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1.279 ORBit2 2.14.3 :5.el5
1.279.1 Available under license
1.280 pam 0.99.6.2 :6.el5_5.2
1.280.1 Available under license
1.281 pam_passwdqc 1.0.2 :1.2.2
1.281.1 Available under license
1.282 pam_smb 1.1.7 :7.2.1
1.282.1 Available under license
1.283 pango 1.14.9 :8.el5_7.3
1.283.1 Available under license

- 1.284 parted 1.8.1 :29.el5**
 - 1.284.1 Available under license
- 1.285 passwd 0.73 :2**
 - 1.285.1 Available under license
- 1.286 patch 2.5.4 :31.el5**
 - 1.286.1 Available under license
- 1.287 pax 3.4 :2.el5**
 - 1.287.1 Available under license
- 1.288 pciutils 3.1.7 :5.el5**
 - 1.288.1 Available under license
- 1.289 pcre 6.6 :6.el5_6.1**
 - 1.289.1 Available under license
- 1.290 per-Font-TTF 0.45 :7.el5.1**
 - 1.290.1 Available under license
- 1.291 perl 5.8.8 :43.el5_11**
 - 1.291.1 Available under license
- 1.292 perl-BSD-Resource 1.28 :1.fc6.1**
 - 1.292.1 Available under license
- 1.293 perl-Compress-Zlib 1.42 :1.fc6**
 - 1.293.1 Available under license
- 1.294 perl-Config-Properties 1.71 :1**
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- 1.295 perl-Data-Validate-IP 0.11 :1**
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 - 1.296.1 Available under license
- 1.297 perl-DBI 1.52 :2.el5**
 - 1.297.1 Available under license
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 - 1.298.1 Available under license
- 1.299 perl-HTML-Parser 3.55 :1.fc6**
 - 1.299.1 Available under license
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 - 1.300.1 Available under license
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 - 1.302.1 Available under license
- 1.303 perl-IO-Tty 1.08 :1**

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1.304.1 Available under license
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1.305.1 Available under license
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1.306.1 Available under license
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1.307.1 Available under license
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1.308.1 Available under license
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1.309.1 Available under license
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 - 1.335.1 Available under license
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 - 1.336.1 Available under license
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1.348 rhpl 0.194.1 :2
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1.2 acl_v2 2.2.39 :8.e15

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```

```
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1.5 amtu 1.0.6 :2.e15

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1.6 ant 1.6.5

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2000-05-05

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*/

package org.apache.commons.codec;

/**

* Defines common decoding methods for byte array decoders.

*

* @author Apache Software Foundation

* @version \$Id: BinaryDecoder.java,v 1.10 2004/06/15 18:14:15 ggregory Exp \$

*/

public interface BinaryDecoder extends Decoder {

/**

* Decodes a byte array and returns the results as a byte array.

*

* @param pArray A byte array which has been encoded with the

* appropriate encoder

*

* @return a byte array that contains decoded content

*

* @throws DecoderException A decoder exception is thrown

```

*     if a Decoder encounters a failure condition during
*     the decode process.
*/
byte[] decode(byte[] pArray) throws DecoderException;
}

```

The commons-codec team is pleased to announce the Codec 1.3 release!

<http://jakarta.apache.org/commons/codec/>

The codec package contains simple encoder and decoders for various formats such as Base64 and Hexadecimal. In addition to these widely used encoders and decoders, the codec package also maintains a collection of phonetic encoding utilities.

Changes in this version include:

New Features:

- o BinaryCodec: Encodes and decodes binary to and from Strings of 0s and 1s. Issue: 27813. Thanks to Alex Karasulu.
- o QuotedPrintableCodec: Codec for RFC 1521 MIME (Multipurpose Internet Mail Extensions) Part One. Rules #3, #4, and #5 of the quoted-printable spec are not implemented yet. See also issue 27789. Issue: 26617. Thanks to Oleg Kalnichevski.
- o BCodec: Identical to the Base64 encoding defined by RFC 1521 and allows a character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.
- o QCodec: Similar to the Quoted-Printable content-transfer-encoding defined in RFC 1521 and designed to allow text containing mostly ASCII characters to be decipherable on an ASCII terminal without decoding. Issue: 26617. Thanks to Oleg Kalnichevski.
- o Soundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.
- o RefinedSoundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.

Fixed bugs:

- o The default URL encoding logic was broken. Issue: 25995. Thanks to Oleg Kalnichevski.
- o Base64 chunked encoding not compliant with RFC 2045 section 2.1 CRLF. Issue: 27781. Thanks to Gary D. Gregory.
- o Hex converts illegal characters to 255. Issue: 28455.
- o Metaphone now correctly handles a silent B in a word that ends in MB. "COMB" is encoded as "KM", before this fix "COMB" was encoded as "KMB". Issue: 28457.
- o Added missing tags in Javadoc comments.
- o General Javadoc improvements.

Changes:

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- o The Board recommendation to remove Javadoc author tags has been implemented. All author tags are now "Apache Software Foundation".

Have fun!

-The commons-codec team

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Java HTML Tidy - JTidy
HTML parser and pretty printer

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From dso/aix/dso.c:

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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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```
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1.15 at 3.1.8 :84.e15

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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.

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.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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.
- 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.

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:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
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1.17 attr 2.4.32 :1.1

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free

software only, so we use the Lesser General Public License.

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.

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If

identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in 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.

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library

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1.19 audit_Igpl 1.8 :2.e15

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Flags: 10

Return-Path: mikel@ora.com

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id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)

Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400

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).

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From friedman@cli.com Thu May 25 12:19:06 1995

Flags: 10

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Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTTP (8.6.10+cwru/CWRU-2.1-ins)

id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)

Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)

Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)

id AA27213; Thu, 25 May 95 11:18:25 CDT

Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>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 spcedt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcedt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with
SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcedt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcedt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcedt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.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:

} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;

```
}      9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} 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?
}
} Chet Ramey
}
} --
} "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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1.23 beanlib 3.3.0beta20

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To do so, attach the following notices to the program. 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.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
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but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License  
along with this program; if not, write to the Free Software  
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```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.26 bitstream-vera-fonts 1.10 :7

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Copyright FAQ

=====

1. I don't understand the resale restriction... What gives?

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2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves.

See 1. above.

3. Are derivative works allowed?

Yes!

