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  - 1.269.1 Available under license
- 1.270 tftp 0.39 :3.el4**
  - 1.270.1 Available under license
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  - 1.271.1 Available under license
- 1.272 tmpwatch 2.9.1 :1.el4.1**
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## 1.10 annotations-api 6.0.20

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```
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```

```
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## 1.27 beecrypt 3.1.0 :6

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## 1.29 binutils 2.15.92.0.2 :25

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bzip2/libbzip2 version 1.0.2 of 30 December 2001

## 1.31 c3p0:JDBC DataSources/Resource Pools

### 0.9.1.2

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## 1.50 commons-beanutils 1.7.0

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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>
```

```
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it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or
```



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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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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.]

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Finally, any free program is threatened constantly by software

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

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

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

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

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

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

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

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(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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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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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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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.

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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 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.

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That's all there is to it!

f2c is a Fortran to C converter under development since 1990 by

David M. Gay (then AT&T Bell Labs, now Bell Labs, Lucent Technologies)

Stu Feldman (then at Bellcore, now at IBM)

Mark Maimone (Carnegie-Mellon University)

Norm Schryer (then AT&T Bell Labs, now AT&T Labs)

Please send bug reports to [dmg@research.bell-labs.com](mailto:dmg@research.bell-labs.com) .

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## 1.56 coreutils 5.2.1 :36.el4

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 * Rob Earhart
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## 1.61 DataTables 1.9.4

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## 1.63 DbUnit Framework 2.4.8

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Version 2.1, February 1999

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Theodore Ts'o  
15-Mar-2003

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## 1.75 eject 2.0.13 :11

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```

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If you develop a new program, and you want it to be of the greatest possible use to the public, 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) <year> <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) year 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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Version 2.1, February 1999

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

That's all there is to it!

## 1.88 gdb 7.0.1 :23.e15

### 1.88.1 Available under license :

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Version 3, 29 June 2007

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```
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```
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```
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## 1.90 glib 1.2.10 :15

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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.>  
Copyright (C) <year> <name of author>
```

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modify it under the terms of the GNU Lesser 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 GNU  
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```
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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.
```

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

That's all there is to it!

## 1.91 glib2 2.4.7 :1

## 1.91.1 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.]

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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

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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.

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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 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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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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# 1.92 glibc 2.3.4 :2.43

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## 1.93 glibc 2.3.4 :2.43.el4\_8.6

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```

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

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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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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".)

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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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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.)

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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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- 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.
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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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```

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```

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## 3.2.0.Final

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```
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## 1.141 json-lib 2.3

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## 1.142 jsr311-api 1.1.1

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## 1.144 juli 6.0.20

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# 1.145 kbd 1.12 :2.e14.5

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```
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## 1.146 kernel 2.6.9 :89.0.20.EL

### 1.146.1 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 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 Eeprom 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](http://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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```
/* 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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 \* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.  
 \*  
 \* M. Welsh, 6 July 1996  
 \*  
 \*  
 \*/

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[This is the first released version of the library GPL. It is  
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Preamble

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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.

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

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

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

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.

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## 1.153 libgpg-error 1.0 :1

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```
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## 1.156 libsepol 1.1.1 :2

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## 1.157 libtermcap 2.0.8 :46.1

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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 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

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

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

b) 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 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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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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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

## 1.159 libuser 0.52.5 :1.1.e14\_8.1

### 1.159.1 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.]

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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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(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.

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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

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

```
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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:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

## 1.160 libxml2 2.6.16 :12.7

## 1.160.1 Available under license :

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```

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Ty Coon, President of Vice
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## 1.172 mingetty 1.07 :3

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## 1.175 module-init-tools 3.1 :0.pre5.3.11

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## 1.181 net-tools 1.60 :39.e14

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## 1.183 newt 0.51.6 :10.el4\_8.1

### 1.183.1 Available under license :

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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.

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

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

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

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

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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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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,

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

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

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

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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.

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

That's all there is to it!

## 1.185 ntp 4.2.0.a.20040617 :8.e14\_8.1

### 1.185.1 Available under license :

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

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

Received: from [139.134.6.79] by whimsy.udel.edu id aa15476;

16 Feb 2001 04:21 EST

Received: from CPE-61-9-164-106.vic.bigpond.net.au  
([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)opyright 1993 Darren Reed. All rights reserved.  
> \* This file may not be distributed without the author's permission in any  
> \* 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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Version 2, June 1991

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```
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```
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```
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jpg "Clone me," says Dolly sheepishly

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The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

- 1. [1]Mark Andrews <mark\_andrews@isc.org> Leitch atomic clock controller
2. [2]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
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
5. [6]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca>IPv6 support
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
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
13. [14]Sven Dietrich <sven\_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
14. [15]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
15. [16]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
16. [17]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
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20. [21]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
21. [22]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
22. [23]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [24]<H.Lambermont@chello.nl> ntpsweep
23. [25]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
24. [26]Frank Kardel [27]<Frank.Kardel@informatik.uni-erlangen.de> PARSE <GENERIC> driver (14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup
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
33. [36]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
34. [37]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
35. [38]Tom Moore <tmoore@fivel.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 Snchez <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
  48. [52]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
  49. [53]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
  50. [54]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
  51. [55]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
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## 1.200 pcre 4.5 :4.e14\_6.6

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PCRE LICENCE

-----

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

Written by: Philip Hazel <ph10@cam.ac.uk>

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Cambridge, England. Phone: +44 1223 334714.

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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.

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.

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2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

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2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
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schema/trex.py

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test/domapi/ (and test/test\_pyxmldom.py)

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```
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```

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```
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```

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## 1.214 Rhino 1.6R2

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Version 1.1

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## 1.216 rsync 2.6.3 :1

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# 1.218 Saxon DOM 8.7

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```
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## 1.220 screen 4.0.2 :5

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## 1.223 servlet-api 2.5

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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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## 1.227 sg3\_utils 1.22 :3.1

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```

