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			GNU Lesser General Public License 2.1	別紙 5
		bzip2	BSD License	別紙 2 5
		tianocore EFI	FAT32 License	別紙 7
			TianoCore Contribution Agreement	別紙 8
			BSD License	別紙 4
			Eclipse License	別紙 9
		zlib	zlib license	別紙 1 0
			Boost License	別紙 8 7
		openssl	OpenSSL License	別紙 6
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		Intel PRO/1000 Linux driver	GNU General Public License version 2	別紙 3
		Intel(R) Gigabit Ethernet Linux driver	GNU General Public License version 2	別紙 3
		Broadcom Tigon3 ethernet driver	GNU General Public License version 2	別紙 3
		ACL	GNU General Public License version 2	別紙 3
		ACL	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
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		Bash	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
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			MIT License	別紙 2 1
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		Cronie	MIT License	別紙 2 8
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			GNU General Public License version 2	別紙 3
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		LUKS(Linux Unified Key Setup)	GNU General Public License version 2	別紙 3
		Cyrus SASL Library	BSD License	別紙 4 7
		DASH	BSD License	別紙 6 6
		Oracle Berkeley DB 4	Sleepycat and BSD	別紙 1 2
		D-Bus	Academic Free License version 2.1	別紙 2 2
			GNU General Public License version 2	別紙 3
		ISC DHCP	ISC License	別紙 1 8
		Diffutils	GNU General Public License version 2	別紙 3
		dmraid-events	GNU General Public License version 2	別紙 3
		Dnsmasq	GNU General Public License version 2	別紙 3
		dosfstools	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		dracut	GNU General Public License version 2	別紙 3
		e2fsprogs	MIT License	別紙 1 6
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			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
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		ethtool	GNU General Public License version 2	別紙 3
		Expat XML Parser	MIT License	別紙 5 9
		file command	BSD License	別紙 1 3
		filesystem	Public Domain	—
		Findutils	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		finger	BSD License	別紙 3 2
		fipscheck	BSD License	別紙 3 5
		ftp	BSD License	別紙 3 2
		Gamin	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		Gawk	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		GCC(GNU Compiler Collection)	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
			GNU General Public License version 2	別紙 3
		GNU dbm	GNU General Public License version 2	別紙 3
		glib2	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		GMP	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
			GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
			GNU LESSER GENERAL PUBLIC LICENSE Version 3	別紙 2 3
		Grep	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		GNU troff	GNU General Public License version 2	別紙 3
			GNU Free Documentation License Version 1.3	別紙 6 5
		grubby	GNU General Public License version 2	別紙 3
		gzip	GNU General Public License version 2	別紙 3
			GNU Free Documentation License Version 1.3	別紙 6 5
		Hardware Abstraction Layer	Academic Free License version 2.1	別紙 2 2
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		hesiod	MIT License	別紙 2 1
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		initscript	GNU General Public License version 2	別紙 3
		iproute	GNU General Public License version 2	別紙 3
			Public Domain	—
		iptables	GNU General Public License version 2	別紙 3
		IP Tables State	zlib license	別紙 6 8
		iputils	BDS License	別紙 3 2
			GNU General Public License version 2	別紙 3
			Rdisc License	別紙 6 4
		iscsi-initiator-utils	GNU General Public License version 2	別紙 3
		JasPer	JasPer License Version 2.0	別紙 1 5
		Linux keyboard tools	GNU General Public License version 2	別紙 3
		KBD	GNU General Public License version 2	別紙 3
		kernel	GNU GENERAL PUBLIC LICENSE	別紙 8 0
			GNU General Public License version 2	
			MIT License	
		keyutils	GNU General Public License version 2	別紙 3
			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		krb5-devel	MIT License	別紙 3 3
		Kerberos	MIT License	別紙 3 3
		Less	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		Linux-native asynchronous I/O	GNU General Public License version 2	別紙 3
		libcap	BSD License	別紙 3 1
		libcap-ng	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		libdaemon	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		Editline Library	BSD License	別紙 4 2
		libffi	MIT License	別紙 8 1
		Libidn	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
			GNU Free Documentation License Version 1.3	別紙 6 5
		libjpeg-turbo	wxWidgets	別紙 2 4

