Open Source Used In
the Cisco Local External Storage Server
Version 17.0 (RHEL 5.5)

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/*
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 *
From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

* Based on libdl (dlfcn.c/dlfcn.h) which is
* Jens-Uwe Mager, Helios Software GmbH, Hannover, Germany.
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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Portions of this software were developed at the National Center for Supercomputing Applications (NCSA) at the University of Illinois at Urbana-Champaign.

This software contains code derived from the RSA Data Security Inc. MD5 Message-Digest Algorithm.

1.2 apr-util 1.2.7 :11.el5_5.2

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id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
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Received: by los.ora.com (4.1/Spike-2.1)
id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

    I've modified a (modified) version of Bill Rosenblatt's ksh debugger
    to work with bash-2.0. Does ORA have any problem with me distributing
    it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and
stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).

-------

From mikel@ora.com Tue Aug 1 12:13:20 1995
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Return-Path: mikel@ora.com
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id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
I’ve modified a (modified) version of Bill Rosenblatt’s ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?

That’s great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book. (Too late to actually discuss the thing, at least for this edition).

-------

>Hi. I snagged some of your bash functions from your home directory on the FSF machines (naughty, I know), and I was wondering if you’d let me distribute them with bash-2.0. Thanks.

Sure. I think there’s a later copy in ~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

From spcecdt@armory.com
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU 'Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?
"The lyf so short, the craft so long to lerne." - Chaucer

Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

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jseward@acm.org
bzip2/libbzip2 version 1.0.3 of 15 February 2005

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jseward@acm.org
bzip2/libbzip2 version 1.0.3 of 15 February 2005

1.8 compat-gcc-32 3.2.3 :61

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1.11 dbus 1.1.2 :21.el5
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+++ gcc/testsuite/g++/debug/dwarf2/dwarf2.exp	2009-10-09 11:20:19.000000000 +0200
@@ -0,0 +1,43 @@
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1.22 gdm_vicious 2.16.0 :59.el5

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

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

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

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

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

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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457
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Date: Thu, 29 Apr 2004 14:10:41 -0700 (PDT)
From: Linus Torvalds <torvalds@osdl.org>
To: Giuliano Colla
cc: Linux Kernel Mailing List <linux-kernel@vger.kernel.org>
Subject: Re: [hsflinux] [PATCH] Blacklist binary-only modules lying about their license
Message-ID: <Pine.LNX.4.58.0404291404100.1629@ppc970.osdl.org>

On Thu, 29 Apr 2004, Giuliano Colla wrote:

> Let's try not to be ridiculous, please.

It's not abouf not being ridiculous. It's about honoring peoples copyrights.

> As an end user, if I buy a full fledged modem, I get some amount of
> proprietary, non GPL, code which executes within the board or the
> PCMCIA card of the modem. The GPL driver may even support the
> functionality of downloading a new version of *proprietary* code into
> the flash Eprom of the device. The GPL linux driver interfaces with it,
> and all is kosher.

Indeed. Everything is kosher, because the other piece of hardware and software has _nothing_ to do with the kernel. It's not linked into it, it cannot reasonably corrupt internal kernel data structures with random pointer bugs, and in general you can think of firmware as part of the _hardware_, not the software of the machine.

> On the other hand, I have the misfortune of being stuck with a
> soft-modem, roughly the *same* proprietary code is provided as a binary
> file, and a linux driver (source provided) interfaces with it. In that
> case the kernel is flagged as "tainted".

It is flagged as tainted, because your argument that it is "the same code" is totally BOGUS AND UNTRUE!

In the binary kernel module case, a bug in the code corrupts random data structures, or accesses kernel internals without holding the proper locks, or does a million other things wrong, BECAUSE A KERNEL MODULE IS VERY INTIMATELY LINKED WITH THE KERNEL.

A kernel module is _not_ a separate work, and can in _no_ way be seen as "part of the hardware". It's very much a part of the _kernel_. And the kernel developers require that such code be GPL'd so that it can be fixed, or if there's a valid argument that it's not a derived work and not GPL'd, then the kernel developers who have to support the end result mess most definitely do need to know about the taint.
You are not the first (and sadly, you likely won't be the last) person to equate binary kernel modules with binary firmware. And I tell you that such a comparison is ABSOLUTE CRAPOLA. There's a damn big difference between running firmware on another chip behind a PCI bus, and linking into the kernel directly.

And if you don't see that difference, then you are either terminally stupid, or you have some ulterior reason to claim that they are the same case even though they clearly are NOT.

> Can you honestly tell apart the two cases, if you don't make a it a case
> of "religion war"?

It has absolutely nothing to do with religion.

