk.com>
 ppmhist: (A) 1989 Jef Poskanzer
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 ppmmake: (A) 1989 Jef Poskanzer
 ppmmix: (A) 1993 Frank Neumann
 ppmnorm: (A) 1989-1991 Jef Poskanzer, Wilson H. Bent, Jr <whb@usc.edu>
 ppmntsc: (E) 1993 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
 ppmpat: (A) 1989-1991 Jef Poskanzer
 ppmquant: (A) 1989-1991 Jef Poskanzer
 ppmquantall: (A) 1991 Jef Poskanzer
 ppmqvga: (F) 1991-1992 Bill Davidsen, Lyle Rains <lrains@netcom.com>
 ppmrainbow: (A) 2001 Arjen Bax, Bryan Henderson
 ppmrelief: (A) 1990 Wilson H. Bent, Jr
 ppmshadow: (G) 1997 John Walker <kelvin@fourmilab.ch>

ppmshift:	(A) 1993	Frank Neumann
ppmspread:	(A) 1993	Frank Neumann
ppmtoacad:	(H) 1991	John Walker <kelvin@autodesk.com>
ppmtobmp:	(A) 1992	David W. Sanderson
ppmtoeyuv:	(B) 1995	The Regents of the University of California
ppmtoicr:	(A) 1990	Kanthan Pillay <svpillay@Princeton.EDU>
ppmtoilbm:	(A) 1989	Jef Poskanzer
ppmtoleaf:	(A) 1994	Bill O'Donnell
ppmtolj:	(A) 2000	Jonathan Melvin <jonathan.melvin@heywood.co.uk>
ppmtomap:	(A) 1989	Jef Poskanzer
ppmtomitsu:	(A) 1992-1993	S.Petra Zeidler
ppmtompeg:	(B) 1995	The Regents of the University of California
ppmtoneo:	(D) 2001	Teemu Hukkanen <tjhukkan@iki.fi>
ppmtopcx:	(B) 1994	Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
ppmtopgm:	(A) 1989	Jef Poskanzer
ppmtopil:	(A) 1991	Jef Poskanzer and Steve Belczyk
ppmtopict:	(A) 1990	Ken Yap <ken@cs.rochester.edu>
ppmtopj:	(A) 1990	Christos Zoulas <christos@ee.cornell.edu>
ppmtopuzz:	(A) 1991	Jef Poskanzer
ppmtorgb3:	(A) 1991	Jef Poskanzer
ppmtosixel:	(A) 1991	Rick Vinci
ppmtotga:	(A) 1989-1991	Mark Shand and Jef Poskanzer
ppmtouil:	(A) 1990	Mark W. Snitily, Jef Poskanzer
ppmtowinicon:	(A) 2000	Lee Benfield <lee@recoil.org>
ppmtoxpm:	(A) 1990	Mark W. Snitily
ppmtoyuv:	(A) 1987-1991	Abekas Video Systems Inc, DHD PostImage Inc
ppmtoyuvsplit:	(A) 1993	Andre Beck <Andre_Beck@IRS.Inf.TU-Dresden.de>
ppmtv:	(A) 1993	Frank Neumann
psidtopgm:	(A) 1989	Jef Poskanzer
pstopnm:	(I) 1992	Smithsonian Astrophysical Observatory, Alberto Accomazzi
qrtpppm:	(A) 1989	Jef Poskanzer
rasttopnm:	(A) 1989-1991	Jef Poskanzer
rawtopgm:	(A) 1989	Jef Poskanzer
rawtoppm:	(A) 1991	Jef Poskanzer
rgb3toppm:	(A) 1991	Jef Poskanzer
rletopnm:	(E) 1994	Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>