4. Can I change or add to the font(s)?

Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

1.27 bzip2 1.0.3 :6.e15_5

1.27.1 Available under license :

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Julian Seward, Cambridge, UK.

jseward@acm.org

bzip2/libbzip2 version 1.0.3 of 15 February 2005

1.28 c3p0 0.9.1

1.28.1 Available under license :

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Version 2.1, February 1999

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1.29 c3p0 0.9.5.2

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1.30 cglib-nodep 2.1 :3

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1.40 coreutils 5.97 :34.e15

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1.41 cpio 2.6 :26.e15

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```
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Copyright (C) 19yy <name of author>
```

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```
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under certain conditions; type `show c' for details.
```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.42 cpuspeed 1.2.1 :10.e15

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```
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```

```
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1.43 cracklib 2.8.9 :3.3

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1 Infinite Loop

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1.50 cyrus-sasl 2.1.22 :5.e15_4.3

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser

General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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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.

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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"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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(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.

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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.

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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.

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:

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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.

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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.

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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1.58 device-mapper-multipath 0.4.7 :48.e15

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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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(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

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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.

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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

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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 modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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That's all there is to it!

/*

* dasd.h

*

* IBM DASD partition table handling.

*

* Mostly taken from drivers/s390/block/dasd.c

*

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1.68 dosfstools 2.11 :9.e15

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1.69 dump 0.4b41 :6.e15

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- * Ported to Linux's Second Extended File System as part of the
 - * dump and restore backup suit
 - * Remy Card <card@Linux.EU.Org>, 1994-1997
 - * Stelian Pop <stelian@popies.net>, 1999-2000
 - * Stelian Pop <stelian@popies.net> - Alc"ve <www.alcove.com>, 2000-2002
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*/

#!/bin/sh

#

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
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1.70 e2fsprogs 1.39 :33.e15

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Theodore Ts'o
15-Mar-2003

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Theodore Ts'o
23-June-2007

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

/*

* profile.c -- A simple configuration file parsing "library in a file"

*

* The profile library was originally written by Theodore Ts'o in 1995
* for use in the MIT Kerberos v5 library. It has been
* modified/enhanced/bug-fixed over time by other members of the MIT
* Kerberos team. This version was originally taken from the Kerberos
* v5 distribution, version 1.4.2, and radically simplified for use in
* e2fsprogs. (Support for locking for multi-threaded operations,
* being able to modify and update the configuration file
* programmatically, and Mac/Windows portability have been removed.
* It has been folded into a single C source file to make it easier to
* fold into an application program.)

*

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Gadi Oxman, August 1995

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```
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```
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```

```
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```

```
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Ty Coon, President of Vice
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.3.2.4 2009-05-13 08:53:01 oleksiys Exp $
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/**
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Algorithm.
*
* @author Alan Stewart
*/
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```
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```

<signature of Ty Coon>, 1 April 1989

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- libpostproc
- optional x86 optimizations in the files
 - `libavcodec/x86/flac_dsp_gpl.asm`
 - `libavcodec/x86/idct_mmx.c`
- libutvideo encoding/decoding wrappers in `libavcodec/libutvideo*.cpp`
- the X11 grabber in `libavdevice/x11grab.c`
- the swresample test app in `libswresample/swresample-test.c`
- the `texi2pod.pl` tool
- the following filters in libavfilter:
 - `f_ebur128.c`
 - `vf_blackframe.c`
 - `vf_boxblur.c`
 - `vf_colormatrix.c`
 - `vf_cover_rect.c`
 - `vf_croptdetect.c`
 - `vf_delogo.c`
 - `vf_eq.c`
 - `vf_find_rect.c`
 - `vf_fspp.c`
 - `vf_geq.c`
 - `vf_histeq.c`
 - `vf_hqdn3d.c`
 - `vf_interlace.c`
 - `vf_kerndeint.c`
 - `vf_mcdeint.c`
 - `vf_mpdecimate.c`
 - `vf_owdenoise.c`
 - `vf_perspective.c`
 - `vf_phase.c`
 - `vf_pp.c`
 - `vf_pp7.c`

- `vf_pullup.c`
- `vf_sab.c`
- `vf_smartblur.c`
- `vf_repeatfields.c`
- `vf_spp.c`
- `vf_stereo3d.c`
- `vf_super2xsai.c`
- `vf_tinterlace.c`
- `vf_uspp.c`
- `vsrc_mptestsrc.c`

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- * `tests/reference.pnm` is under the expat license.

external libraries

=====

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

compatible libraries

The following libraries are under GPL:

- frei0r
- libcdio
- libutvideo
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

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incompatible libraries

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If you wish to enable these libraries, pass `--enable-nonfree` to configure. But note that if you enable any of these libraries the resulting binary will be under a complex license mix that is more restrictive than the LGPL and that may result in additional obligations. It is possible that these restrictions cause the resulting binary to be unredistributable.

1.81 ffmpeg_GPLv2 0.10.2

1.81.1 Available under license :

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Specifically, the GPL parts of FFmpeg are

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- optional x86 optimizations in the files
libavcodec/x86/idct_mmx.c
- the X11 grabber in libavdevice/x11grab.c

There are a handful of files under other licensing terms, namely:

- * The files libavcodec/jfdctfst.c, libavcodec/jfdctint.c, libavcodec/jrevdct.c are taken from libjpeg, see the top of the files for licensing details.

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external libraries:

Some external libraries, e.g. `libx264`, are under GPL and can be used in conjunction with FFmpeg. They require `--enable-gpl` to be passed to configure as well.

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The nonfree external libraries `libfaac` and `libaacplus` can be hooked up in FFmpeg. You need to pass `--enable-nonfree` to configure to enable it. Employ this option with care as FFmpeg then becomes nonfree and unredistributable.

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1.82 file 4.17 :28

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1.83 FindBugs-jsr305 1.3.9

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1.84 findutils 4.2.27 :6.e15

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1.85 finger 0.17 :33

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1.86 fipscheck 1.2.0 :1.e15

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1.87 firstboot 1.4.27.9 :1.el5

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Summary: Initial system configuration utility

Name: firstboot

Version: 1.4.27.9

Release: 1%{?dist}

URL: <http://fedora.redhat.com/projects/config-tools/>

License: GPL

ExclusiveOS: Linux

Group: System Environment/Base

BuildRoot: % {_tmppath}/% {name}-% {version}-root

Source0: % {name}-% {version}.tar.bz2

Obsoletes: anaconda-reconfig

Prereq: chkconfig, /etc/init.d

BuildPreReq: gettext

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1.88 fontconfig 2.4.1 :7.e15

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1.89 freetype 2.2.1 :32.el5_9.1

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```
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#
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#
# This script is compatible with the BSD install script, but was written
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```

1.92 gawk 3.1.5 :15.e15

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1.93 gcc 4.1.2 :52.e15

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```
--- gcc/testsuite/g++.dg/debug/dwarf2/dwarf2.exp.jj 2009-10-09 11:20:19.000000000 +0200
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Version 3, 29 June 2007

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1.94 gcc_testsuite_patch 4.1.2 :52.e15

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```
--- gcc/testsuite/g++.dg/debug/dwarf2/dwarf2.exp.jj 2009-10-09 11:20:19.000000000 +0200
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```
# Configuration validation subroutine script, version 1.1.
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# configuration script generated by Autoconf, you may include it under
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```

```

# Configuration subroutine to validate and canonicalize a configuration type.
# Supply the specified configuration type as an argument.
# If it is invalid, we print an error message on stderr and exit with code 1.
# Otherwise, we print the canonical config type on stdout and succeed.

# This file is supposed to be the same for all GNU packages
# and recognize all the CPU types, system types and aliases
# that are meaningful with *any* GNU software.
# Each package is responsible for reporting which valid configurations
# it does not support. The user should be able to distinguish
# a failure to support a val
#
# 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.

```

1.98 glib2 2.12.3 :4.e15_3.1

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<one line to give the program's name and a brief idea of what it does.>

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```
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```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

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```
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```

```
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```
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```

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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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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.