```
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## 1.228 shadow-utils 4.0.3 :66.RHEL4

## 1.228.1 Available under license :

[ \$Id: README,v 1.5 2000/10/16 21:34:39 kloczek Exp \$ ]

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Special thanks are due to Chip Rosenthal for his fine testing efforts; to Steve Simmons for his work in porting this code to BSD; and to Bill Kennedy for his contributions of LaserJet printer time and energies.

Also, thanks for Dennis L. Mumaugh for the initial shadow password information and to Tony Walton (olapw@olgb1.oliv.co.uk) for the System V Release 4 changes. Effort in porting to SunOS has been contributed by Dr. Michael Newberry (miken@cs.adfa.oz.au) and Micheal J. Miller, Jr. (mke@kaber.drain.com). Effort in porting to AT&T UNIX System V Release 4 has been provided by Andrew Herbert (andrew@werple.pub.uu.oz.au). Special thanks to Marek Michalkiewicz (marekm@i17linuxb.ists.pwr.wroc.pl) for taking over the Linux port of this software.

New for Release 3.3:

User-defined authentication has been added. This allows you to write programs to replace the password authentication method which uses the crypt() function.

The CrackLib password checking library is supported as of release 3.3.0. It allows you to perform pro-active password checking as each password is changed.

Warning:

The newuser command will be removed in a later release.

The libsec.a library will be removed at some point after version 3.3.3.

This software is described in the 3rd USENIX Security Symposium proceedings. These proceedings are available from

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There are special Makefile and config.h files for SVR4, SunOS 4.1, and Linux systems. If there is a major UNIX variant that you would like to see supported, please send working Makefile and config.h files and I will try to include them in the base distribution.

Note that there are MANY options. As distributed most options are turned on, which produces a really nice package. This is the system as used on some of the authors' machines. There are many options which may be selected at run time. You should refer to the login.5 manual page for more information regarding these options.

There are several files which you may have to replace. If your system has a lastlog.h file, you should replace the one which I provide with your system version. The pwd.h file that is produced by "make" must agree exactly with the system supplied version. You should re-arrange the fields or #define's until they match. The same is true for "shadow.h", if your system provides one. You may want to replace large portions of that file (or the entire file) with your system version. It is provided for those systems which do NOT provide /usr/include/shadow.h. If you do not have a the crypt() function in your library (perhaps because you are located outside the United States), you may wish to look into the UFC-crypt package which was posted to comp.sources.misc in volume 23, issues 97 and 98.

#### Login Defaults File -

This option selects the name of the file to read for the run-time configurable options. The default value for LOGINDEFS is "/etc/login.defs".

#### Shadow [ unreadable ] Password Files -

This option utilizes an alternate, non-readable file to contain the actual encrypted passwords. This is presumed to increase system security by increasing the difficulty with which system crackers obtain encrypted passwords.

Select this option by defining the SHADOWPWD macro.

This feature is optional, but only certain commands may be compiled with this option disabled.

#### Shadow Group Files -

This option utilizes an alternate, non-readable file to contain encrypted group passwords and group administrator information.

This feature allows one or more users to be defined as the administrators of a group for the purpose of adding or deleting members and changing the group password.

Select this option by defining the SHADOWGRP macro. You must also create an empty /etc/gshadow file. You must select the SHADOWPWD option if you select SHADOWGRP.

#### DBM Password Files -

This option utilizes the DBM database access routines to increase the performance of user name and ID lookups in the password file. You may select the NDBM database instead and have DBM-style access to all user information files.

Select this option by defining both the DBM and GETPWENT macros. The FGETPWENT macro must also be defined or the fgetpwent() library routine must be present.

#### Double Length Passwords -

This option extends the maximum length of a user password to 16 characters from eight.

Select this option by defining the DOUBLESIZE macro. Credit for this option is due Jonathan Bayer.

#### Password Aging -

This option includes code to perform password aging. Password aging is presumed to increase system security by forcing users to change passwords on a regular basis. The resolution on password age is in weeks for non-shadow password systems and in days otherwise.

Select this option by defining the AGING macro.

#### Syslog -

This option causes the code to log various errors or special conditions to the syslog daemon. The types of information that are logged security violations, changes to the user database, and program errors.

Select syslog processing by defining the USE\_SYSLOG macro.

#### Remote Login -

This option causes certain network login code to be inserted to enable the "rlogin" and "telnet" commands to work. To enable network logins, define the RLOGIN macro. If your <utmp.h> file includes a ut\_host member, you must also define the UT\_HOST macro. Note that SVR4 has a "utmpx" file to hold the ut\_host member, so UT\_HOST is not required.

#### Directory Reading Routines -

Three different macros are defined for opening and reading directories. They are DIR\_XENIX, DIR\_BSD, and DIR\_SYSV.



Refer to config.h for more details.