sbigtopgm:	(A) 1998	John Walker
sgitopnm:	(A) 1994	Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
sirtopnm:	(A) 1991	Marvin Landis
sldtoppm:	(H) 1991	John Walker <kelvin@autodesk.com>
spctoppm:	(A) 1991	Jef Poskanzer and Steve Belczyk
sputoppm:	(A) 1991	Jef Poskanzer and Steve Belczyk
tgatoppm:	(A) 1989	Jef Poskanzer
tifftopnm:	(A) 1990	Sun Microsystems, Inc, Jef Poskanzer
thinkjettopbm:	(A) 2001	W. Eric Norum <eric.norum@usask.ca>
wbmptopbm:	(A) 1999	Terje Sannum <terje@looplab.com>
winicontoppm:	(A) 2000	Lee Benfield <lee@recoil.org>
xbmtopbm:	(A) 1988	Jef Poskanzer
ximtoppm:	(A) 1991	Jef Poskanzer
xpmtoppm:	(A) 1991	Jef Poskanzer
xvminitoppm:	(A) 1993	Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
xwdtopnm:	(A) 1989-1991	Jef Poskanzer
ybmptopbm:	(A) 1988	Jamie Zawinski and Jef Poskanzer
yuvsplittoppm:	(A) 1993	Marcel Wijkstra <>wijkstra@fwi.uva.nl>
yuvtoppm:	(A) 1987-1991	Jef Poskanzer, Abekas Video Systems Inc., DHD PostImage Inc.
zeisstopnm:	(A) 1993	Oliver Trepte <oliver@fysik4.kth.se>

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2004. In Japan, it's June 20, 2004 and in Canada, July 7, 2004.
IBM's U.S. patent expires August 11, 2006.

Neither company has ever enforced the patent against trivial users of it. <http://news.cnet.com/news/0-1005-200-1713278.html> is an article dated April 18, 2000 on the issue.

http://www.unisys.com/about__unisys/lzw/ is Unisys' view of the matter. For information from another perspective, see <http://burnallgifs.org>.

The following Netpbm components may be restricted by these patents:
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A good substitute for GIF if the patents are a problem is PNG (see [pngtopnm](#), [pnmtopng](#)), which was developed with a primary purpose of not using any patented technology.

You can also use the `-nolzw` option on [ppmtogif](#) to avoid using the LZW patent. The images so generated are larger than traditional LZW-compressed GIFs, but any GIF decoder can decode them just the same.

I repeat: The Unisys U.S. patent has expired. It is not an issue for any future use of Netpbm.

The [Pnmtojpeg](#) and possibly [Jpegtopnm](#) programs in some cases may use the arithmetic coding patents owned by IBM, AT&T, and Mitsubishi. There is difference of opinion on whether they do.

Forgent owns a patent it believes covers JPEG compression. This patent was virtually unknown before July 2002, when Forgent began to enforce it. It has successfully enforced it against two companies (Sony and an unnamed Japanese digital camera maker), but without court ruling. This patent, U.S. Patent No. 4,698,672, expires in 2006.

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The next best alternative to JPEG is probably PNG and maybe JBIG for bilevel (black and white) images.

<http://burnalljpegs.org> contains information on this issue.

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Driver: ymfpci -- Yamaha YMF724/740/744/754 audio devices

File: yamaha/ds1_ctrl.fw

File: yamaha/ds1_dsp.fw

File: yamaha/ds1e_ctrl.fw

Licence: Unknown

Found alsa-firmware package in hex form, with the following comment:

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Driver: SCSI_ADVANSYS - AdvanSys SCSI

File: advansys/mcode.bin

File: advansys/3550.bin

File: advansys/38C0800.bin

File: advansys/38C1600.bin

Licence: BSD, no source available.

Found in hex form in kernel source.