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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.

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1.101 gnupg 1.4.5 :18.e15_10.1

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```
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```

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```

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1.104 grep 2.5.1 :55.e15

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1.105 groff 1.18.1.1 :13.e15

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*

* if_epreg.h,v 1.4 1994/11/13 10:12:37 gibbs Exp Modified by:

*

October 2, 1994

Modified by: Andres Vega Garcia

INRIA - Sophia Antipolis, France

e-mail: avega@sophia.inria.fr

finger: avega@pax.inria.fr

*/

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* @(#)dinode.h 8.3 (Berkeley) 1/21/94
 * \$FreeBSD: src/sys/ufs/ufs/dinode.h,v 1.11 2002/07/16 22:36:00 mckusick Exp \$
 */
 /*-

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* from: @(#)exec.h 8.1 (Berkeley) 6/11/93
* $Id: imgact_aout.h,v 1.1 1999/06/24 00:03:22 okuji Exp $
*/
/*
* 11/23/95 - Kludge to get "ntohl" null macro added. -- ESB
* - and for __LDPGSZ
*/
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```

1.107 gtk2 2.10.4 :21.e15_7.7

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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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```

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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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Written by: Philip Hazel <ph10@cam.ac.uk>

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```
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=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

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1.127 initscripts 8.45.42 :1.e15

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1.129 iptables 1.3.5 :9.1.e15

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```
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*/
.TH IP6TABLES-RESTORE 8 "Jan 30, 2002" "" ""
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1.130 iptstate 1.4 :2.e15

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IP Tables State (iptstate)

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1.131 iptutils 20020927 :46.e15

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*

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*

* Authors: Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru>

*/

```
/*
 * Modified for NRL 4.4BSD IPv6 release.
 * 07/31/96 bgp
 *
 * Search for "#ifdef NRL" to find the changes.
 */

/*
 * Modified for Linux IPv6 by Pedro Roque <roque@di.fc.ul.pt>
 * 31/07/1996
 *
 * As ICMP error messages for IPv6 now include more than 8 bytes
 * UDP datagrams are now sent via an UDP socket instead of magic
 * RAW socket tricks.
 *
 * Original copyright and comments left intact. They might not
 * match the code anymore.
 */

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*/
/* Mode: C;
* ifenslave.c: Configure network interfaces for parallel routing.
*
* This program controls the Linux implementation of running multiple
* network interfaces in parallel.
*
* Author: Donald Becker <becker@cesdis.gsfc.nasa.gov>
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*
* Changes :
* - 2000/10/02 Willy Tarreau <willy at meta-x.org> :
* - few fixes. Master's MAC address is now correctly taken from
* the first device when not previously set ;
* - detach support : call BOND_RELEASE to detach an enslaved interface.
* - give a mini-howto from command-line help : # ifenslave -h
*
* - 2001/02/16 Chad N. Tindel <ctindel at ieee dot org> :
* - Master is now brought down before setting the MAC address. In
* the 2.4 kernel you can't change the MAC address while the device is
* up because you get EBUSY.
*
* - 2001/09/13 Takao Indoh <indou dot takao at jp dot fujitsu dot com>
* - Added the ability to change the active interface on a mode 1 bond
* at runtime.
*
* - 2001/10/23 Chad N. Tindel <ctindel at ieee dot org> :
* - No longer set the MAC address of the master. The bond device will
* take care of this itself
* - Try the SIOC*** versions of the bonding ioctls before using the
* old versions
* - 2002/02/18 Erik Habbinga <erik_habbinga @ hp dot com> :
* - ifr2.ifr_flags was not initialized in the hwaddr_notset case,
* SIOCGIFFLAGS now called before hwaddr_notset test
*

```

- * - 2002/10/31 Tony Cureington <tony.cureington * hp_com> :
- * - If the master does not have a hardware address when the first slave
- * is enslaved, the master is assigned the hardware address of that
- * slave - there is a comment in bonding.c stating "ifenslave takes
- * care of this now." This corrects the problem of slaves having
- * different hardware addresses in active-backup mode when
- * multiple interfaces are specified on a single ifenslave command
- * (ifenslave bond0 eth0 eth1).
- *
- * - 2003/03/18 - Tsippy Mendelson <tsippy.mendelson at intel dot com> and
- * Shmulik Hen <shmulik.hen at intel dot com>
- * - Moved setting the slave's mac address and opening it, from
- * the application to the driver. This enables support of modes
- * that need to use the unique mac address of each slave.
- * The driver also takes care of closing the slave and restoring its
- * original mac address upon release.
- * In addition, block possibility of enslaving before the master is up.
- * This prevents putting the system in an undefined state.
- *
- * - 2003/05/01 - Amir Noam <amir.noam at intel dot com>
- * - Added ABI version control to restore compatibility between
- * new/old ifenslave and new/old bonding.
- * - Prevent adding an adapter that is already a slave.
- * Fixes the problem of stalling the transmission and leaving
- * the slave in a down state.
- *
- * - 2003/05/01 - Shmulik Hen <shmulik.hen at intel dot com>
- * - Prevent enslaving if the bond device is down.
- * Fixes the problem of leaving the system in unstable state and
- * halting when trying to remove the module.
- * - Close socket on all abnormal exists.
- * - Add versioning scheme that follows that of the bonding driver.
- * current version is 1.0.0 as a base line.
- *
- * - 2003/05/22 - Jay Vosburgh <fubar at us dot ibm dot com>
- * - ifenslave -c was broken; it's now fixed
- * - Fixed problem with routes vanishing from master during enslave
- * processing.
- *
- * - 2003/05/27 - Amir Noam <amir.noam at intel dot com>
- * - Fix backward compatibility issues:
- * For drivers not using ABI versions, slave was set down while
- * it should be left up before enslaving.
- * Also, master was not set down and the default set_mac_address()
- * would fail and generate an error message in the system log.
- * - For opt_c: slave should not be set to the master's setting
- * while it is running. It was already set during enslave. To
- * simplify things, it is now handled separately.

*
* - 2003/12/01 - Shmulik Hen <shmulik.hen at intel dot com>
* - Code cleanup and style changes
* set version to 1.1.0
*/

1.132 irqbalance 0.55 :15.el5

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```
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 *
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 */

1.134 iscsi-initiator-utils_Broadcom_driver

6.2.0.872 :13.e15

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1.139 jackrabbit-text-extractors 1.4

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1.140 Jackson 1.5.5

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1.141 jackson-all 1.9 :3

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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.

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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.

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1.142 Jakarta-ORO 2.0.8

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4.2 :4

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1.155 Joda-Time 1.6.2

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1.156 jpegsrc v6b

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README for release 6b of 27-Mar-1998

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DOCUMENTATION ROADMAP

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This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:

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

Programmer and internal documentation:

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

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

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

OVERVIEW

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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing

"real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

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

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

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

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

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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.