#### Library Configuration Macros -

The following macros define the functions which are present in your system library:

HAVE\_ULIMIT - Define if your UNIX supports ulimit()  
GETPWENT - Define if you want my GETPWENT(3) routines  
GETGRENENT - Define if you want my GETGRENENT(3) routines  
NEED\_AL64 - Define if library does not include a64l()  
NEED\_MKDIR - Define if system does not have mkdir()  
NEED\_RMDIR - Define if system does not have rmdir()  
NEED\_RENAME - Define if system does not have rename()  
NEED\_STRSTR - Define if library does not include strstr()

#### Password File Information -

The following macros define the fields which are present in your system password file. Because the system was compiled to use the password file in its original form, these macros must agree with the actual contents of the file.

BSD\_QUOTA - the pw\_quota field exists  
ATT\_AGE - the pw\_age field exists  
ATT\_COMMENT - the pw\_comment field exists

#### Signal Return Type -

Because different systems return different data types for the signal() system call, you must define SIGTYPE to be the data type your system uses. The default is "int", but "void" is another popular value.

SunOS 4.1.1 Notes: (mke@kaber.d.rain.com) Michael J. Miller Jr.

[ These notes were edited from the original. The standard Makefile and config.h have notes indicating the changes required for SunOS. Steve Allen at Lick has been working on cleaning up this platform. ]

You'll need to do the following to get the shadow password dist to compile on a sun 4.1.1 system.

If using csh, then type 'rehash'. cd to the /etc directory and type 'pwconv'. This will create two files, nshadow and npasswd. now type 'mkpasswd -f nshadow' and 'mkpasswd -f npasswd'. This will create the shadow password file.

Note: ftp will still use the old password file. Modified versions of ftpd are available, or you may modify the version of ftpd from any of the freely redistributable ftpd clones.

Note: If you run suns pcnfs, be aware that it will still be looking at the old password file as well. I may work out a patch for this, as I am fairly certain the stuff on the sun side comes with source.

Note: I have compiled this package with the standard c compiler and suns unbundled c compiler at an optimization level of 2 in both cases. Haven't tried gcc yet, so I don't know whether it works. Same goes for suns C++ compiler.

Note: Has been compiled on a sun 3/75 running sunos 4.1.1. Should compile fine on sun 4's running 4.1.1, and may compile on suns running 4.1. Have no idea what sort of success people will have that are running 4.03 and older versions.

## 1.229 slang 1.4.9 :8

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## 1.234 smackx 3.1.0

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## 1.238 Spring OSGi IO 1.2.1

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# 1.257 sysfsutils 1.2.0 :1

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Version 2.1, February 1999

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# 1.258 sysfsutils - cmd and tests 1.2.0 :1

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## 1.260 sysreport 1.3.15 :8

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## 1.262 SysVinit 2.85 :34.4

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## 1.263 tar 1.14 :13.el4\_8.1

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## 1.265 tcp\_wrappers 7.6 :37.9.e14

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# 1.275 tomcat-util 5.5.23

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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



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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

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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.

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END OF TERMS AND CONDITIONS

## 1.280 unzip 5.51 :10.el4

### 1.280.1 Available under license :

This is the README file for the 22 May 2004 public release of the Info-ZIP group's portable UnZip zipfile-extraction program (and related utilities).

unzip551.zip    portable UnZip, version 5.51, source code distribution  
unzip551.tar.Z    same as above, but compress'd tar format  
unzip551.tar.gz    same as above, but gzip'd tar format

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BEFORE YOU ASK: UnZip, its companion utility Zip, and related utilities and support files can be found in many places; read the file "WHERE" for further details. To contact the authors with suggestions, bug reports, or fixes, continue reading this file (README) and, if this is part of a source distribution, the file "ZipPorts" in the proginfo directory. Also in source distributions: read "BUGS" for a list of known bugs, non-bugs and possible future bugs; INSTALL for instructions on how to build UnZip; and "Contents" for a commented listing of all the distributed files.

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#### GENERAL INFO

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UnZip is an extraction utility for archives compressed in .zip format (also

called "zipfiles"). Although highly compatible both with PKWARE's PKZIP and PKUNZIP utilities for MS-DOS and with Info-ZIP's own Zip program, our primary objectives have been portability and non-MSDOS functionality.

This version of UnZip has been ported to a stupendous array of hardware--from micros to supercomputers--and operating systems: Unix (many flavors), VMS, OS/2 (including DLL version), Windows NT and Windows 95 (including DLL version), Windows CE (GUI version), Windows 3.x (including DLL version), MS-DOS, AmigaDOS, Atari TOS, Acorn RISC OS, BeOS, Macintosh (GUI version), SMS/QDOS, MVS, VM/CMS, FlexOS, Tandem NSK, Human68k (mostly), AOS/VS (partly) and TOPS-20 (partly). UnZip features not found in PKUNZIP include source code; default extraction of directory trees (with a switch to defeat this, rather than the reverse); system-specific extended file attributes; and, of course, the ability to run under most of your favorite operating systems. Plus, it's free. :-)

For source distributions, see the main Contents file for a list of what's included, and read INSTALL for instructions on compiling (including OS-specific comments). The individual operating systems' Contents files (for example, vms/Contents) may list important compilation info in addition to explaining what files are what, so be sure to read them. Some of the ports have their own, special README files, so be sure to look for those, too.

See unzip.1 or unzip.txt for usage (or the corresponding UnZipSFX, ZipInfo, fUnZip and ZipGrep docs). For VMS, unzip\_def.rnh or unzip\_cli.help may be compiled into unzip.hlp and installed as a normal VMS help entry; see vms/descrip.mms.