Linus

Date:Fri, 5 Dec 2003 09:19:52 -0800 (PST)
From:Linus Torvalds <torvalds@osdl.org>
To:Peter Chubb
cc:linux-kernel@vger.kernel.org
Subject: Re: Linux GPL and binary module exception clause?
Message-ID: <Pine.LNX.4.58.0312050853200.9125@home.osdl.org>

On Fri, 5 Dec 2003, Peter Chubb wrote:
> > As I understand it, SCO is/was claiming that JFS and XFS are derived
> > works of the UNIX source base, because they were developed to match
> > the internal interfaces of UNIX, and with knowledge of the internals
> > of UNIX -- and they hold the copyrights of and are the licensor of UNIX.

Yes, and I'm not claiming anything like that.

I claim that a "binary linux kernel module" is a derived work of the kernel, and thus has to come with sources.

But if you use those same sources (and _you_ wrote them) they do not contain any Linux code, they are _clearly_ not derived from Linux, and you can license and use your own code any way you want.

You just can't make a binary module for Linux, and claim that that module isn't derived from the kernel. Because it generally is - the binary module not only included header files, but more importantly it clearly is _not_ a standalone work any more. So even if you made your own prototypes and tried hard to avoid kernel headers, it would _still_ be connected and dependent on the kernel.
And note that I'm very much talking about just the _binary_. Your source code is still very much yours, and you have the right to distribute it separately any which way you want. You wrote it, you own the copyrights to it, and it is an independent work.

But when you distribute it in a way that is CLEARLY tied to the GPL'd kernel (and a binary module is just one such clear tie - a "patch" to build it or otherwise tie it to the kernel is also such a tie, even if you distribute it as source under some other license), you're BY DEFINITION not an independent work any more.

(But exactly because I'm not a black-and-white person, I reserve the right to make a balanced decision on any particular case. I have several times felt that the module author had a perfectly valid argument for why the "default assumption" of being derived wasn't the case. That's why things like the AFS module were accepted - but not liked - in the first place).

This is why SCO's arguments are specious. IBM wrote their code, retained their copyrights to their code AND THEY SEVERED THE CONNECTION TO SCO'S CODE (and, arguably the connections didn't even exist in the first place, since apparently things like JFS were written for OS/2 as well, and the Linux port was based on that one - but that's a separate argument and independent of my point).

See the definition of "derivative" in USC 17.1.101:

A "derivative work" is a work based upon one or more preexisting works, such as a translation, musical arrangement, dramatization, fictionalization, motion picture version, sound recording, art reproduction, abridgment, condensation, or any other form in which a work may be recast, transformed, or adapted. A work consisting of editorial revisions, annotations, elaborations, or other modifications which, as a whole, represent an original work of authorship, is a "derivative work".

And a binary module is an "elaboration" on the kernel. Sorry, but that is how it IS.

In short: your code is yours. The code you write is automatically copyrighted by YOU, and as such you have the right to license and use it any way you want (well, modulo _other_ laws, of course - in the US your license can't be racist, for example, but that has nothing to do with copyright laws, and would fall under a totally different legal framework).

But when you use that code to create an "elaboration" to the kernel, that makes it a derived work, and you cannot distribute it except as laid out by the GPL. A binary module is one such case, but even just a source patch is _also_ one such case. The lines you added are yours, but when you
distribute it as an elaboration, you are bound by the restriction on derivative works.

Or you had better have some other strong argument why it isn't. Which has been my point all along.

Linus

Date: Wed, 10 Dec 2003 09:10:18 -0800 (PST)
From: Linus Torvalds <torvalds@osdl.org>
To: Larry McVoy
Subject: Re: Linux GPL and binary module exception clause?

On Wed, 10 Dec 2003, Larry McVoy wrote:
>
> Which is? How is it that you can spend a page of text saying a judge doesn't care about technicalities and then base the rest of your argument on the distinction between a "plugin" and a "kernel module"?

I'll stop arguing, since you obviously do not get it.

I explained the technicalities to _you_, and you are a technical person.

But if you want to explain something to a judge, you get a real lawyer, and you make sure that the lawyer tries to explain the issue in _non_ technical terms. Because, quite frankly, the judge is not going to buy a technical discussion he or she doesn't understand.

Just as an example, how do you explain to a judge how much code the Linux kernel contains? Do you say "it's 6 million lines of C code and header files and documentation, for a total of about 175MB of data"?

Yeah, maybe you'd _mention_ that, but to actually _illustrate_ the point you'd say that if you printed it out, it would be a solid stack of papers 100 feet high. And you'd compare it to the height of the court building you're in, or something. Maybe you'd print out _one_ file, bind it as a book, and wave it around as one out of 15,000 files.

But when _you_ ask me about how big the kernel is, I'd say "5 million lines". See the difference? It would be silly for me to tell you how many feet of paper the kernel would print out to, because we don't have those kinds of associations.