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REFERENCES

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

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", *Communications of the ACM*, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in *IEEE Trans. Consumer Electronics*)

omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

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

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

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

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

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

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

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

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

ARCHIVE LOCATIONS

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The "official" archive site for this software is [ftp.uu.net](ftp://ftp.uu.net) (Internet address 192.48.96.9). The most recent released version can always be found there in directory [graphics/jpeg](ftp://ftp.uu.net/graphics/jpeg/). This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrvc.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](ftp://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](ftp://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/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

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

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

RELATED SOFTWARE

=====

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS 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 PBPLUS/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.

1.157 jQuery 1.10.1

1.157.1 Available under license :

```
/*!  
 * jQuery JavaScript Library v1.10.1  
 * http://jquery.com/  
 *  
 * Includes Sizzle.js  
 * http://sizzlejs.com/  
 *  
 * Copyright 2005, 2013 jQuery Foundation, Inc. and other contributors  
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 * http://jquery.org/license  
 *  
 * Date: 2013-05-30T21:49Z  
 */
```

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1.158 jQuery Form Plugin 3.36.0-2013.06.16

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```
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 * version: 3.36.0-2013.06.16
 * @requires jQuery v1.5 or later
 * Copyright (c) 2013 M. Alsup
 * Examples and documentation at: http://malsup.com/jquery/form/
 * Project repository: https://github.com/malsup/form
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<signature of Ty Coon>, 1 April 1989  
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1.159 jQuery UI 1.10.3

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1.160 jQuery-1.7.1 1.7.1

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1.163 jquery.i18n.properties 1.0.9

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1.165 JSON-Simple 1.1

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1.166 jsoup 1.6.2

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1.167 jsr311-api 1.1 :1

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jsr311-api-1.1.1-sources-4/javax/ws/rs/core/GenericEntity.java:

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setfont.c setfont.8 mapscrn.c mapscrn.8

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getfd.c getkeycodes.c getunimap.c kbd_mode.c loadunimap.c

psffontop.c psfxtable.c resizecons.c screendump.c setkeycodes.c

setleds.c setmetamode.c setvesablank.c showconsolefont.c

spawn_console.c spawn_login.c

chvt.1 deallocvt.1 kbd_mode.1 setleds.1 setmetamode.1

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Version 2, June 1991

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the program

'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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1.171 kernel 2.6.18 :411.e15

1.171.1 Available under license :

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 about 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 an 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
cc: 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

Date: Thu, 17 Oct 2002 10:08:19 -0700 (PDT)
From: Linus Torvalds <torvalds@transmeta.com>
To: Christoph Hellwig
Cc: <linux-kernel@vger.kernel.org>
Subject: Re: [PATCH] make LSM register functions GPLOnly exports
In-Reply-To: <20021017175403.A32516@infradead.org>
Message-ID: <Pine.LNX.4.44.0210170958340.6739-100000@home.transmeta.com>

Note that if this fight ends up being a major issue, I'm just going to remove LSM and let the security vendors do their own thing. So far

- 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 the 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

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 something 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-contained 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 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 construed 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 doing 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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To do so, attach the following notices to the program. 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.

```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
Gnomovision version 69, Copyright (C) 19yy name of author  
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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Version 2, June 1991

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

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AverMedia fix and more flexible card recognition

Alan Cox <alan@redhat.com>

Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch

Hardware I2C

Gerd Knorr <krxel@cs.tu-berlin.de>

Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>

Ragnar Hojland Espinosa <ragnar@macula.net>

ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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for the initial saa7146 driver and it's recent overhaul

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for his work on the initial Linux DVB driver

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Ralph Metzler <rjkm@metzlerbros.de>

for their continuing work on the DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>

for CyberLogin for Linux which allows logging onto EON

(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>

for patching the cable card decoder driver

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for the lgdt330x frontend driver, and various bugfixes

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for maintaining v4l/dvb inter-tree dependencies

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for the nxt2002 frontend driver

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

FlashPoint Driver Developer's Kit
Version 1.0

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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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```
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```

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```
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```

```
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```

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1.172 kernel 2.6.18-419.el5

1.172.1 Available under license :

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Version 2, June 1991

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That's all there is to it!
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AverMedia fix and more flexible card recognition

Alan Cox <alan@redhat.com>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

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Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for adding support for Typhoon DVB-S budget card

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for tuning/DiSEqC support for the DEC 3000-s

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for the nxt2002 frontend driver

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for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>

for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

FlashPoint Driver Developer's Kit

Version 1.0

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QLogic Linux Fibre Channel HBA Driver

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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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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 about being ridiculous. It's about honoring people's 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 licenser 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 an 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 the 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
cc: 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

Date: Thu, 17 Oct 2002 10:08:19 -0700 (PDT)
From: Linus Torvalds <torvalds@transmeta.com>
To: Christoph Hellwig
Cc: <linux-kernel@vger.kernel.org>
Subject: Re: [PATCH] make LSM register functions GPLonly exports
In-Reply-To: <20021017175403.A32516@infradead.org>
Message-ID: <Pine.LNX.4.44.0210170958340.6739-100000@home.transmeta.com>

Note that if this fight ends up being a major issue, I'm just going to remove LSM and let the security vendors do their own thing. So far

- 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 the 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

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 something 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-contained 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 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 construed 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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To do so, attach the following notices to the program. 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.

```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```

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```
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```