Driver: SCSI_QLOGIC_1280 - Qlogic QLA 1240/1x80/1x160 SCSI support

File: qllogic/1040.bin

File: qllogic/1280.bin

File: qllogic/12160.bin

Licence: Allegedly GPLv2+, but no source visible. Marked:

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QLogic ISP1280/ device driver for Linux 2.2.x and 2.4.x

Copyright (C) 2001 Qlogic Corporation (www.qlogic.com)

Driver: smctr -- SMC ISA/MCA Token Ring adapter

File: tr_smctr.bin

Info: MCT.BIN v6.3C1 03/01/95

Original licence info:

- * This firmware is licensed to you strictly for use in conjunction
- * with the use of SMC TokenRing adapters. There is no warranty
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Driver: kaweth -- USB KLSI KL5USB101-based Ethernet device

File: kaweth/new_code.bin
File: kaweth/new_code_fix.bin
File: kaweth/trigger_code.bin
File: kaweth/trigger_code_fix.bin

Licence: Unknown

Found in hex form in the kernel source.

Driver: ttusb-budget -- Technotrend/Hauppauge Nova-USB devices

File: ttusb-budget/dspbootcode.bin

Licence: Unknown

Found in hex form in the kernel source.

Driver: keyspan -- USB Keyspan USA-xxx serial device

File: keyspan/mpr.fw
File: keyspan/usa18x.fw
File: keyspan/usa19.fw
File: keyspan/usa19qi.fw
File: keyspan/usa19qw.fw
File: keyspan/usa19w.fw
File: keyspan/usa28.fw
File: keyspan/usa28xa.fw
File: keyspan/usa28xb.fw
File: keyspan/usa28x.fw
File: keyspan/usa49w.fw
File: keyspan/usa49wlc.fw

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Driver: keyspan_pda -- USB Keyspan PDA single-port serial device

File: keyspan_pda/keyspan_pda.fw

Source: keyspan_pda/keyspan_pda.S

File: keyspan_pda/xircom_pgs.fw

Source: keyspan_pda/xircom_pgs.S

Licence: GPLv2+

Compiled from original 8051 source into Intel HEX, used in our binary ihex form.

Driver: emi26 -- EMI 2|6 USB Audio interface

File: emi26/bitstream.fw

Info: VERSION=1.1.1.131 DATE=2001dec06

File: emi26/firmware.fw

Info: VERSION=1.0.2.916 DATE=12.02.2002

File: emi26/loader.fw

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*/

Driver: emi62 -- EMI 6 | 2m USB Audio interface

File: emi62/bitstream.fw

Info: VERSION=1.0.0.191 DATE= 2002oct28

File: emi62/loader.fw

Source: EMILOAD.HEX

Info: VERSION=1.0.2.002 DATE=10.01.2002

File: emi62/midi.fw

Source: EMI62MFW.HEX

Info: VERSION=1.04.062 DATE=16.10.2002

File: emi62/spdif.fw

Source: EMI62SFW.HEX

Info: VERSION=1.04.062 DATE=16.10.2002

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information: None

Driver: ti_usb_3410_5052 -- USB TI 3410/5052 serial device

File: ti_3410.fw

Info: firmware 9/10/04 FW3410_Special_StartWdogOnStartPort

File: ti_5052.fw

Info: firmware 9/18/04

Licence: Allegedly GPLv2+, but no source visible. Marked:

Copyright (C) 2004 Texas Instruments

Found in hex form in kernel source.

Driver: ti_usb_3410_5052 -- Multi-Tech USB cell modems

File: mts_cdma.fw

File: mts_gsm.fw

File: mts_edge.fw

Licence: "all firmware components are redistributable in binary form"
per support@multitech.com
Copyright (C) 2005 Multi-Tech Systems, Inc.

Found in hex form in ftp://ftp.multitech.com/wireless/wireless_linux.zip

Driver: whiteheat -- USB ConnectTech WhiteHEAT serial device

File: whiteheat.fw

Version: 4.06

File: whiteheat_loader.fw

File: whiteheat_loader_debug.fw

Licence: Allegedly GPLv2, but no source visible. Marked:
Copyright (C) 2000-2002 ConnectTech Inc

Debug loader claims the following behaviour:

Port 1 LED flashes when the vend_ax program is running

Port 2 LED flashes when any SETUP command arrives

Port 3 LED flashes when any valid VENDOR request occurs

Port 4 LED flashes when the EXTERNAL RAM DOWNLOAD request occurs

Converted from Intel HEX files, used in our binary representation of ihex.