Similarly, if you want to explain the notion of a kernel module, you'd compare it to maybe an extra chapter in a book. You'd make an analogy to something that never _ever_ mentions "linking".
Just imagine: distributing a compiled binary-only kernel module that can be loaded into the kernel is not like distributing a new book: it's more like distributing a extra chapter to a book that somebody else wrote, that uses all the same characters and the plot, but more importantly it literally can only be read _together_ with the original work. It doesn't stand alone.

In short, your honour, this extra chapter without any meaning on its own is a derived work of the book.

In contrast, maybe you can re-write your code and distribute it as a short-story, which can be run on its own, and maybe the author has been influenced by another book, but the short-story could be bound AS IS, and a recipient would find it useful even without that other book. In that case, the short story is not a derived work - it's only inspired.

Notice? This is actually _exactly_ what I've been arguing all along, except I've been arguing with a technical audience, so I've been using technical examples and terminology. But my argument is that just the fact that somebody compiled the code for Linux into a binary module that is useless without a particular version of the kernel DOES MAKE IT A DERIVED WORK.

But also note how it's only the BINARY MODULE that is a derived work. Your source code is _not_ necessarily a derived work, and if you compile it for another operating system, I'd clearly not complain.

This is the "stand-alone short story" vs "extra chapter without meaning outside the book" argument. See? One is a work in its own right, the other isn't.

Linus

Please read the FAQ at http://www.tux.org/lkml/
Date: Thu, 4 Dec 2003 22:43:42 -0800 (PST)
From: Linus Torvalds <torvalds@osdl.org>
To: David Schwartz
cc: linux-kernel@vger.kernel.org
Subject: RE: Linux GPL and binary module exception clause?

On Thu, 4 Dec 2003, David Schwartz wrote:
> > Yes, but they will cite the prohibition against *creating* derived
> > works.

So?
The same prohibition exists with the GPL. You are not allowed to create and distribute a derived work unless it is GPL'd.

I don't see what you are arguing against. It is very clear: a kernel module is a derived work of the kernel by default. End of story.

You can then try to prove (through development history etc) that there would be major reasons why it's not really derived. But your argument seems to be that _nothing_ is derived, which is clearly totally false, as you yourself admit when you replace "kernel" with "Harry Potter".

Linus

Date:Wed, 3 Dec 2003 16:00:21 -0800 (PST)
From:Linus Torvalds <torvalds@osdl.org>
To:Kendall Bennet
cc:linux-kernel@vger.kernel.org
Subject: Re: Linux GPL and binary module exception clause?

On Wed, 3 Dec 2003, Kendall Bennett wrote:
>
> I have heard many people reference the fact that although the Linux
> kernel is under the GNU GPL license, that the code is licensed with an
> exception clause that says binary loadable modules do not have to be
> under the GPL.

Nope. No such exception exists.

There's a clarification that user-space programs that use the standard system call interfaces aren't considered derived works, but even that isn't an "exception" - it's just a statement of a border of what is clearly considered a "derived work". User programs are _clearly_ not derived works of the kernel, and as such whatever the kernel license is just doesn't matter.

And in fact, when it comes to modules, the GPL issue is exactly the same. The kernel _is_ GPL. No ifs, buts and maybe's about it. As a result, anything that is a derived work has to be GPL'd. It's that simple.

Now, the "derived work" issue in copyright law is the only thing that leads to any gray areas. There are areas that are not gray at all: user space is clearly not a derived work, while kernel patches clearly _are_ derived works.

But one gray area in particular is something like a driver that was originally written for another operating system (ie clearly not a derived work of Linux in origin). At exactly what point does it become a derived work of the kernel (and thus fall under the GPL)?
THAT is a gray area, and _that_ is the area where I personally believe that some modules may be considered to not be derived works simply because they weren't designed for Linux and don't depend on any special Linux behaviour.

Basically:
- anything that was written with Linux in mind (whether it then _also_ works on other operating systems or not) is clearly partially a derived work.
- anything that has knowledge of and plays with fundamental internal Linux behaviour is clearly a derived work. If you need to muck around with core code, you're derived, no question about it.

Historically, there's been things like the original Andrew filesystem module: a standard filesystem that really wasn't written for Linux in the first place, and just implements a UNIX filesystem. Is that derived just because it got ported to Linux that had a reasonably similar VFS interface to what other UNIXes did? Personally, I didn't feel that I could make that judgment call. Maybe it was, maybe it wasn't, but it clearly is a gray area.

Personally, I think that case wasn't a derived work, and I was willing to tell the AFS guys so.

Does that mean that any kernel module is automatically not a derived work? HELL NO! It has nothing to do with modules per se, except that non-modules clearly are derived works (if they are so central to the kernel that you can't load them as a module, they are clearly derived works just by virtue of being very intimate - and because the GPL expressly mentions linking).