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		libnih	GNU General Public License version 2	別紙 3
		libpcap	BSD License	別紙 4 3
		Portable Network Graphics	libpng License	別紙 6 2
		libselinux	Public Domain	—
		libsepol	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
		libuser	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		libutempter	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		lockdev	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		logrotate	GNU General Public License version 2	別紙 3
		lsof	zlib License	別紙 4 9
		Device-mapper	GNU General Public License version 2	別紙 3
			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		M4	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		mailcap	Public Domain	—
			MIT License	
		Heirloom mailx	BDS License	別紙 8 2
			Mozilla Public License Version 1.1	
		Make	GNU General Public License version 2	別紙 3
		LANANA Linux Device List	GNU General Public License version 2	別紙 3
		mgetty	GNU General Public License version 2	別紙 3
		small Linux console getty	GNU General Public License version 2	別紙 3
		module-init-tools	GNU General Public License version 2	別紙 3
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			Public domain:	別紙 7 2
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			A variation on the BSD license	別紙 7 4
		net-tools	GNU GENERAL PUBLIC LICENSE	別紙 1 7
		newt	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		nkf	—	別紙 2 0
		Netscape Portable Runtime	Mozilla Public License Version 2.0	別紙 6 3
		Network Security Services (NSS)	Mozilla Public License Version 2.0	別紙 6 3
			Mozilla Public License Version 1.1	別紙 6 9
			GNU General Public License version 2	別紙 3
			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		NTP (Network Time Protocol)	MIT License	別紙 2 1
			BDS License	別紙 3 2
			GNU General Public License version 2	別紙 3
		ntpdate	MIT License	別紙 2 1
			BDS License	別紙 3 2
			GNU General Public License version 2	別紙 3
		numactl	GNU General Public License version 2	別紙 3
			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		OpenLDAP	OpenLDAP Public License Version 2.8	別紙 3 7
		OpenSSH	BSD License	別紙 4 6
		ORBit2	GNU General Public License version 2	別紙 3
			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		Pluggable Authentication Modules	BSD License	別紙 3 4
		passwd	BSD License	別紙 2 7
		PAX	BSD License	別紙 7 5
		PCI Utilities	GNU General Public License version 2	別紙 3
		Perl Compatible Regular Expressions	BSD License	別紙 4 0
		perl-String-CRC32	Public Domain	—
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		polkit (PolicyKit)	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		popt	MIT License	別紙 3 9
		ppp (Paul's PPP Package)	BSD License	別紙 8 3
			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
			GNU General Public License version 2	別紙 3
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		procmail	GNU General Public License version 2	別紙 3
			Artistic License	別紙 7 6
		Procps	GNU General Public License version 2	別紙 3
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		psacct	GNU General Public License version 2	別紙 3
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		rdate	GNU General Public License version 2	別紙 3
		Readline	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		redhat-release	GNU General Public License version 2	別紙 3
		rootfiles	Public Domain	—
		rsh	BSD License	別紙 3 2
		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
		sed	GNU General Public License version 2	別紙 3
		sendmail	SENDMAIL LICENSE	別紙 7 7
		ser2net	GNU GENERAL PUBLIC LICENSE	別紙 1 7
		setserial	GNU GENERAL PUBLIC LICENSE	別紙 1 7
		Setup	Public Domain	—
		sgpio	GNU General Public License version 2	別紙 3
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		symlinks	Copyright only	別紙 7 8
		libsfs	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
			GNU General Public License version 2	別紙 3
		sysstat	GNU General Public License version 2	別紙 3
		sysvinit	GNU General Public License version 2	別紙 3
		Tar	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		tcp_wrappers	BSD License	別紙 5 1
		tcpdump	BSD License	別紙 4 8
		telnet	BSD License	別紙 3 2
		Texinfo	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		TFTP	BSD License	別紙 3 2
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		traceroute	GNU General Public License version 2	別紙 3
		Time Zone Database	Public Domain	—
		libudev	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
			GNU General Public License version 2	別紙 3
		UnZip	BSD License	別紙 3 0
		Upstart	GNU General Public License version 2	別紙 3
			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
		USB utilities	GNU General Public License version 2	別紙 3
		usermode	GNU General Public License version 2	別紙 3
		libblkid	GNU General Public License version 2	別紙 3
		libuuid	BSD License	別紙 3 2

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			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
			MIT License	別紙 2 1
			BSD License	別紙 2 6
			Public Domain	—
		vconfig	GNU General Public License version 2	別紙 3
		vim	vim License	別紙 8 5
			BSD License	別紙 3 8
			GNU General Public License version 2	別紙 3
			GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	別紙 5
			Open Publication License	別紙 7 9
		secure and fastest FTP server	GNU General Public License version 2	別紙 2 9
		which	GNU GENERAL PUBLIC LICENSE Version 3	別紙 1 1
		WPA/WPA2/IEEE 802.1X Supplicant	BSD License	別紙 8 6
		xinetd	xinetd	別紙 5 7
		zip	BSD License	別紙 5 0
		Simple HTTPD	THE BEER-WARE LICENSE	別紙 6 1
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Version 2.1, February 1999

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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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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\*\*\*\*\*

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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.)

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## Replacing libjpeg at Run Time

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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.)

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## Colorspace Extensions

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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 colorspaces 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.

---

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## libjpeg v7 and v8 API/ABI support

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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:

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#### 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  
\*\*\*\*\*

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## Restart Markers

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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.