```
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Ty Coon, President of Vice
```

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Ty Coon, President of Vice

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Contributors to bttv:

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AverMedia fix and more flexible card recognition

Alan Cox <alan@redhat.com>

Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch

Hardware I2C

Gerd Knorr <kxaxel@cs.tu-berlin.de>

Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>

Ragnar Hojland Espinosa <ragnar@macula.net>

ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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for the initial saa7146 driver and it's recent overhaul

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for their continuing work on the DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacompt.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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for many bugfixes

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for the IR code for the ttusb-dec driver

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for the nxt2002 frontend driver

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for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a

single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a line to the DVB mailing list)

FlashPoint Driver Developer's Kit
Version 1.0

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QLogic Linux Fibre Channel HBA Driver

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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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```
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```

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.173 keyutils 1.2 :1.e15

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```

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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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1.174 keyutils - libs 1.2 :1.e15

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Version 2.1, February 1999

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lib/gss_mechs/mech_krb5/et/kdb5_err.c
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Less

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1.181 libart_lgpl 2.3.17 :4

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1.182 libcap 1.10 :26

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1.183 libdaemon 0.10 :5.e15

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1.184 libdrm 2.0.2 :1.1

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1.185 libevent 1.4.13 :1

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1.186 libgcrypt 1.4.4 :5.e15

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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Version 2.1, February 1999

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

/* This module is part of the cryptlib continuously seeded pseudorandom number generator. For usage conditions, see lib_rand.c

[Here is the notice from lib_rand.c:]

This module and the misc/rnd*.c modules represent the cryptlib continuously seeded pseudorandom number generator (CSPRNG) as described in my 1998 Usenix Security Symposium paper "The generation of random numbers for cryptographic purposes".

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Although not required under the terms of the LGPL, it would still be nice if you could make any changes available to the author to allow a consistent code base to be maintained. */

/* rndw32.c - W32 entropy gatherer

* Copyright (C) 1999, 2000, 2002, 2003, 2007 Free Software Foundation, Inc.

* Copyright Peter Gutmann, Matt Thomlinson and Blake Coverett 1996-2006

*

* This file is part of Libgcrypt.

*

* The code here is based on code from Cryptlib 3.0 beta by Peter Gutmann.

* Source file misc/rndwin32.c "Win32 Randomness-Gathering Code" with this

* copyright notice:

*

* This module is part of the cryptlib continuously seeded pseudorandom

* number generator. For usage conditions, see lib_rand.c

*

* [Here is the notice from lib_rand.c, which is now called dev_sys.c]

*

* This module and the misc/rnd*.c modules represent the cryptlib

* continuously seeded pseudorandom number generator (CSPRNG) as described in

* my 1998 Usenix Security Symposium paper "The generation of random numbers

* for cryptographic purposes".

*

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1.187 libgpg-error 1.4 :2

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1.188 libgssapi 0.10 :2

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1.189 libhugetlbfs 1.3 :8.2.e15

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1.190 libICE 1.0.1 :2.1

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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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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the

Library.

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.
- 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.

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

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

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

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

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

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

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

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

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

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

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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:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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END OF TERMS AND CONDITIONS

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.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

1.192 libIDL 0.8.7 :1.fc6

1.192.1 Available under license :

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Version 2, June 1991

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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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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide

complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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.

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

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

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

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

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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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.
- 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.)

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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.

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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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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.

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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.

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1.193 libidn 0.6.5 :1.1

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1.194 libjpeg 6b :38

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The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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DOCUMENTATION ROADMAP

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This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:

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

Programmer and internal documentation:

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

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

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

OVERVIEW

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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not

exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

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

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

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

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

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ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

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

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

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

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REFERENCES

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

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

and it may not be used for commercial purposes.

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

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

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

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

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

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

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text

version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

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

ARCHIVE LOCATIONS

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The "official" archive site for this software is [ftp.uu.net](ftp://ftp.uu.net) (Internet address 192.48.96.9). The most recent released version can always be found there in directory [graphics/jpeg](ftp://ftp.uu.net/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](ftp://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](ftp://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/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

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

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

RELATED SOFTWARE

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS 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 PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

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

FILE FORMAT WARS

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

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

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear

whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

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

TO DO

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

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

As always, speeding things up is of great interest.

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

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```
printf("%s",png_get_copyright(NULL));
```

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

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April 23, 2006

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1.196 libsemanage 1.9.1 :4.4.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.

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

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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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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.

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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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1.198 libSM 1.0.1 :3.1

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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.)

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.

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

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's

free use or not licensed at all.

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

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

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

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

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

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

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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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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.

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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

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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.

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.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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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(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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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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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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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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- 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

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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.

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1.204 libXau 1.0.1 :3.1

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1.205 libXcursor 1.1.7 :1.2

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# distribute this file as part of a program that contains a  
# configuration script generated by Autoconf, you may include it under  
# the same distribution terms that you use for the rest of that program.
```

```
# Originally written by Per Bothner <per@bothner.com>.
```

```
# Please send patches to <config-patches@gnu.org>. Submit a context  
# diff and a properly formatted ChangeLog entry.
```

```
#
```

```
# This script attempts to guess a canonical system name similar to  
# config.sub. If it succeeds, it prints the system name on stdout, and
```

```
# exits with 0. Otherwise, it exits with 1.  
#  
# The plan is that this can be called by configure scripts if you  
# don't specify an explicit build system type.
```

1.206 libXdmcp 1.0.1 :2.1

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1.208 libXfixes 4.0.1 :2.1

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1.209 libXft 2.1.10 :1.1

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1.210 libXi 1.0.1 :4.e15_4

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1.212 libxml2 2.6.26 :2.1.25.e15_11

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1.213 libXpm 3.5.5 :3

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1.214 libXrandr 1.1.1 :3.3

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* lockdev.c

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* this source program is part of the libblockdev library.

*

*

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 *
 *
 * This library provides a stable way to lock devices on a Linux or
 * Unix system, both following FSSTND 1.2 and SVr4 device locking
 * methods, and it's built to be portable and to avoid conflicts
 * with other programs.
 * It is highly recommended that all programs that need to lock a
 * device (or test if it is locked, call the functions defined in
 * the public interface of this library.
 *
 * To use the library on other Operating Systems, with different
 * lock file name conventions, simply add the proper sprintf in the
 * conditional statement at the beginning of this source.
 /*
 * ttylock.h
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*
* This header file provides an alternative API to the services of
* the lockdev library, the same API implemented by AIX.
* It is intended as a quick help for any program originally
* designed for the AIX that wants to move to lockdev.
*
*/

1.218 log4j 1.2.13

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1.219 logrotate 3.7.4 :12

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/* hacked up by uo to get around automake-1.3-problem */

/*\$Id: ansi2knr.c,v 1.5 1998/12/27 16:09:19 uwe Exp \$*/

/* Convert ANSI C function definitions to K&R ("traditional C") syntax */

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.\" Modified 1993-07-21 Rik Faith (faith@cs.unc.edu)
.\" Modified 1994-08-21 by Michael Chastain (mec@shell.portal.com):
.\" Removed note about old kernel (pre-1.1.44) using wrong id on path.
.\" Modified 1996-03-18 by Martin Schulze (joey@infodrom.north.de):
.\" Stated more clearly how it behaves with symbolic links.
.\" Added correction due to Nick Duffek (nsd@bbc.com), aeb, 960426
.\" Modified 1996-09-07 by Michael Haardt:
.\" Restrictions for NFS
.\" Modified 1997-09-09 by Joseph S. Myers <jsm28@cam.ac.uk>
.\" Modified 1998-01-13 by Michael Haardt:
.\" Using access is often insecure
.\" Modified 2001-10-16 by aeb
.\" Modified 2002-04-23 by Roger Luethi <rl@hellgate.ch>
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.\n Written 11 June 1995 by Andries Brouwer <aeb@cwi.nl>

.\n Modified 22 July 1995 by Michael Chastain <mec@duracef.shout.net>:

.\n In 1.3.X, returns only one entry each time; return value i

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```
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1.234 mcelog 0.9pre :1.32.e15

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```
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```

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1.237 mcstrans 0.2.11 :3.e15

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```
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1.238 memtest86+ 1.65 :4.1

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Streaming API for XML (JSR-173) Specification

Reference Implementation

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```
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```

```
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1.244 minicom 2.1 :3

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1.249 module-init-tools 3.3

:0.pre3.1.60.el5_5.1

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1.250 moment.js 2.5.1

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1.253 mtr 0.71 :3.1

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The specification of DOM Level 3's various parts is at:
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The specification of DOM Level 1's various parts is at:
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Links to all available W3C DOM Java Bindings can be found at:
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The actual classes of The Simple API for CSS (SAC) came from:
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The actual DOM Java Language Binding classes for SMIL came from:
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```

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1.256 nano 1.3.12 :1.1

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1.257 nc 1.84 :10.fc6

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1.258 ncurses 5.5 :24.20060715

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1.259 net-snmp 5.3.2.2 :25.e15_11

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1.260 net-tools 1.60 :82.e15

1.260.1 Available under license :

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Version 2, June 1991

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<one line to give the program's name and a brief idea of what it does.>

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```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
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under certain conditions; type 'show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.261 newt 0.52.2 :15.e15

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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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(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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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

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
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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.