## CHANGES AND NEW FEATURES

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The 5.51 maintenance release adds a command-line CE port, intended for batch processing. With the integration of this port, the pUnZip port has been revised and "revitalized".

The most important changes for the general public are a number of bug fixes, mostly related to security issues:

- repair a serious bug in the textmode output conversion code for the 16-bit ports (16-bit MSDOS, OS/2 1.x, some variants of AMIGA, possibly others) which was introduced by the Deflate64 support of release 5.5
- fix a long standing bug in the the inflate decompression method that prevented correct extraction in some rare cases
- fixed holes in parent dir traversal security code (e.g.: ".^C." slipped through the previous version of the check code)
- fixed security hole: check naming consistency in local and central header
- fixed security hole: prevent extracted symlinks from redirecting file extraction paths

The main addition in the 5.5 release is support for PKWARE's new Deflate64(tm) algorithm, which appeared first in PKZIP 4.0 (published November 2000).

As usual, some other bugfixes and clean-ups have been integrated:

- support for Deflate64 (Zip compression method #9)
- support for extracting VMS variable length record text files on any system
- optional "cheap autorun" feature for the SFX stub
- security fixes:
  - \* strip leading slash from stored pathspecs,
  - \* remove "../" parent dir path components from extracted file names
- new option "-:" to allow verbatim extraction of file names containing "../" parent dir path specs
- fixed file handle leak for the DLL code
- repaired OS2 & WinNT ACL extraction which was broken in 5.42

The 5.42 maintenance release fixes more bugs and cleans up the redistribution conditions:

- removal of unreduce.c and amiga/timelib.c code to get rid of the last distribution restrictions beyond the BSD-like Info-ZIP LICENSE
- new generic timelib replacement (currently used by AMIGA port)
- more reasonable mapping rules of UNIX "leading-dot" filenames to the DOS 8.3 name convention
- repaired screensize detection in MORE paging code (was broken for DOS/OS2/WIN32 in 5.41)

The 5.41 maintenance release adds another new port and fixes some bugs.

- new BSD-like LICENSE
- new Novell Netware NLM port
- supports extraction of archives with more than 64k entries
- attribute handling of VMS port was broken in UnZip 5.4
- decryption support integrated in the main source distribution

The 5.4 release adds new ports, again. Other important items are changes to the listing format, new supplemental features and several bug fixes (especially concerning time-stamp handling...):

- new IBM OS/390 port, a UNIX derivate (POSIX with EBCDIC charset)
- complete revision of the MacOS port
- changed listing formats to enlarge the file size fields for more digits
- added capability to restore directory attributes on MSDOS, OS/2, WIN32
- enabled support of symbolic links on BeOS
- Unix: optional Acorn filetype support, useful for volumes exported via NFS
- several changes/additions to the DLL API
- GUI SFX stub for Win16 (Windows 3.1) and Win32 (Windows 9x, Windows NT)
- new free GCC compiler environments supported on WIN32

- many time-zone handling bug fixes for WIN32, AMIGA, ...

The 5.32 release adds two new ports and a fix for at least one relatively serious bug:

- new FlexOS port
- new Tandem NSK port
- new Visual BASIC support (compatibility with the Windows DLLs)
- new -T option (set zipfile timestamp) for virtually all ports
- fix for timestamps beyond 2038 (e.g., 2097; crashed under DOS/Win95/NT)
- fix for undetected "dangling" symbolic links (i.e., no pointee)
- fix for VMS indexed-file extraction problem (stored with Zip 2.0 or 2.1)
- further performance optimizations

The 5.31 release included nothing but small bug-fixes and typo corrections, with the exception of some minor performance tweaks.

The 5.3 release added still more ports and more cross-platform portability features:

- new BeOS port
- new SMS/QDOS port
- new Windows CE graphical port
- VM/CMS port fully updated and tested
- MVS port fully updated and tested
- updated Windows DLL port, with WiZ GUI spun off to a separate package
- full Universal Time (UTC or GMT) support for trans-timezone consistency
- cross-platform support for 8-bit characters (ISO Latin-1, OEM code pages)
- support for NT security descriptors (ACLs)
- support for overwriting OS/2 directory EAs if -o option given
- updated Solaris/SVR4 package facility

What is (still!) not added is multi-part archive support (a.k.a. "diskette spanning") and a unified and more powerful DLL interface. These are the two highest priorities for the 6.x releases. Work on the former is almost certain to have commenced by the time you read this. This time we mean it! You betcha. :-)

Although the DLLs are still basically a mess, the Windows DLLs (16- and 32-bit) now have some documentation and a small example application. Note that they should now be compatible with C/C++, Visual BASIC and Delphi. Weirder languages (FoxBase, etc.) are probably Right Out.

Finally, note that support for unshrinking has now been turned OFF by default, although the source code is still available (as with unreducing). This was done for legal reasons, not technical ones, and no, we're not any happier about it than you are. :- ( See the COPYING file for details.



## INTERNET RESOURCES

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Info-ZIP's web site is at <http://www.info-zip.org/pub/infozip/> and contains the most up-to-date information about coming releases, links to binaries, and common problems.

(See <http://www.info-zip.org/pub/infozip/FAQ.html> for the latter.)

Files may also be retrieved via <ftp://ftp.info-zip.org/pub/infozip/> .

Thanks to LEO (Munich, Germany) for hosting our primary site.

## DISTRIBUTION

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If you have a question regarding redistribution of Info-ZIP software, either as is, as packaging for a commercial product, or as an integral part of a commercial product, please read the Frequently Asked Questions (FAQ) section of the included COPYING file.