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## Fast Integer Forward DCT at High Quality Levels

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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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-----  
Driver: ambassador -- Madge Ambassador (Collage PCI 155 Server) ATM NIC.

File: firmware/atmsar11.fw

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

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-----  
Driver: korg1212 -- Korg 1212 IO audio device

File: korg/k1212.dsp

Licence: Unknown

Found in alsa-firmware package in hex form; no licensing information.

-----

Driver: maestro3 -- ESS Allegro Maestro3 audio device

File: ess/maestro3\_assp\_kernel.fw

File: ess/maestro3\_assp\_minisrc.fw

Licence: Unknown

Found in alsa-firmware package in hex form with a comment claiming to be GPLv2+, but without source -- and with another comment saying "ESS drops binary dsp code images on our heads, but we don't get to see specs on the dsp."

-----

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

File: yamaha/ds1\_ctrl.fw

File: yamaha/ds1\_dsp.fw

File: yamaha/ds1e\_ctrl.fw

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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: qlogic/1040.bin

File: qlogic/1280.bin

File: qlogic/12160.bin

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

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-----

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

File: tr\_smctr.bin

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

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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

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-----

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  
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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

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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:

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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"  
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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](mailto: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

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/\*\*\*\*\*\*

/\* Edgeport/4 Binary Image

/\* Generated by HEX2C v1.06

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/\*\*\*\*\*\*

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)  
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/******
```

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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- \* Microcode files for SB16 Advanced Signal Processor

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-----

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

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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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-----

Driver: acenic -- Alteon AceNIC Gigabit Ethernet card

File: acenic/tg1.bin

File: acenic/tg2.bin

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<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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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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```
/*
 * The firmware this driver downloads into the tokenring card is a
 * separate program and is not GPL'd source code, even though the Linux
 * side driver and the routine that loads this data into the card are.
 *
 * This firmware is licensed to you strictly for use in conjunction
 * with the use of 3Com 3C359 TokenRing adapters. There is no
 * warranty expressed or implied about its fitness for any purpose.
 */
/* 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

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-----

Driver: PCMCIA\_3C574 - 3Com PCMCIA adapter

File: cis/3CCFEM556.cis

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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

Licence: Allegedly GPL, but no source visible. Marked:

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(Special thanks to Kevin MacPherson of OSITECH)

Found in hex form in kernel source.

-----

Driver: SCSI\_QLOGICPTI - PTI Qlogic, ISP Driver

File: qlogic/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

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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.

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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  
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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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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

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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](mailto:shiang_tu@ralinktech.com)>. Firmware Version 34

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

File: rt2870.bin

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- \* Part No: 816-1331-11
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Network Working Group  
Request for Comments: 2104  
Category: Informational

H. Krawczyk  
IBM  
M. Bellare

UCSD

R. Canetti

IBM

February 1997

## HMAC: Keyed-Hashing for Message Authentication

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### Appendix -- Sample Code

---

Parts of nss.c are derived from the Mozilla NSS 3.9.2 source, mozilla/security/nss/cmd/smimetools/cmsutil.c. Therefore:

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IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.
- If you want to support further Vim development consider becoming a |sponsor|. The money goes to Uganda anyway.
- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.
- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.
- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.
- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED\_BY define.

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Kibaale Children's Centre

\*kcc\* \*Kibaale\* \*charity\*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

\*donate\*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre is co-sponsored and inspected by World Vision, Save the Children Fund and International Child Care Fund. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself in 1996, 1998, 2000, 2001 and 2003. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:

Kibaale Children's Centre  
p.o. box 1658  
Masaka, Uganda, East Africa

Sending money:

\*iccf-donations\*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.  
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.  
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy  
10238-168 Street  
Surrey, B.C. V4N 1Z4  
Canada  
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Venlo.  
This will allow for tax deduction if you live in Holland.  
Postbank, nr. 4548774

Germany: It is possible to make donations that allow for a tax return.  
Check the ICCF web site for the latest information:  
<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the

currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.  
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL47 PSTB 0004 5487 74

under the name "stichting ICCF Holland", Venlo

If that doesn't work:

Rabobank Venlo, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Venlo

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

stichting ICCF Holland

Bram Moolenaar

Finsterruetihof 1

8134 Adliswil

Switzerland

This address is expected to be valid for a long time.

wpa\_supplicant and hostapd v0.6.x

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This program is dual-licensed under both the GPL version 2 and BSD  
license. Either license may be used at your option.

This package may include either wpa\_supplicant, hostapd, or both. See  
README file respective subdirectories (wpa\_supplicant/README or  
hostapd/README) for more details.

Source code files have been moved around in v0.6.x releases and  
compared to earlier releases, the programs are now build by first  
going to a subdirectory (wpa\_supplicant or hostapd) and creating  
build configuration (.config) and running 'make' there (for  
Linux/BSD/cygwin builds).

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