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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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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.

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```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

That's all there is to it!

```
#  
# 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
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```

1.267 ntp 4.2.2p1 :18.el5_11

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jpg "Clone me," says Dolly sheepishly

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2. [2]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
3. [3]Viraj Bais <vbais@mailman1.intel.com> and [4]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
4. [5]Michael Barone <michael,barone@lmco.com> GPSVME fixes
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6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
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8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
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10. [11]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
11. [12]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
12. [13]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
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14. [15]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
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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 <dkatz@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
31. [34]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
32. [35]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
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35. [38]Tom Moore <tmoore@fievel.daytonoh.ncr.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 Sánchez <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@unipress.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
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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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55. mailto:%20Ulrich.Windl@rz.uni-regensburg.de

Replied: Fri, 16 Feb 2001 14:12:54 -0500

Replied: "Darren Reed <darrenr@reed.wattle.id.au> "

Received: from [139.134.6.79] by whimsy.udel.edu id aa15476;
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([139.134.4.52]) by mailin6.bigpond.com (Netscape Messaging
Server 4.15) with SMTP id G8UFIB00.4QI for
<stenn@whimsy.udel.edu>; Fri, 16 Feb 2001 19:25:23 +1000

Received: from CPE-61-9-164-110.vic.bigpond.net.au ([61.9.164.110]) by mail5.bigpond.com (Claudes-Retiring-MailRouter V2.9c 9/11963672); 16 Feb 2001 19:20:45

Received: (from root@localhost)
by CPE-61-9-164-106.vic.bigpond.net.au (8.11.0/8.11.0) id f1G92GC29158
for <stenn@whimsy.udel.edu>; Fri, 16 Feb 2001 20:02:16 +1100

From: Darren Reed <darrenr@reed.wattle.id.au>

Message-Id: <200102160901.UAA23657@avalon.reed.wattle.id.au>

Subject: Re: arlib?

In-Reply-To: <901.982219274@whimsy.udel.edu> from Harlan Stenn at "Feb 15, 1 01:41:14 am"

To: Harlan Stenn <stenn@whimsy.udel.edu>

Date: Fri, 16 Feb 2001 20:01:46 +1100

X-Mailer: ELM [version 2.4ME+ PL37 (25)]

MIME-Version: 1.0

Content-Type: text/plain; charset=US-ASCII

Content-Transfer-Encoding: 7bit

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

> Darren,

>

> I'm looking for an async resolver library that I can use with NTP.

>

> I noticed your code in the contrib/ subdir of later bind8 distribution

> and I noticed the Copyright notice in arlib.c:

>

> * arlib.c (C)copyright 1993 Darren Reed. All rights reserved.

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> * shape or form. The author takes no responsibility for any damage or loss

- > * of property which results from the use of this software.
- >
- > 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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```
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```

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It consists of a numactl program to run
other programs with a specific NUMA policy and a libnuma shared library
```

("NUMA API") to set NUMA policy in applications.

The libnuma binary interface is supposed to stay binary compatible. Incompatible changes will use new symbol version numbers.

In addition there are various test and utility programs, like numastat to display NUMA allocation statistics and memhog.

In test there is a small regression test suite.

Note that regress assumes a unloaded machine with memory free on each node. Otherwise you will get spurious failures in the non strict policies (prefered, interleave)

See the manpages numactl.8 and numa.3 for details.

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numademo links with a library derived from the C version of STREAM by John D. McCalpin and Joe R. Zagar for one sub benchmark. See stream_lib.c for the license. In particular when you publish numademo output you might need to pay attention there or filter out the STREAM results.

It also uses a public domain Mersenne Twister implementation from Michael Brundage.

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Version 2, June 1991

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Version 2.1, February 1999

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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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1.276 opensaml 1.1

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1.280 pam 0.99.6.2 :6.el5_5.2

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1.281 pam_passwdqc 1.0.2 :1.2.2

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1.282 pam_smb 1.1.7 :7.2.1

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Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. 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.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
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```

```
You should have received a copy of the GNU General Public License  
along with this program; if not, write to the Free Software  
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
```

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.283 pango 1.14.9 :8.e15_7.3

1.283.1 Available under license :

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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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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:

- 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.
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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.

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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

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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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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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- 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.
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13 March 2006

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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.
```

1.285 passwd 0.73 :2

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1.287 pax 3.4 :2.e15

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1.288 pciutils 3.1.7 :5.el5

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1.289 pcre 6.6 :6.e15_6.1

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Version 1, February 1989

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To do so, attach the following notices to the program. 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.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes  
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

That's all there is to it!

1.292 perl-BSD-Resource 1.28 :1.fc6.1

1.292.1 Available under license :

```
# Copyright (c) 1995-2004 Jarkko Hietaniemi. All rights reserved.  
# This program is free software; you can redistribute it and/or  
# modify it under the same terms as Perl itself.  
#  
Artistic License 1.0
```

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1.293 perl-Compress-Zlib 1.42 :1.fc6

1.293.1 Available under license :

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1.294 perl-Config-Properties 1.71 :1

1.294.1 Available under license :

name: perl-Config-Properties
summary: Config-Properties - Read and write property files
version: 1.71
release: 1
vendor: to Salvador FandiEntildeo <sfandino@yahoo.com,>
packager: Arix International <cpan2rpm@arix.com>
license: Artistic
group: Applications/CPAN
url: <http://www.cpan.org>
buildroot: % {_tmppath}/% {name}-% {version}-% (id -u -n)
buildarch: noarch
prefix: %(echo % {_prefix})
source: <http://search.cpan.org//CPAN/authors/id/S/SA/SALVA/Config-Properties-1.71.tar.gz>
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1.295 perl-Data-Validate-IP 0.11 :1

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name: perl-Data-Validate-IP
summary: Data-Validate-IP - ipv4 and ipv6 validation methods
version: 0.11
release: 1
vendor: Neil Neely <neil@neely.cx>
packager: Arix International <cpan2rpm@arix.com>
license: Artistic
group: Applications/CPAN
url: <http://www.cpan.org>
buildroot: % {_tmppath}/% {name}-% {version}-% (id -u -n)
buildarch: noarch

prefix: %(echo % {_prefix})

source: <http://search.cpan.org//CPAN/authors/id/N/NE/NEELY/Data-Validate-IP-0.11.tar.gz>

1.296 perl-DBD-MySQL 3.0007 :2.e15

1.296.1 Available under license :