So being a module is not a sign of not being a derived work. It's just one sign that _maybe_ it might have other arguments for why it isn't derived.

Linus

Date: Wed, 3 Dec 2003 16:23:33 -0800 (PST)
From: Linus Torvalds <torvalds@osdl.org>
To: Kendall Bennett
c: linux-kernel@vger.kernel.org
Subject: Re: Linux GPL and binary module exception clause?

On Wed, 3 Dec 2003, Linus Torvalds wrote:
> 
> So being a module is not a sign of not being a derived work. It's just
> one sign that _maybe_ it might have other arguments for why it isn't
> derived.

Side note: historically, the Linux kernel module interfaces were really quite weak, and only exported a few tens of entry-points, and really mostly effectively only allowed character and block device drivers with standard interfaces, and loadable filesystems.

So historically, the fact that you could load a module using nothing but these standard interfaces tended to be a much stronger argument for not being very tightly coupled with the kernel.

That has changed, and the kernel module interfaces we have today are MUCH more extensive than they were back in '95 or so. These days modules are used for pretty much everything, including stuff that is very much "internal kernel" stuff and as a result the kind of historic "implied barrier" part of modules really has weakened, and as a result there is not a very strong argument for being an independent work from just the fact that you're a module.

Similarly, historically there was a much stronger argument for things like AFS and some of the binary drivers (long forgotten now) for having been developed totally independently of Linux: they literally were developed before Linux even existed, by people who had zero knowledge of Linux. That tends to strengthen the argument that they clearly aren't derived.

In contrast, these days it would be hard to argue that a new driver or filesystem was developed without any thought of Linux. I think the NVidia people can probably reasonably honestly say that the code they ported had _no_ Linux origin. But quite frankly, I'd be less inclined to believe that for some other projects out there..

Linus
- I have not seen a lot of actual usage of the hooks
- seen a number of people who still worry that the hooks degrade
  performance in critical areas
- the worry that people use it for non-GPL'd modules is apparently real,
  considering Crispin's reply.

I will re-iterate my stance on the GPL and kernel modules:

There is NOTHING in the kernel license that allows modules to be
non-GPL'd.

The _only_ thing that allows for non-GPL modules is copyright law, and
in particular the "derived work" issue. A vendor who distributes non-GPL
modules is _not_ protected by the module interface per se, and should
feel very confident that they can show in a court of law that the code
is not derived.

The module interface has NEVER been documented or meant to be a GPL
barrier. The COPYING clearly states that the system call layer is such a
barrier, so if you do your work in user land you're not in any way
beholden to the GPL. The module interfaces are not system calls: there
are system calls used to _install_ them, but the actual interfaces are
not.

The original binary-only modules were for things that were pre-existing
works of code, ie drivers and filesystems ported from other operating
systems, which thus could clearly be argued to not be derived works, and
the original limited export table also acted somewhat as a barrier to
show a level of distance.

In short, Crispin: I'm going to apply the patch, and if you as a copyright
holder of that file disagree, I will simply remove all of he LSM code from
the kernel. I think it's very clear that a LSM module is a derived work,
and thus copyright law and the GPL are not in any way unclear about it.

If people think they can avoid the GPL by using function pointers, they
are WRONG. And they have always been wrong.

Linus

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Date: Fri, 19 Oct 2001 13:16:45 -0700 (PDT)
From: Linus Torvalds <torvalds@transmeta.com>
To: Barnes
Subject: Re: GPL, Richard Stallman, and the Linux kernel

[ This is not, of course, a legal document, but if you want to forward it
to anybody else, feel free to do so. And if you want to argue legal
points with me or point somehting out, I'm always interested. To a point :]

On Fri, 19 Oct 2001, Barnes wrote:
> I've been exchanging e-mail with Richard Stallman for a couple of
> weeks about the finer points of the GPL.

I feel your pain.

> I've have spent time pouring through mailing list archives, usenet,
> and web search engines to find out what's already been covered about
> your statement of allowing dynamically loaded kernel modules with
> proprietary code to co-exist with the Linux kernel. So far I've
> been unable to find anything beyond vague statements attributed to
> you. If these issues are addressed somewhere already, please refer
> me.

Well, it really boils down to the equivalent of "_all_ derived modules
have to be GPL'd". An external module doesn't really change the GPL in
that respect.

There are (mainly historical) examples of UNIX device drivers and some
UNIX filesystems that were pre-existing pieces of work, and which had
fairly well-defined and clear interfaces and that I personally could not
really consider any kind of "derived work" at all, and that were thus
acceptable. The clearest example of this is probably the AFS (the Andrew
Filesystem), but there have been various device drivers ported from SCO
too.