Insofar as C compilers are rare on some platforms and the authors only have direct access to a subset of the supported systems, others may wish to provide ready-to-run executables for new systems. In general there is no problem with this; we require only that such distributions include this README file, the WHERE file, the COPYING file (contains copyright/redistribution information), and the appropriate documentation files (unzip.txt and/or unzip.1 for UnZip, etc.). If the local system provides a way to make self-extracting archives in which both the executables and text files can be stored together, that's best (in particular, use UnZipSFX if at all possible, even if it's a few kilobytes bigger than the alternatives); otherwise we suggest a bare UnZip executable and a separate zipfile containing the remaining text and binary files. If another archiving method is in common use on the target system (for example, Zoo or LHa), that may also be used.

## BUGS AND NEW PORTS: CONTACTING INFO-ZIP

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All bug reports and patches (context diffs only, please!) should go to [Zip-Bugs@lists.wku.edu](mailto:Zip-Bugs@lists.wku.edu), which is the e-mail address for the Info-ZIP authors. (Note that a few rare systems require the Zip-Bugs part to be capitalized as shown; most systems work OK with lowercase "zip-bugs," however.) **DO NOT MAIL US LARGE BINARIES--EVER.** If you need to send us a problem archive that happens to be large (> 20K), contact us first for instructions.

"Dumb questions" that aren't adequately answered in the documentation should also be directed to Zip-Bugs rather than to a global forum such as Usenet. (Kindly make certain that your question *\*isn't\** answered by the documentation, however--a great deal of effort has gone into making

it clear and complete.)

Suggestions for new features can be discussed on [Info-ZIP@lists.wku.edu](mailto:Info-ZIP@lists.wku.edu), a mailing list for Info-ZIP beta testers and interested parties; you need to subscribe first, however (see below). We make no promises to act on all suggestions or even all patches, but if it is something that is manifestly useful, sending the required patches to Zip-Bugs directly (as per the instructions in the ZipPorts file) is likely to produce a quicker response than asking us to do it--the authors are always ridiculously short on time. (Please do NOT send patches or encoded zipfiles to the Info-ZIP list. Please DO read the ZipPorts file before sending any large patch. It would be difficult to over-emphasize this point...)

If you are considering a port, not only should you read the ZipPorts file, but also please check in with Zip-Bugs BEFORE getting started, since the code is constantly being updated behind the scenes. (For example, VxWorks, VMOS and Netware ports were once claimed to be under construction, although we have yet to see any up-to-date patches.) We will arrange to send you the latest sources. The alternative is the possibility that your hard work will be tucked away in a subdirectory and mostly ignored, or completely ignored if someone else has already done the port (and you'd be surprised how often this has happened).

#### BETA TESTING: JOINING INFO-ZIP

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If you'd like to keep up to date with our UnZip (and companion Zip utility) development, join the ranks of beta testers, add your own thoughts and contributions, or simply lurk, you may join one of our mailing lists. There is an announcements-only list (Info-ZIP-announce) and a general discussion/testing list (Info-ZIP). You must be a subscriber to post, and you can subscribe via the links on our Frequently Asked Questions page:

<http://www.info-zip.org/pub/infozip/FAQ.html#lists>

(Please note that as of late May 2004, the lists are unavailable pending a move to a new site; we hope to have them restored shortly. In the interim ...) Feel free to use our bug-reporting web page for bug reports and to ask questions not answered on the FAQ page above:

<http://www.info-zip.org/zip-bug.html>

There is also a closed mailing list for internal discussions of our core development team. This list is now kept secret to prevent us from being flooded with spam messages.

-- Greg Roelofs (sometimes known as Cave Newt), principal UnZip developer

guy, with inspiration from David Kirschbaum, was Author of this text.

-- Christian Spieler (shorthand: SPC), current UnZip maintenance coordinator, applied the most recent changes.

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This is the Info-ZIP file "WHERE," last updated on 22 May 2004.

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The latest version of this file can be found online at:

<ftp://ftp.info-zip.org/pub/infozip/doc/WHERE>

Note that some ftp sites may not yet have the latest versions of Zip and UnZip when you read this. The latest versions always appear in <ftp://ftp.info-zip.org/pub/infozip/> (and subdirectories thereof) first, except for encryption binaries, which always appear in <ftp://ftp.icce.rug.nl/infozip/> (and subdirectories) first.

IF YOU FIND AN ERROR: please let us know! We don't have time to check each and every site personally (or even collectively), so any number of the sites listed below may have moved or disappeared entirely. E-mail to [Zip-Bugs@lists.wku.edu](mailto:Zip-Bugs@lists.wku.edu) and we'll update this file.

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Info-ZIP's home WWW site is listed on Yahoo and is at:

<ftp://ftp.info-zip.org/pub/infozip/Info-ZIP.html> (master version)

<http://ftp.info-zip.org/pub/infozip/> (master version)

<http://www.info-zip.org/pub/infozip/>

Note that the old sites at <http://www.cdrom.com/pub/infozip/> and <http://www.freesoftware.com/pub/infozip> are PERMANENTLY BROKEN. They cannot be updated or removed, apparently.