Driver: ip2 -- Computone IntelliPort Plus serial device

File: intelliport2.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: CPiA2 -- cameras based on Vision's CPiA2

File: cpia2/stv0672_vp4.bin

Licence: Allegedly GPLv2+, but no source visible. Marked:

Copyright (C) 2001 STMicroelectronics, Inc.

Contact: steve.miller@st.com

Description: This file contains patch data for the CPiA2 (stv0672) VP4.

Found in hex form in kernel source.

Driver: DABUSB -- Digital Audio Broadcasting (DAB) Receiver for USB and Linux

File: dabusb/firmware.fw

File: dabusb/bitstream.bin

Licence: Distributable

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Driver: USB_VICAM -- USB 3com HomeConnect (aka vicam)

File: vicam/firmware.fw

Licence: Unknown

Found in hex form in kernel source.

Driver: USB_SERIAL_EDGEPORT - USB Inside Out Edgeport Serial Driver

File: edgeport/boot.fw

File: edgeport/boot2.fw

File: edgeport/down.fw

File: edgeport/down2.fw

Licence: Allegedly GPLv2+, but no source visible. Marked:

/******

/* Edgeport/4 Binary Image

/* Generated by HEX2C v1.06

/* Copyright (C) 1998 Inside Out Networks, All rights reserved.

/******

Found in hex form in kernel source.

Driver: USB_SERIAL_EDGEPORT_TI - USB Inside Out Edgeport Serial Driver
(TI Devices)

File: edgeport/down3.bin

Licence:

```
/******  
/* Edgeport Binary Image (for TI based products)  
/* Generated by TIBin2C v2.00 (watchport)  
/* Copyright (C) 2001 Inside Out Networks, All rights reserved.  
/******
```

Found in hex form in kernel source.

Driver: ATARI_DSP56K - Atari DSP56k support

File: dsp56k/bootstrap.bin

Source: dsp56k/bootstrap.asm

Licence: GPLv2 or later

DSP56001 assembler, possibly buildable with a56 from
<http://www.zdomain.com/a56.html>

Driver: SND_SB16_CSP - Sound Blaster 16/AWE CSP support

File: sb16/mulaw_main.csp

File: sb16/alaw_main.csp

File: sb16/ima_adpcm_init.csp

File: sb16/ima_adpcm_playback.csp

File: sb16/ima_adpcm_capture.csp

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/*

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- * Microcode files for SB16 Advanced Signal Processor

*/

Found in hex form in kernel source.

Driver: CASSINI - Sun Cassini

File: sun/cassini.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/t3b_psram-1.1.0.bin.ihex

File: cxgb3/t3c_psram-1.1.0.bin.ihex

file: cxgb3/t3fw-7.4.0.bin.ihex

License: GPLv2 or OpenIB.org BSD license, no source visible

Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/ael2005_opt_edc.bin.ihex

File: cxgb3/ael2005_twx_edc.bin.ihex

File: cxgb3/ael2020_twx_edc.bin.ihex

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Driver: e100 -- Intel PRO/100 Ethernet NIC

File: e100/d101m_ucose.bin

File: e100/d101s_ucose.bin

File: e100/d102e_ucose.bin

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Found in hex form in kernel source.