```
/*
 * DBD::mysql - DBI driver for the mysql database
 *
 * Copyright (c) 2005    Patrick Galbraith
 * Copyright (c) 2003    Rudolf Lippan
 * Copyright (c) 1997-2003 Jochen Wiedmann
 *
 * You may distribute this under the terms of either the GNU General Public
 * License or the Artistic License, as specified in the Perl README file.
 *
 * $Id: dbdimp.c 6506 2006-06-14 19:05:50Z capttofu $
 */
```

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1.297 perl-DBI 1.52 :2.e15

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1.298 perl-Expect 1.20 :1

1.298.1 Available under license :

```
# Original author: Author: Don Libes, NIST (tcl/expect)
# Date written: December 5, 1991
# Date last edited: October 19, 1994
# Version: 2.11
#
```

Ported to Perl Expect module by: Lee

name: perl-Expect
summary: Expect - Perl module
version: 1.20
release: 1
vendor: rgiersig@cpan.org
packager: Arix International <cpan2rpm@arix.com>
license: Artistic
group: Applications/CPAN
url: <http://www.cpan.org>
buildroot: % {_tmppath}/% {name}-% {version}-%(id -u -n)
buildarch: noarch
prefix: %(echo % {_prefix})
source: <http://search.cpan.org//CPAN/authors/id/R/RG/RGIERSIG/Expect-1.20.tar.gz>
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1.299 perl-HTML-Parser 3.55 :1.fc6

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<one line to give the program's name and a brief idea of what it does.>

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

That's all there is to it!

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1.300 perl-HTML-Tagset 3.10 :2.1.1

1.300.1 Available under license :

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1.301 perl-Image-ExifTool 7.21 :1.rf

1.301.1 Available under license :

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Summary: Read and write meta information in images

Name: perl-Image-ExifTool

Version: 7.21

Release: 1.rf

License: Artistic/GPL

Group: Applications/CPAN

URL: <http://search.cpan.org/dist/Image-ExifTool/>

1.302 perl-IO-String 1.08 :1.1.1

1.302.1 Available under license :

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. 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.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 1, or (at your option)  
any later version.
```

```
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License  
along with this program; if not, write to the Free Software  
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA 02110-1301 USA
```

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author
```

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

1.303 perl-IO-Tty 1.08 :1

1.303.1 Available under license :

name: perl-IO-Tty
summary: IO-Tty - Pseudo ttys and constants
version: 1.08
release: 1
vendor: Roland Giersig <RGiersig@cpan.org>
packager: Arix International <cpan2rpm@arix.com>
license: Artistic
group: Applications/CPAN
url: <http://www.cpan.org>
buildroot: % {_tmppath} /% { name } -% { version } -% { id -u -n }
buildarch: x86_64
prefix: %(echo % {_prefix})
source: <http://search.cpan.org//CPAN/authors/id/R/RG/RGIERSIG/IO-Tty-1.08.tar.gz>
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The End

1.304 perl-libwww-perl 5.805 :1.1.1

1.304.1 Available under license :

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" 1995 Martijn Koster. All rights reserved.

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Enjoy!

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1.305 perl-Net-Netmask 1.9015 :1

1.305.1 Available under license :

```
name: perl-Net-Netmask
summary: Net-Netmask - Understand and manipulate IP netmaks
version: 1.9015
release: 1
vendor: David Muir Sharnoff <muir@idiom.com>
packager: Arix International <cpan2rpm@arix.com>
license: Artistic
group: Applications/CPAN
url: http://www.cpan.org
buildroot: % {_tmppath}/% {name }-% {version }-%(id -u -n)
buildarch: noarch
prefix: %(echo % {_prefix })
source: http://search.cpan.org//CPAN/authors/id/M/MU/MUIR/modules/Net-Netmask-1.9015.tar.gz
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```

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1.306 perl-Net-SSH-Expect 1.09 :1

1.306.1 Available under license :

Net-SSH-Expect

=====

This module is being used by people worldwide and is having a good acceptance. Read the documentation on CPAN to see how you can use this module.

INSTALLATION

To install this module type the following:

```
perl Makefile.PL
make
make test
make install
```

DEPENDENCIES

This module requires these other modules and libraries:

Expect.pm

BUGS

If you find any bug you can use the bug reporting tool available on CPAN website. I'll evaluate each bug and fix as soon as I can.

COPYRIGHT AND LICENCE

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1.307 perl-Number-Bytes-Human 0.07 :1

1.307.1 Available under license :

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1.308 perl-Sys-HostIP 1.81 :1

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Version 1, February 1989

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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Gnomovision version 69, Copyright (C) 19xx name of author
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
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school, if any, to sign a "copyright disclaimer" for the program, if
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Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.309 perl-Term-Menu 0.09 :1

1.309.1 Available under license :

name: perl-Term-Menu

summary: Term-Menu - Perl extension for asking questions and printing menus at the terminal

version: 0.09

release: 1

vendor: Sjors Gielen <sjorsgielen@gmail.com>

packager: Arix International <cpan2rpm@arix.com>

license: Artistic
group: Applications/CPAN
url: <http://www.cpan.org>
buildroot: % {_tmppath}/% {name}-% {version}-%(id -u -n)
buildarch: noarch
prefix: %(echo % {_prefix})
source: <http://search.cpan.org//CPAN/authors/id/D/DA/DAZJORZ/Term-Menu-0.09.tar.gz>
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1.310 perl-TermReadKey 2.14 :1

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1.311 perl-URI 1.35 :3

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1.312 perl-XML-Parser 2.34 :6.1.2.2.1

1.312.1 Available under license :

XML::Parser Version 2.31

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This is a Perl extension interface to James Clark's XML parser, expat. It requires at least version 5.004 of perl and it requires that you have release 1.95.0 or greater of expat installed. You can download expat from:

<http://sourceforge.net/projects/expat/>

The documentation for this extension can be found in pod format at the end of the files Parser.pm and Expat/Expat.pm. The perldoc program, provided with the perl distribution, can be used to view this documentation.

This was modified from the original XML::Parser created by Larry Wall.

To configure this module, cd to the directory that contains this README file and type the following:

```
perl Makefile.PL
```

Alternatively, if you plan to install XML::Parser somewhere other than your system's perl library directory. You can type something like this:

```
perl Makefile.PL PREFIX=/home/me/perl INSTALLDIRS=perl
```

Then to build you run make.

```
make
```

You can then test the module by typing:

make test

There are some sample utilities in the samples directory along with an xml form of the XML specification to test them on. You may need to change the '#' line at the top of these utilities to what is appropriate for your system. If you're going to play around with them prior to installing the module, you would need to add the blib paths to your perl search path, like this (assuming your current directory is samples):

```
perl -I../blib/lib -I../blib/arch xmlcomments REC-xml-19980210.xml
```

or set your PERLLIB environment variable.

If you have write access to the installation directories, you may then install by typing:

```
make install
```

Discussion on features and bugs of this software and general discussion on topics relating to perl and XML takes place on the perl-xml mailing list, to which you can subscribe by sending mail to:

```
subscribe-perl-xml@lyris.activestate.com
```

Differences from Version 2.30

=====

Version 2.31 is a minor bugfix release to allow XML::Parser to work under the forthcoming Perl 5.8.0 release. There are no functional changes.