> Issue #1
> ========
> Currently the GPL version 2 license is the only license covering the
> Linux kernel. I cannot find any alternative license explaining the
> loadable kernel module exception which makes your position difficult
> to legally analyze.
> >
> > There is a note at the top of www.kernel.org/pub/linux/kernel/COPYING,
> > but that states "user programs" which would clearly not apply to
> > kernel modules.
> >
> > Could you clarify in writing what the exception precisely states?

Well, there really is no exception. However, copyright law obviously
hinges on the definition of "derived work", and as such anything can
always be argued on that point.

I personally consider anything a "derived work" that needs special hooks
in the kernel to function with Linux (ie it is _not_ acceptable to make a small piece of GPL-code as a hook for the larger piece), as that obviously implies that the bigger module needs "help" from the main kernel.

Similarly, I consider anything that has intimate knowledge about kernel internals to be a derived work.

What is left in the gray area tends to be clearly separate modules: code that had a life outside Linux from the beginning, and that do something self-containted that doesn't really have any impact on the rest of the kernel. A device driver that was originally written for something else, and that doesn't need any but the standard UNIX read/write kind of interfaces, for example.

> Issue #2
> ========
> I've found statements attributed to you that you think only 10% of
> the code in the current kernel was written by you. By not being the
> sole copyright holder of the Linux kernel, a stated exception to
> the GPL seems invalid unless all kernel copyright holders agreed on
> this exception. How does the exception cover GPL'd kernel code not
> written by you? Has everyone contributing to the kernel forfeited
> their copyright to you or agreed with the exception?

Well, see above about the lack of exception, and about the fundamental gray area in _any_ copyright issue. The "derived work" issue is obviously a gray area, and I know lawyers don't like them. Crazy people (even judges) have, as we know, claimed that even obvious spoofs of a work that contain nothing of the original work itself, can be ruled to be "derived".

I don't hold views that extreme, but at the same time I do consider a module written for Linux and using kernel infrastructures to get its work done, even if not actually copying any existing Linux code, to be a derived work by default. You'd have to have a strong case to _not_ consider your code a derived work.

> Issue #3
> ========
> This issue is related to issue #1. Exactly what is covered by the
> exception? For example, all code shipped with the Linux kernel
> archive and typically installed under /usr/src/linux, all code under
> /usr/src/linux except /usr/src/linux/drivers, or just the code in
> the /usr/src/linux/kernel directory?

See above, and I think you'll see my point.

The "user program" exception is not an exception at all, for example, it's just a more clearly stated limitation on the "derived work" issue. If you
use standard UNIX system calls (with accepted Linux extensions), your program obviously doesn't "derive" from the kernel itself.

Whenever you link into the kernel, either directly or through a module, the case is just a _lot_ more muddy. But as stated, by default it's obviously derived - the very fact that you _need_ to do something as fundamental as linking against the kernel very much argues that your module is not a stand-alone thing, regardless of where the module source code itself has come from.

> Issue #4
> =========
> This last issue is not so much a issue for the Linux kernel
> exception, but a request for comment.
> 
> Richard and I both agree that a "plug-in" and a "dynamically loaded kernel module" are effectively the same under the GPL.

Agreed.

The Linux kernel modules had (a long time ago), a more limited interface, and not very many functions were actually exported. So five or six years ago, we could believably claim that "if you only use these N interfaces that are exported from the standard kernel, you've kind of implicitly proven that you do not need the kernel infrastructure".

That was never really documented either (more of a guideline for me and others when we looked at the "derived work" issue), and as modules were more-and-more used not for external stuff, but just for dynamic loading of standard linux modules that were distributed as part of the kernel anyway, the "limited interfaces" argument is no longer a very good guideline for "derived work".

So these days, we export many internal interfaces, not because we don't think that they would "taint" the linker, but simply because it's useful to do dynamic run-time loading of modules even with standard kernel modules that _are_ supposed to know a lot about kernel internals, and are obviously "derived works".

> However we disagree that a plug-in for a GPL'd program falls
> under the GPL as asserted in the GPL FAQ found in the answer:
> http://www.gnu.org/licenses/gpl-faq.html#GPLAndPlugins.

I think you really just disagree on what is derived, and what is not. Richard is very extreme: _anything_ that links is derived, regardless of what the arguments against it are. I'm less extreme, and I bet you're even less so (at least you would like to argue so for your company).
> My assertion is that plug-ins are written to an interface, not a
> program. Since interfaces are not GPL'd, a plug-in cannot be GPL'd
> until the plug-in and program are placed together and run. That is
> done by the end user, not the plug-in creator.

I agree, but also disrespectfully disagree ;)

It's an issue of what a "plug-in" is - is it a way for the program to
to internally load more modules as it needs them, or is it _meant_ to be a
public, published interface.

For example, the "system call" interface could be considered a "plug-in
interface", and running a user mode program under Linux could easily be
constructed as running a "plug-in" for the Linux kernel. No?