Driver: acenic -- Alteon AceNIC Gigabit Ethernet card

File: acenic/tg1.bin

File: acenic/tg2.bin

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Found in hex form in kernel source, but source allegedly available at
<http://alteon.shareable.org/>

Driver: tigon3 -- Broadcom Tigon3 based gigabit Ethernet cards

File: tigon/tg3.bin

File: tigon/tg3_tso.bin

File: tigon/tg3_tso5.bin

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Driver: ADAPTEC_STARFIRE - Adaptec Starfire/DuraLAN support

File: adaptec/starfire_rx.bin

File: adaptec/starfire_tx.bin

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Driver: TEHUTI - Tehuti Networks 10G Ethernet

File: tehuti/bdx.bin

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Driver: TYPHOON - 3cr990 series Typhoon

File: 3com/typhoon.bin

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Driver: YAM - YAM driver for AX.25

File: yam/1200.bin

File: yam/9600.bin

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Driver: 3C359 - 3Com 3C359 Token Link Velocity XL adapter

File: 3com/3C359.bin

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/*

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/* 3c359_microcode.mac: 3Com 3C359 Tokenring microcode.

*

* Notes:

* - Loaded from xl_init upon adapter initialization.

*

* Available from 3Com as part of their standard 3C359 driver.

*/

Found in hex form in kernel source.

Driver: PCMCIA_PCNET - NE2000 compatible PCMCIA adapter

File: cis/LA-PCM.cis

cis/PCMLM28.cis

cis/DP83903.cis

cis/NE2K.cis

cis/tamarack.cis

cis/PE-200.cis

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Driver: PCMCIA_3C589 - 3Com PCMCIA adapter

File: cis/3CXEM556.cis

Licence: GPL

Originally developed by the pcmcia-cs project

Driver: PCMCIA_3C574 - 3Com PCMCIA adapter

File: cis/3CCFEM556.cis

Licence: GPL

Originally developed by the pcmcia-cs project

Driver: SERIAL_8250_CS - Serial PCMCIA adapter

File: cis/MT5634ZLX.cis

 cis/RS-COM-2P.cis

 cis/COMpad2.cis

 cis/COMpad4.cis

 cis/SW_555_SER.cis

 cis/SW_7xx_SER.cis

 cis/SW_8xx_SER.cis

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Driver: PCMCIA_SMC91C92 - SMC 91Cxx PCMCIA

File: ositech/Xilinx7OD.bin

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Driver: SCSI_QLOGICPTI - PTI Qlogic, ISP Driver

File: qllogic/isp1000.bin

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Driver: MYRI_SBUS - MyriCOM Gigabit Ethernet

File: myricom/lanai.bin

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Driver: bnx2x: Broadcom Everest

File: bnx2x/bnx2x-e1-6.2.9.0.fw

File: bnx2x/bnx2x-e1h-6.2.9.0.fw

File: bnx2x/bnx2x-e2-6.2.9.0.fw

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Driver: BNx2 - Broadcom NetXtremeII

File: bnx2/bnx2-mips-06-6.2.1.fw

File: bnx2/bnx2-rv2p-06-6.0.15.fw

File: bnx2/bnx2-mips-09-6.2.1a.fw

File: bnx2/bnx2-rv2p-09-6.0.17.fw

File: bnx2/bnx2-rv2p-09ax-6.0.17.fw

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Driver: DVB AV7110 -- AV7110 cards

File: av7110/bootcode.bin

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ARM assembly source code available at <http://www.linuxtv.org/downloads/firmware/Boot.S>

Driver: wavefront - ISA WaveFront sound card

File: yamaha/yss225_registers.bin

Licence: Allegedly GPLv2+, but no source visible.

Found in hex form in kernel source, with the following comment:

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Driver: mga - Matrox G200/G400/G550