Differences from Version 2.29

=====

Expat is no longer included with this package. It must now be already installed on your system as a library. You may download the library version of expat from <http://sourceforge.net/projects/expat/>. After downloading, expat must be configured (an automatic script does this), built and installed.

A workaround has been provided for those people who couldn't compile Expat.xs with a perl 5.6.0 with USE_5005THREADS on.

A bug that prevented IO::Handler from being read by the parse method has been fixed.

Fixed a bug in reading external entities with incremental parsing.

Clark Cooper
coopercc@netheaven.com
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1.313 perl-XML-Simple 2.14 :4.fc6

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1.314 persistence-api-1.0.2 1.0.2

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1.317 pm-utils 0.99.3 :10.e15

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vbetool-0.1

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1.320 postfix 2.3.3 :2.3.e15_6

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Included for the use of the fix_strcasecmp.c module which works around a Solaris problem.

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```

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1.324 procmail 3.22 :17.1

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1.326 procps_lgpl 3.2.7 :18.e15

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1.327 protobuf 2.3.0

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1.328 psacct 6.3.2 :44.e15

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1.330 psutils 1.17 :26.1

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fixpspps.man  fixpspps.pl fixscribeps.man fixscribeps.pl
fixtpps.man   fixtpps.pl  fixwfwps.man  fixwfwps.pl
fixwpps.man   fixwpps.pl  fixwwps.man   fixwwps.pl
getafm        getafm.man  includeres.man includeres.pl
maketext      patchlev.h  psbook.c      psbook.man
pserror.c     pserror.h   psmerge.man   psmerge.pl
psnup.c       psnup.man   psresize.c    psresize.man
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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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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.

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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.

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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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(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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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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1.333 python 2.4.3 :56.e15

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
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1.334 python-elementtree 1.2.6 :5

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2.0	1.6	2000	BeOpen.com	no
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
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1.336 python-libs 2.4.3 :56.el5

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes

2.4.1	2.4.1	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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1.337 python-sqlite 1.1.7 :1.2.1

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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
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1.341 r-kiosk 0.9.0

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1.344 readahead 1.3 :8.e15

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*

* \$Id: bt_research.c,v 11.40 2004/07/23 17:21:09 bostic Exp \$

*/

1.352 rsh 0.17 :40.e15_7.1

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1.353 rsync 3.0.6 :6.e15_11

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1.354 screen 4.0.3 :4.e15

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1.355 sed 4.1.5 :8.e15

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1.363 shadow-utils_scripts 4.0.17 :20.e15

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1.364 slang 2.0.6 :4.e15

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1.368 spring-framework 3.0.2.RELEASE

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1.369 Spring-security-acl 3.0.2

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1.370 spring-security-config 3.0.2 :(ipcentral variant)

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 * <p>
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 */
package org.springframework.security.authentication.encoding;

/**
 * Implementation of the MD4 message digest derived from the RSA Data Security, Inc, MD4 Message-Digest
 * Algorithm.
 *
 * @author Alan Stewart
 */
```

1.372 Spring-security-web 3.0.2

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1.380 sysfsutils 2.1.0 :1.e15

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```

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```

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1.383 sysstat 7.0.2 :11.e15

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```

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```
<signature of Ty Coon>, 1 April 1989
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 *
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 * @requires jQuery v1.2.3
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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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```

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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1.390 tcl 8.4.13 :6.e15

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1.391 tcp_wrappers 7.6 :40.7.e15

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```

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```

-----BEGIN PGP SIGNATURE-----

Version: 2.6.3i
Charset: noconv

iQCVAwUBOxo3X9yA8qbVMny5AQHT8wP9FZOtWxEM4SMj4Sj9QezMERz31n5fd0pC

jUDnyzmosOudM/iFlv6YfyR820aNvNNI+AdtgWYRPVHocVNOOrZcmu7IADO8hU//
v8BeBE0bdjeVmOQYRQfXgt3J2q0b8x8Q5a/LCLVLh8k6DFGg8AfEbLDQWhi1JiXC
0JsaB8crR3M=
=0AMW
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1.392 tcpdump 3.9.4 :15.e15

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1.393 tcsh 6.14 :17.e15_5.2

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1.394 telnet 0.17 :39.e15

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1.395 termcap 5.5 :1.20060701.1

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```
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 */
```

1.396 time 1.7 :27.2.2

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1.397 tmpwatch 2.9.7 :1.1.e15.5

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* Tweener

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*

* @author Zeh Fernando, Nate Chatellier, Arthur Debert, Francis Turmel

* @version 1.33.74

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1.409 utf8.js 2009-01-21

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```
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```

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```
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```

```
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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.

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1.412 vim 7.0.109 :7.e15

1.412.1 Available under license :

uganda.txt For Vim version 7.0. Last change: 2006 Jul 15

VIM REFERENCE MANUAL by Bram Moolenaar

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SUMMARY

iccf *ICCF*

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Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

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=====
Kibaale Children's Centre *kcc*

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

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

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have

to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

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

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

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

donate

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

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

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

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre is co-sponsored and inspected by World Vision, Save the Children Fund and

International Child Care Fund. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself in 1996, 1998, 2000, 2001 and 2003. The visit reports are on the ICCF web site.

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

The address of the centre is:

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

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See [|iccf|](#) for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be send to them to lower banking costs.

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

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

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

Holland: Transfer to the account of "Stichting ICCF Holland" in Venlo.

This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774

Germany: It is possible to make donations that allow for a tax return.

Check the ICCF web site for the latest information:
<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is

in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

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

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

<https://www.paypal.com/affil/pal=Bram%40iccf-holland.org>

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

Bram@iccf-holland.org

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

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL47 PSTB 0004 5487 74

under the name "stichting ICCF Holland", Venlo

If that doesn't work:

Rabobank Venlo, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Venlo

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

Address to send checks to:

stichting ICCF Holland

Bram Moolenaar

Molenstraat 2

2161 HP Lisse

The Netherlands

This address is expected to be valid for a long time. The address in Venlo will not be valid after June 2006.

vim:tw=78:ts=8:ft=help:norl:

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.414 wget 1.11.4 :3.el5_8.2

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Version 3, 29 June 2007

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*

* @projectDescription Advanced and extensible data dumping for Javascript.

* @version 1.0.0

* @author Ariel Flesler

* @link {<http://flesler.blogspot.com/2008/05/jsdump-pretty-dump-of-any-javascript.html>}

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/**
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 *
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 */
/*
 * Javascript Diff Algorithm
 * By John Resig (http://ejohn.org/)
 * Modified by Chu Alan "sprite"
 *
 * Released under the MIT license.
 *
 * More Info:
 * http://ejohn.org/projects/javascript-diff-algorithm/
 *
 * Usage: QUnit.diff(expected, actual)
 *
 * QUnit.diff( "the quick brown fox jumped over", "the quick fox jumps over" ) == "the quick <del>brown </del>
fox <del>jumped </del><ins>jumps </ins> over"
 */
```

1.420 Xstream 1.3

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```
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```
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1.422 yum-metadata-parser 1.1.2 :3.el5

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```

1.423 yum-utils 1.1.16 :21.e15

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```

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