And there, I obviously absolutely agree with you 100%: the interface is
published, and it's _meant_ for external and independent users. It's an
interface that we go to great lengths to preserve as well as we can, and
it's an interface that is designed to be independent of kernel versions.

But maybe somebody wrote his program with the intention to dynamically
load "actors" as they were needed, as a way to maintain a good modularity,
and to try to keep the problem spaces well-defined. In that case, the
"plug-in" may technically follow all the same rules as the system call
interface, even though the author doesn't intend it that way.

So I think it's to a large degree a matter of intent, but it could
arguably also be considered a matter of stability and documentation (ie
"require recompilation of the plug-in between version changes" would tend
to imply that it's an internal interface, while "documented binary
compatibility across many releases" implies a more stable external
interface, and less of a derived work)

Does that make sense to you?

> I asked Richard to comment on several scenarios involving plug-ins
> explain whether or not they were in violation of the GPL. So far he
> as only addressed one and has effectively admitted a hole. This is
> the one I asked that he's responded to:
> > [A] non-GPL'd plug-in writer writes a plug-in for a non-GPL'd
> > program. Another author writes a GPL'd program making the
> > first author's plug-ins compatible with his program. Are now
> > the plug-in author's plug-ins now retroactively required to be
> > GPL'd?
> >
> > His response:
> > No, because the plug-in was not written to extend this program.
> I find it suspicious that whether or not the GPL would apply to the
> plug-in depends on the mindset of the author.

The above makes no sense if you think of it as a "plug in" issue, but it
makes sense if you think of it as a "derived work" issue, along with
taking "intent" into account.

I know lawyers tend to not like the notion of "intent", because it brings
in another whole range of gray areas, but it's obviously a legal reality.

Ok, enough blathering from me. I'd just like to finish off with a few
comments, just to clarify my personal stand:

- I'm obviously not the only copyright holder of Linux, and I did so on
  purpose for several reasons. One reason is just because I hate the
  paperwork and other cr*p that goes along with copyright assignments.

Another is that I don't much like copyright assignments at all: the
author is the author, and he may be bound by my requirement for GPL,
but that doesn't mean that he should give his copyright to me.

A third reason, and the most relevant reason here, is that I want
people to _know_ that I cannot control the sources. I can write you a
note to say that "for use XXX, I do not consider module YYY to be a
derived work of my kernel", but that would not really matter that much.
Any other Linux copyright holder might still sue you.

This third reason is what makes people who otherwise might not trust me
realize that I cannot screw people over. I am bound by the same
agreement that I require of everybody else, and the only special status
I really have is a totally non-legal issue: people trust me.

(Yes, I realize that I probably would end up having more legal status
than most, even apart from the fact that I still am the largest single
copyright holder, if only because of appearances)

- I don't really care about copyright law itself. What I care about is my
  own morals. Whether I'd ever sue somebody or not (and quite frankly,
it's the last thing I ever want to do - if I never end up talking to
lawyers in a professional context, I'll be perfectly happy. No
disrespect intended) will be entirely up to whether I consider what
people do to me "moral" or not. Which is why intent matters to me a
lot - both the intent of the person/corporation doign the infringement,
_and_ the intent of me and others in issues like the module export
interface.

Another way of putting this: I don't care about "legal loopholes" and
word-wrangling.
Finally: I don't trust the FSF. I like the GPL a lot - although not necessarily as a legal piece of paper, but more as an intent. Which explains why, if you've looked at the Linux COPYING file, you may have noticed the explicit comment about "only _this_ particular version of the GPL covers the kernel by default".

That's because I agree with the GPL as-is, but I do not agree with the FSF on many other matters. I don't like software patents much, for example, but I do not want the code I write to be used as a weapon against companies that have them. The FSF has long been discussing and is drafting the "next generation" GPL, and they generally suggest that people using the GPL should say "v2 or at your choice any later version".

Linux doesn't do that. The Linux kernel is v2 ONLY, apart from a few files where the author put in the FSF extension (and see above about copyright assignments why I would never remove such an extension).

The "v2 only" issue might change some day, but only after all documented copyright holders agree on it, and only after we've seen what the FSF suggests. From what I've seen so far from the FSF drafts, we're not likely to change our v2-only stance, but there might of course be legal reasons why we'd have to do something like it (ie somebody challenging the GPLv2 in court, and part of it to be found unenforceable or similar would obviously mean that we'd have to reconsider the license).

Linus

PS. Historically, binary-only modules have not worked well under Linux, quite regardless of any copyright issues. The kernel just develops too quickly for binary modules to work well, and nobody really supports them. Companies like Red Hat etc tend to refuse to have anything to do with binary modules, because if something goes wrong there is nothing they can do about it. So I just wanted to let you know that the _legal_ issue is just the beginning. Even though you probably don't personally care ;)

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v2.2 or v3.x or whatever), unless explicitly otherwise stated.