The Zip and UnZip pages have links to most known mirror sites carrying our source and/or binary distributions, and they generally are more up-to-date and have better information than what you are reading:

<ftp://ftp.info-zip.org/pub/infozip/Zip.html>

<ftp://ftp.info-zip.org/pub/infozip/UnZip.html>

The related zlib package by Info-ZIP's Jean-loup Gailly and Mark Adler is at:

<http://www.zlib.org/>

Source-code archives for Info-ZIP's portable Zip, UnZip, and related utilities:

zip23.zip      Zip 2.3 (deflation; includes zipnote, zipsplit, zipcloak)  
zip23.tar.Z    ditto, compress'd tar format

zip11.zip      Zip 1.1 (shrinking, implosion; compatible w. PKUNZIP 1.1)  
zip11.tar.Z    ditto, compress'd tar format

unzip551.zip   UnZip 5.51 (all methods[\*]; unzip/funzip/unzipsfx/zipgrep)  
unzip551.tar.gz ditto, gzip'd tar format  
unzip551.tar.Z ditto, compress'd tar format

unred551.zip   UnZip 5.51 add-on, contains copyrighted unreduce support

zcrypt29.zip   encryption support for Zip 2.3[\*\*]  
zcrypt10.zip   encryption support for Zip 1.1

MacZip106src.zip contains all the GUI stuff and the project files to build the MacZip main-app. To build MacZip successfully, both the Zip 2.3 and UnZip 5.51 sources are required, too.

wiz502.zip      WiZ 5.02, Windows 9x/NT GUI front-end for Info-ZIP DLLs  
wiz502+dlls.zip WiZ 5.02, Windows 9x/NT GUI front-end plus DLL sources

[\*] Unreducing and unshrinking are not turned on by default but are included in source form. See UnZip's INSTALL file for details.

[\*\*] As of January 2000, US export regulations were amended to allow export of free encryption source code from the US. The UnZip 5.51 and WiZ 5.02 archives now include full crypto source code, as will the next release of Zip. In the meantime, zcrypt29.zip is available as an add-on for Zip 2.3. As of June 2002, US export regulations were further relaxed to allow export of encryption binaries associated with free encryption source code. As of the next Zip release, all official binaries will include encryption support; the "zcr" archives will cease to exist. (Note that restrictions may still exist in other countries, of course.)

Executables archives (and related files) for Info-ZIP's software; not all of these will be immediately available due to lack of access to appropriate systems on the part of Info-ZIP members.

zip23x.zip      MSDOS executables and docs (no encryption)

zcr23x.zip MS-DOS executables and docs (with encryption)

zip23x1.zip OS/2 1.x (16-bit) executables and docs (no encryption)

zcr23x1.zip OS/2 1.x (16-bit) executables and docs (with encryption)

zip23x2.zip OS/2 2/3/4.x (32-bit) executables and docs (no encryption)

zcr23x2.zip OS/2 2/3/4.x (32-bit) executables and docs (w/encryption)

zip23xA.zip Amiga executables and docs (no encryption)

zcr23xA.zip Amiga executables and docs (with encryption)

zip23xB.zip BeOS executables and docs (no encryption)

zcr23xB.zip BeOS executables and docs (with encryption)

zip23xC.zip VM/CMS executable and docs (no encryption)

zcr23xC.zip VM/CMS executable and docs (with encryption)

zip23xK.zip Tandem NSK executables and docs (no encryption)

zcr23xK.zip Tandem NSK executables and docs (with encryption)

zip23xM.xmit MVS classic executable (no encryption)

zcr23xM.xmit MVS classic executable (with encryption)

zip23xM-docs.zip MVS classic port, docs only

zip23dN.zip WinNT/Win95 (Intel) DLL, header files, docs (no encryption)

zcr23dN.zip WinNT/Win95 (Intel) DLL, header files, docs (w/encryption)

zip23xN.zip WinNT/Win95 (Intel) executables and docs (no encryption)

zcr23xN.zip WinNT/Win95 (Intel) executables and docs (with encryption)

zip23xN-axp.zip WinNT (Alpha AXP) executables and docs (no encryption)

zcr23xN-axp.zip WinNT (Alpha AXP) executables and docs (with encryption)

zip23xN-mip.zip WinNT (MIPS R4000) executables and docs (no encryption)

zcr23xN-mip.zip WinNT (MIPS R4000) executables and docs (with encryption)

zip23xN-ppc.zip WinNT (PowerPC) executables and docs (no encryption)

zcr23xN-ppc.zip WinNT (PowerPC) executables and docs (with encryption)

zip23xO.zip IBM OS/390 Open Edition binaries and docs (no encryption)

zcr23xO.zip IBM OS/390 Open Edition binaries and docs (w/ encryption)

zip23xQ.zip SMS/QDOS executables and docs (no encryption)

zcr23xQ.zip SMS/QDOS executables and docs (with encryption)

zip23xR.zip Acorn RISC OS executables and docs (no encryption)

zcr23xR.zip Acorn RISC OS executables and docs (with encryption)

zip23xT.zip Atari TOS executables and docs (no encryption)

zcr23xT.zip Atari TOS executables and docs (with encryption)

zip23-vms-axp-obj.zip (no encryption)  
VMS (Alpha AXP) object libs, link procedure and docs

zip23-vms-axp-exe.zip (no encryption)  
VMS (Alpha AXP) executables for VMS 6.1 or later and docs

zip23-vms-vax-decc-obj.zip (no encryption)  
VMS (VAX) object libs (new DEC C), link procedure and docs

zip23-vms-vax-decc-exe.zip (no encryption)  
VMS (VAX) executables (DEC C) for VMS 6.1 or later; docs

zip23-vms-vax-vaxc-obj.zip (no encryption)  
VMS (VAX) object libs (old VAX C), link procedure and docs