File: matrox/g200_warp.fw

File: matrox/g400_warp.fw

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Driver: r128 - ATI Rage 128

File: r128/r128_cce.bin

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Driver: radeon - ATI Radeon

File: radeon/R100_cp.bin

File: radeon/R200_cp.bin

File: radeon/R300_cp.bin

File: radeon/R420_cp.bin

File: radeon/RS600_cp.bin

File: radeon/RS690_cp.bin

File: radeon/R520_cp.bin

File: radeon/R600_pfp.bin
File: radeon/R600_me.bin
File: radeon/RV610_pfp.bin
File: radeon/RV610_me.bin
File: radeon/RV630_pfp.bin
File: radeon/RV630_me.bin
File: radeon/RV620_pfp.bin
File: radeon/RV620_me.bin
File: radeon/RV635_pfp.bin
File: radeon/RV635_me.bin
File: radeon/RV670_pfp.bin
File: radeon/RV670_me.bin
File: radeon/RS780_pfp.bin
File: radeon/RS780_me.bin
File: radeon/RV770_pfp.bin
File: radeon/RV770_me.bin
File: radeon/RV730_pfp.bin
File: radeon/RV730_me.bin
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Driver: ib_qib - QLogic Infiniband

File: qlogic/sd7220.fw

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Driver: netxen_nic - NetXen Multi port (1/10) Gigabit Ethernet NIC

File: phanfw-4.0.588.bin

Info: v4.0.588

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Driver: r8169 - RealTek 8169/8168/8101 ethernet driver.

File: rtl_nic/rtl8168d-1.fw

File: rtl_nic/rtl8168d-2.fw

File: rtl_nic/rtl8105e-1.fw

File: rtl_nic/rtl8168e-1.fw

File: rtl_nic/rtl8168e-2.fw

File: rtl_nic/rtl8168e-3.fw

Version: 0.0.4

File: rtl_nic/rtl8168f-1.fw

Version: 0.0.5

File: rtl_nic/rtl8168f-2.fw

Version: 0.0.4

File: rtl_nic/rtl8411-1.fw

Version: 0.0.3

File: rtl_nic/rtl8402-1.fw

Version: 0.0.1

File: rtl_nic/rtl8106e-1.fw

Version: 0.0.1

File: rtl_nic/rtl8168g-1.fw

Version: 0.0.2

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Driver: iwlwifi - Intel Wireless Wifi

File: iwlwifi-6000g2a-6.ucode

Info: v18.168.6.1

File: iwlwifi-6000g2b-6.ucode

Info: v18.168.6.1

File: iwlwifi-135-6.ucode

Info: v18.168.6.1

File: iwlwifi-105-6.ucode

Info: v18.168.6.1

File: iwlwifi-2030-6.ucode

Info: v18.168.6.1

File: iwlwifi-2000-6.ucode

Info: v18.168.6.1

File: iwlwifi-7260-7.ucode

Version: 22.1.7.0

File: iwlwifi-3160-7.ucode

Version: 22.1.7.0

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Also available from <http://intellinuxwireless.org/?n=Downloads>

Driver: myri10ge - Myri10GE 10GbE NIC driver

File: myri10ge_eth_z8e.dat

File: myri10ge_ethp_z8e.dat
File: myri10ge_rss_eth_z8e.dat
File: myri10ge_rss_ethp_z8e.dat
Info: v1.4.52

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Driver: rt2800pci - Ralink RT2860, RT2890, RT3090, RT5390 wireless MACs

File: rt2860.bin

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Binary file supplied by Shiang Tu <shiang_tu@ralinktech.com>. Firmware Version 34

Driver: rt2800usb - Ralink RT2870, RT3070, RT3071, RT3072, RT5370 wireless MACs

File: rt2870.bin

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Binary file supplied by Shiang Tu <shiang_tu@ralinktech.com>. Firmware Version 29

Driver: brcmsmac - Broadcom 802.11n softmac wireless LAN driver.

File: brcm/bcm43xx-0.fw
File: brcm/bcm43xx_hdr-0.fw
Version: 610.812

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Driver: carl9170 -- Atheros AR9170 802.11 draft-n USB driver

File: carl9170-1.fw

Version: 1.9.6

Source: carl9170fw/

Downloaded from <http://linuxwireless.org/en/users/Drivers/carl9170>

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Driver: ath9k_htc - Atheros HTC devices (USB)

File: htc_9271.fw

Version: 1.3

File: htc_7010.fw

Version: 1.3

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