Linus Torvalds

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 $Revision: 1.1 $ $Date: 1999/08/20 11:00:11 $
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *
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M. Welsh, 6 July 1996

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@vskip 12pt
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@end iftex
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@code{src/lib/gssapi}, including the following files:

@smallexample
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  
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cmd/krb5/kproplog/kproplog.c  
cmd/krb5/slave/kpropd_rpc.c  
lib/gss_mechs/mech_krb5/et/kdb5_err.c  
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h  
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/kadmind/kadm_host_srv_names.c
lib/kadmind/kdb/kadm_convert.c
lib/kadmind/kdb/kdb_hdr.h
lib/kadmind/kdb/kdb_log.c
lib/kadmind/kdb/kdb_log.h
lib/libgss/g accept_sec_context.c
lib/libgss/g acquire_cred.c
lib/libgss/g canon_name.c
lib/libgss/g compare_name.c
lib/libgss/g context_time.c
lib/libgss/g delete_sec_context.c
lib/libgss/g dsp_name.c
lib/libgss/g dsp_status.c
lib/libgss/g dup_name.c
lib/libgss/g exp_sec_context.c
lib/libgss/g export_name.c
lib/libgss/g glue.c
lib/libgss/g imp_name.c
lib/libgss/g imp sec_context.c
lib/libgss/g init_sec_context.c
lib/libgss/g initialize.c
lib/libgss/g inquire_context.c
lib/libgss/g inquire_cred.c
lib/libgss/g inquire_names.c
lib/libgss/g process_context.c
lib/libgss/g rel_buffer.c
lib/libgss/g rel_cred.c
lib/libgss/g rel_name.c
lib/libgss/g rel_oid_set.c
lib/libgss/g seal.c
lib/libgss/g sign.c
lib/libgss/g store_cred.c
lib/libgss/g unseal.c
lib/libgss/g userok.c
lib/libgss/g utils.c
lib/libgss/g verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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@smallexample
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
@end smallexample
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
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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
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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02111-1307, USA. */

/* It is incorrect to include config.h here, because this file is being
 compiled for the target, and hence definitions concerning only the host
do not apply. */

1.36 libjpeg 6b :37
1.36.1 Notifications :
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The Independent JPEG Group's JPEG software
============================================

README for release 6b of 27-Mar-1998
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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

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

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

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

This file contains the following sections:

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

Other documentation files in the distribution are:

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

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

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

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

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

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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

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

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

We are required to state that
REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

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

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


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

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

The JPEG standard does not specify all details of an interchangeable file
format. For the omitted details we follow the "JFIF" conventions, revision
1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

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

ARCHIVE LOCATIONS

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

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

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

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

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send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

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

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

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

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

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

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

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

TO DO
=====

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

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

As always, speeding things up is of great interest.
Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

# Attempt to guess a canonical system name.

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# Written by Per Bothner <bothner@cygnus.com>.
# The master version of this file is at the FSF in /home/gd/gnu/lib.

/*

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with another program, this in itself does not bring the other program under
the GPL, nor does the mere fact that such a program or the procedures for
constructing it invoke the ansi2knr executable bring any other part of the
program under the GPL.

*/
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*/

/*
* Usage:
ansi2knr input_file [output_file]
* If no output_file is supplied, output goes to stdout.
* There are no error messages.
*
* ansi2knr recognizes function definitions by seeing a non-keyword
* identifier at the left margin, followed by a left parenthesis,
* with a right parenthesis as the last character on the line,
* and with a left brace as the first token on the following line
* (ignoring possible intervening comments).
* It will recognize a multi-line header provided that no intervening
* line ends with a left or right brace or a semicolon.
* These algorithms ignore whitespace and comments, except that
* the function name must be the first thing on the line.
* The following constructs will confuse it:
* - Any other construct that starts at the left margin and
* follows the above syntax (such as a macro or function call).
* - Some macros that tinker with the syntax of the function header.
*/

# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
#
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#
# Calling this script install-sh is preferred over install.sh, to prevent
# `make' implicit rules from creating a file called install from it
# when there is no Makefile.
#
# This script is compatible with the BSD install script, but was written
# from scratch. It can only install one file at a time, a restriction
# shared with many OS’s install programs.