zcr23-vms-axp-obj.zip (with encryption)  
VMS (Alpha AXP) object libs, link procedure and docs

zcr23-vms-axp-exe.zip (with encryption)  
VMS (Alpha AXP) executables for VMS 6.1 or later and docs

zcr23-vms-vax-decc-obj.zip (with encryption)  
 VMS (VAX) object libs (new DEC C), link procedure and docs

zcr23-vms-vax-decc-exe.zip (with encryption)  
 VMS (VAX) executables (DEC C) for VMS 6.1 or later; docs

zcr23-vms-vax-vaxc-obj.zip (with encryption)  
 VMS (VAX) object libs (old VAX C), link procedure and docs

zip23x.hqx Macintosh BinHex'd executables and docs (no encryption)

unz551x.exe MSDOS self-extracting executable (16-bit unzip, ..., docs)

unz551x3.exe MSDOS self-extracting executable (16-, 32-bit unzip, docs)

unz551x1.exe OS/2 1.x (16-bit) self-extracting executables and docs

unz551x2.exe OS/2 2/3/4.x (32-bit) self-extracting executables and docs

unz551d2.zip OS/2 2/3/4.x (32-bit) DLL, header file, demo exe and docs

unz551xA.ami Amiga self-extracting executables and docs

unz551xA.lha Amiga executables and docs, LHa archive

unz551xB.sfx BeOS self-extracting executables and docs

unz551xB.tar.gz BeOS executables and docs, gzip'd tar archive

unz551xC.mod VM/CMS executable module in "packed" format

unz551xC-docs.zip VM/CMS docs, only

unz551xF.zip FlexOS executable and docs

unz551xK.zip Tandem NSK executable and docs

unz551xM.xmit MVS classic executable

unz551xM-docs.zip MVS classic port, docs only

unz551dN.zip WinNT/Win95 (32-bit Intel) DLL, header files, docs

unz551xN.exe WinNT/Win95 self-extracting Intel executables and docs

unz551xN-axp.exe WinNT (Alpha AXP) self-extracting executables and docs

unz551xN-mip.exe WinNT (MIPS R4000) self-extracting executables and docs

unz551xN-ppc.exe WinNT (PowerPC) self-extracting executables and docs

unz551xQ.sfx SMS/QDOS self-extracting executables and docs

unz551xO.tar.Z IBM OS/390 Open edition (Unix-like), exes and docs

unz551xR.exe Acorn RISC OS self-extracting executables and docs

unz551xR.spk Acorn RISC OS Spark'd executables and docs

unz551xT.tos Atari TOS self-extracting executables and docs

unz551x-vms-axp-obj.bck VMS backup saveset,  
 contains UnZip (Alpha) obj libs, link procedure, docs

unz551x-vms-axp-obj.exe VMS (Alpha AXP) SFX archive (statically linked),  
 contains UnZip (Alpha) obj libs, link procedure, docs

unz551x-vms-axp-exe.exe VMS (Alpha AXP) SFX archive (dynamically linked),  
 contains UnZip (Alpha AXP, DEC C) executables and docs,  
 smaller than object archive, but requires VMS 6.1

unz551x-vms-vax-decc-obj.bck VMS backup saveset,  
 contains UnZip (new DEC C) obj libs, link procedure, docs

unz551x-vms-vax-decc-obj.exe VMS (VAX) SFX archive (statically linked),  
 contains UnZip (new DEC C) obj libs, link procedure, docs

unz551x-vms-vax-decc-exe.exe VMS (VAX) SFX archive (dynamically linked),  
 contains UnZip (new DEC C) executables and docs,  
 smaller than object archive, but requires VMS 6.1

unz551x-vms-vax-vaxc-obj.bck VMS backup saveset,

contains UnZip (old VAX C) obj libs, link procedure, docs  
unz551x-vms-vax-vaxc-obj.exe VMS (VAX) SFX archive (statically linked),  
contains UnZip (old VAX C) obj libs, link procedure, docs  
unz551x.hqx Macintosh BinHex'd executables and docs for unzip  
(unz551x.tar.{Z,gz} Unix exes/docs for Solaris 2.x, SCO Unix, Linux, etc.,  
depending on directory/location; generally only provided  
in cases where the OS does \*not\* ship with a bundled C  
compiler)

MacZip106nc.hqx Macintosh combined Zip&UnZip application with GUI,  
executables and docs (no encryption)

MacZip106c.hqx Macintosh combined Zip&UnZip application with GUI,  
executables and docs (with encryption)

wiz502xN.exe WiZ 5.02 32-bit (Windows 9x/NT/2000) app+docs (self-extr.)

UnzpHist.zip complete changes-history of UnZip and its precursors

ZipHist.zip complete changes-history of Zip

ftp/web sites for the US-exportable sources and executables:

NOTE: Look for the Info-ZIP file names given above (not PKWARE or third-party stuff) in the following locations. Some sites like to use slightly different names, such as zip-2.3.tar.gz instead of zip23.tar.Z.