/* Portions of this code are based on the PBMPLUS library, which is:
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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
April 23, 2006

---------------------------------------------------------------------------

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1.38 libtiff 3.8.2 :18.el5_8

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1.39 libuser 0.54.7 :3.el5

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1.40 libXfont 1.2.2 :1.0.5.el5_10

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 *
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* (that is, NaNs and infinity). They provide the capability to detect
* and fabricate special quantities.
*
* Although written to be as portable as possible, it can never be
* guaranteed to work on all platforms, as not all hardware supports
* special quantities.
*
* The approach used here (approximately) is to:
* 1. Use C99 functionality when available.
* 2. Use IEEE 754 bit-patterns if possible.
* 3. Use platform-specific techniques.
*
************************************************************************/

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  * based on xsltproc.c, by Daniel.Veillard@imag.fr
  * by John Fleck
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
(d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

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

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

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

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

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the
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Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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

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

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

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

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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b) Give prominent notice with the combined library of the fact
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

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

The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit
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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you
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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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28. [31] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
29. [32] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
30. [33] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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38. [42] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
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40. [44] Wilfredo Sönchez <wsanchez@apple.com> added support for NetInfo
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42. [46] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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45. [49] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
46. [50] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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* and Marc Brett, from whom much of this code was shamelessly stolen. *
* *
* this modified timepps.h can be used to provide a PPSAPI interface *
* to a machine running SCO Unix. *
* *
******************************************************************************
* *
* A full PPSAPI interface to the SCO Unix kernel would be better, but *
* this at least removes the necessity for special coding from the NTP *
* NTP drivers. *
* *
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Protocol Distribution Version 4 and are acknowledged as authors of this work.

1. [1] Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
2. [2] Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
4. [5] Michael Barone <michael,barone@lmco.com> GPSVME fixes
5. [6] Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
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7. [8] Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and isosignal code into separate modules.
8. [9] Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10] Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
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23. [25] Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
24. [26] Frank Kardel [27]<kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
25. [28] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
26. [29] Dave Katz <dkaetz@cisco.com> RS/6000 AIX port
27. [30] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
28. [31] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
29. [32] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
30. [33] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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34. [37] Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
35. [38] Tom Moore <tmoore@fiever.daytonoh.ncri.com> i386 svr4 port
36. [39] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
37. [40] Derek Mulcahy <derek@toybox.demon.co.uk> and [41] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
38. [42] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
39. [43] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
40. [44] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
41. [45] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
42. [46] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
43. [47] Ray Schnitzler <schnitz@unypress.com> Unixware1 port
44. [48] Michael Shields <shields@tembel.org> USNO clock driver
45. [49] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
46. [50] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
47. [51] Kenneth Stone <ken@sdd.hp.com> HP-UX port
48. [52] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
49. [53] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
50. [54] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
51. [55] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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In some email I received from Harlan Stenn, sie wrote:

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> 
> I'm looking for an async resolver library that I can use with NTP.
> 
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> 
> so I thought I'd ask your permission to distribute your files if I can
> figure out how to make it all work with ntpd.

http://coombs.anu.edu.au/~avalon/arlib.tar.gz

a few bug fixes (inc. buffer overflow :) and stuff in there.

But otherwise, go for it.

Darren
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13 March 2006

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1.58 perl 5.8.8 :41.el5

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**1.59 php 5.1.6 :43.el5_10**

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THE BASIC LIBRARY FUNCTIONS
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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk
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Written by: Philip Hazel
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1.64 pycrypto 2.6.1
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1.73 sysstat 7.0.2 :12.el5

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1.74 tcl 8.4.13 :6.el5

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 */

#ifndef __AUTH__
define __AUTH__

Open Source Used In the Cisco Local External Storage Server 17.0 (RHEL 5.5)
#define AUTH_REJECT 0 /* Rejected */
#define AUTH_UNKNOWN 1 /* We don't know who he is, but he's okay */
#define AUTH_OTHER 2 /* We know him, but not his name */
#define AUTH_USER 3 /* We know his name */
#define AUTH_VALID 4 /* We know him, and he needs no password */

typedef struct XauthP {
    int type;
    int way;
    int(*init)(__P(struct XauthP *, int));
    int(*send)(__P(struct XauthP *));
    void(*is)(__P(struct XauthP *, unsigned char *, int));
    void(*reply)(__P(struct XauthP *, unsigned char *, int));
    int(*status)(__P(struct XauthP *, char *, int));
    void(*printsub)(__P((unsigned char *, int, unsigned char *, int)));
} Authenticator;

#include "auth-proto.h"

extern int auth_debug_mode;
#endif

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This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.

Preamble

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a “work based on the library” and a “work that uses the library”. The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

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

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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1.80 vsftpd 2.0.5 :28.el5

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1.82 xorg-x11-filesystem 7.1 :2.fc6

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Name: xorg-x11-filesystem
Version: 7.1
Release: 2% {?dist}
License: MIT/X11
Group: System Environment/Base
URL: http://www.redhat.com
BuildRoot: %{_tmppath}/%{name}-%{version}-%{release}-root-%{__id_u} -n
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1.83 xorg-x11-server-utils 7.1 :5.el5_6.2

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