ftp://ftp.info-zip.org/pub/infozip/ [THE INFO-ZIP HOME SITE]  
ftp://sunsite.doc.ic.ac.uk/packages/zip/ [MIRRORS THE INFO-ZIP HOME SITE]  
ftp://unix.hensa.ac.uk/mirrors/uunet/pub/archiving/zip/

ftp://ftp.cmdl.noaa.gov/aerosol/doc/archiver/{all,dos,os2,mac,vax\_alpha}/  
ftp://garbo.uwasa.fi/pc/arcers/ [AND OTHER GARBO MIRRORS]  
ftp://garbo.uwasa.fi/unix/arcers/ [AND OTHER GARBO MIRRORS]  
ftp://ftp.elf.stuba.sk/pub/pc/pack/ [AND OTHER STUBA MIRRORS]  
ftp://ftp-os2.cdrom.com/pub/os2/archiver/  
ftp://ftp-os2.nmsu.edu/os2/archiver/  
ftp://ftp.informatik.tu-muenchen.de/pub/comp/os/os2/archiver/  
ftp://sumex-aim.stanford.edu/info-mac/cmp/  
ftp://ftp.wustl.edu/pub/aminet/util/arc/ [AND OTHER AMINET MIRRORS]  
ftp://atari.archive.umich.edu/pub/Archivers/ [AND OTHER UMICH MIRRORS]  
http://www.umich.edu/~archive/atari/Archivers/  
ftp://jake.educom.com.au/pub/infozip/acorn/ [Acorn RISC OS]  
http://www.sitec.net/maczip/ [MacZip port]

ftp/web sites for the encryption and decryption sources and/or executables:

Outside the US:

ftp://ftp.info-zip.org/pub/infozip/ [THE INFO-ZIP HOME SITE]  
ftp://ftp.icce.rug.nl/infozip/ [THE INFO-ZIP ENCRYPTION HOME SITE]



ftp://ftp.elf.stuba.sk/pub/pc/pack/  
ftp://garbo.uwasa.fi/pc/arcers/  
ftp://ftp.inria.fr/system/arch-compr/  
ftp://ftp.leo.org/pub/comp/os/os2/leo/archiver/  
(mail server at ftp-mailer@ftp.leo.org)

ftp://ftp.win.tue.nl/pub/compression/zip/  
ftp://ftp.uni-erlangen.de/pub/pc/msdos/arc-utils/zip/

The primary distribution site for the MacZip port can be found at:

<http://www.sitec.net/maczip/>

ftp sites for VMS-format Zip and UnZip packages (sources, object files and executables, no encryption/decryption--see also "Mail servers" section below):

ftp.spc.edu [192.107.46.27] and ftp.wku.edu:

[.MACRO32]AAAREADME.TXT  
[.MACRO32.SAVESETS]UNZIP.BCK or UNZIP.ZIP (if already have older version)  
[.MACRO32.SAVESETS]ZIP.ZIP

To find other ftp/web sites:

The "archie" ftp database utility can be used to find an ftp site near you (although the command-line versions always seem to find old versions...the 'FTPsearch' server at <http://ftpsearch.ntnu.no/ftpsearch> --formerly 'Archie 95'--is quite up-to-date, however). Or check a standard WWW search engine like AltaVista (<http://www.altavista.digital.com/>) or Yahoo (<http://www.yahoo.com/>). If you don't know how to use these, DON'T ASK US--read the web sites' help pages or check the Usenet groups news.announce.newusers or news.answers or some such, or ask your system administrator.

Mail servers:

To get the encryption sources by e-mail, send the following commands to ftp-mailer@informatik.tu-muenchen.de:

```
get /pub/comp/os/os2/archiver/zcrypt29.zip  
quit
```

To get the VMS Zip/UnZip package by e-mail, send the following commands in the body of a mail message to fileserv@wku.edu (the "HELP" command is also accepted):

```
SEND FILESERV_TOOLS
```

SEND UNZIP

SEND ZIP

To get Atari executables by e-mail, send a message to  
atari@atari.archive.umich.edu for information about the mail server.

---

# 1.281 usbutils 0.11 :7.RHEL4.1

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## 1.282 utempter 0.5.5 :5

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Version 2, June 1991

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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.

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<one line to give the library's name and a brief idea of what it does.>  
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## 1.283 util-linux 2.12a :24.el4\_8.1

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If you develop a new program, and you want it to be of the greatest possible use to the public, 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 2 of the License, 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., 59 Temple Place - Suite 330, Boston, MA 02111-1307, 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) 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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## 1.284 vim 6.3.046 :2.e|4.1

## 1.284.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

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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) <year> <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.

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) year 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
```

This General Public License does not permit incorporating your program into

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\*uganda.txt\* For Vim version 6.3. Last change: 2004 May 12

VIM REFERENCE MANUAL by Bram Moolenaar

\*uganda\* \*Uganda\* \*copying\* \*copyright\* \*license\*

## SUMMARY

\*iccf\* \*ICCF\*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

<http://iccf-holland.org/>

<http://www.vim.org/iccf/>

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|.

The Open Publication License applies to the Vim documentation, see |manual-copyright|.

=== begin of license ===

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II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

- 1) This license text must be included unmodified.
- 2) The modified Vim must be distributed in one of the following five ways:
  - a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the

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b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

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- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

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4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

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

==== end of license ====

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].
  
- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.
  
- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.
  
- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.
  
- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED\_BY define.

=====  
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).

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:

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

USA and Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. You can send them a one time donation directly.

Please send me a note so that 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 (under the Free Trade Agreement tax receipts issued by an organization registered in Canada are fully accepted by the IRS in the USA, with a few conditions).

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%40moolenaar.net>

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

Bram@iccf-holland.org

For amounts above \$150 sending a cheque 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 cheque in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign cheques, sorry)

Address to send cheques to:

stichting ICCF Holland

Bram Moolenaar

Clematisstraat 30

5925 BE Venlo

The Netherlands

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

## 1.285 vixie-cron 4.1 :57.el4



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## 1.295 XOM 1.2.5

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