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1.2 apr 1.4.8-3 :el7

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file_io/unix/mktemp.c, strings/apr_strings.c:

/*

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

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From dso/aix/dso.c:

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

```
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*
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1.3 apr 1.4.8-3 :el7_4.1

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file_io/unix/mktemp.c, strings/apr_strings.c:

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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# install - install a program, script, or datafile
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1.7 attr 2.4.46-13 :el7

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```

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1.8 avahi 0.6.31-19 :el7

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

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

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

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

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

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

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

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b) Use a suitable shared library mechanism for linking with the

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

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

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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.

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1.10 bash-completion 2.1-6 :el7

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1.11 bc 1.06.95 :13.e17

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1.18 container-selinux 2.36-1.gitff95335 :el7

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1.19 container-storage-setup 0.8.0-3.git1d27ecf :el7

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1.20 cryptsetup 1.7.4-3 :el7-3

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1.21 cryptsetup 1.7.4-4 :el7

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<P>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.

<P>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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<P>0.

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<OL TYPE="a">

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<P>

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<P>

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<P>

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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.

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.

<P>

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

<P>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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<OL TYPE="a">

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<P>

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<PRE>

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by James Random Hacker.

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

<P>That's all there is to it!

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

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

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

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

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

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[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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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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1.23 cups 1.6.3-35 :el7

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```
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<P>Version 2, June 1991

<PRE>

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</PRE>

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<OL START="0">

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<PRE>

<VAR>one line to give the program's name and an idea of what it does.</VAR>
Copyright (C) <VAR>yyyy</VAR> <VAR>name of author</VAR>

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</PRE>

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

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

<PRE>

```
Gnomovision version 69, Copyright (C) <VAR>year</VAR> <VAR>name of author</VAR>
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.
```

</PRE>

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

<P>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:

<PRE>

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

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

<H2 CLASS="title">GNU LIBRARY GENERAL PUBLIC LICENSE</H2>

<P>Version 2, June 1991

<PRE>

```
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of this license document, but changing it is not allowed.
```

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

</PRE>

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<P>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.

<P>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.

<P>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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<P>"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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<OL TYPE="a">

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<P>

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

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<OL TYPE="a">

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<P>

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<P>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.24 device-mapper-multipath 0.4.9-119 :el7_5.1

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is

analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is

included without limitation in the term "modification".)

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

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

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

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

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

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany

it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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

```
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```

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That's all there is to it!

1.25 device-mapper-multipath 0.4.9-111 :el

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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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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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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)

Negotiate the most appropriate content_type given the accept header and a list of alternatives.

func ParseAccept(header string) (accept []Accept)

Parse an Accept Header string returning a sorted list of clauses

TYPES

```
type Accept struct {
    Type, SubType string
    Q          float32
    Params    map[string]string
}
```

Structure to represent a clause in an HTTP Accept Header

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<http://github.com/gogo/protobuf/gogoproto>

Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see <https://developers.google.com/protocol-buffers/>

Installation

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from <https://developers.google.com/protocol-buffers/>

- Of course, install the Go compiler and tools from <https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```

The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers. See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf see <http://github.com/gogo/protobuf/gogoprotoc/doc.go>

```
## Using protocol buffers with Go ##
```

Once the software is installed, there are two steps to using it. First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto. gogo.proto is located in github.com/gogo/protobuf/gogoprotoc This should be fine, since your import is the same. descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/ Its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

```
=====
```

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.
- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F *int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```
package example;
```

```
enum FOO { X = 17; };
```



```

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}

```

To create and play with a Test object from the example package,

```

package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
  }
  // etc.
}

```

gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to

generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

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Installation

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from <https://developers.google.com/protocol-buffers/>
- Of course, install the Go compiler and tools from <https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

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- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
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There is support for gRPC in Go using protocol buffers.

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Using protocol buffers with Go

Once the software is installed, there are two steps to using it.

First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

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protoc --gogo_out=. *.proto
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If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto. gogo.proto is located in github.com/gogo/protobuf/gogoproto. This should be fine, since your import is the same. descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/. Its import is [google/protobuf/descriptor.proto](https://code.google.com/p/protobuf/descriptor.proto) so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.
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- There are getters that return a field's value if set, and return the field's default value if unset.

The getters work even if the receiver is a nil message.

- The zero value for a struct is its correct initialization state.

All desired fields must be set before marshaling.

- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F *int32.

- Repeated fields are slices.
- Helper functions are available to aid the setting of fields.

Helpers for getting values are superseded by the

GetFoo methods and their use is deprecated.

```
msg.Foo = proto.String("hello") // set field
```

- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.

- Enums are given type names and maps from names to values.

- Enum values are prefixed with the enum's type name. Enum types have a `String` method, and a `Enum` method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
 - Extensions are given descriptor names that start with `E_`, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. `HasExtension`, `ClearExtension`, `GetExtension` and `SetExtension` are functions for manipulating extensions.
 - Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
 - `Marshal` and `Unmarshal` are functions to encode and decode the wire format.

Consider file `test.proto`, containing

```
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a `Test` object from the example package,

```
package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
```

```

if err != nil {
    log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
    log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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<https://github.com/golang/protobuf>

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see <https://developers.google.com/protocol-buffers/>

Installation

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from <https://developers.google.com/protocol-buffers/>
- Of course, install the Go compiler and tools from <https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```

The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers.
See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf
see <http://github.com/gogo/protobuf/gogoprotobuf/doc.go>

Using protocol buffers with Go

Once the software is installed, there are two steps to using it.
First you must compile the protocol buffer definitions and then import
them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out
parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
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The generated files will be suffixed .pb.go. See the Test code below
for an example using such a file.

The package comment for the proto library contains text describing
the interface provided in Go for protocol buffers. Here is an edited
version.

If you are using any gogo.proto extensions you will need to specify the
proto_path to include the descriptor.proto and gogo.proto.
gogo.proto is located in github.com/gogo/protobuf/gogoprotobuf
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf
or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

```
=====
```

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them as structure fields.

- There are getters that return a field's value if set, and return the field's default value if unset.

The getters work even if the receiver is a nil message.

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All desired fields must be set before marshaling.

- A Reset() method will restore a protobuf struct to its zero state.

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That is, optional or required field int32 f becomes F *int32.

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Helpers for getting values are superseded by the

GetFoo methods and their use is deprecated.

```
msg.Foo = proto.String("hello") // set field
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- Nested groups and enums have type names prefixed with the name of the surrounding message type.

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Consider file test.proto, containing

```
package example;
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```
enum FOO { X = 17; };
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```
message Test {
```

```
  required string label = 1;
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  optional int32 type = 2 [default=77];
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```
  repeated int64 reps = 3;
```

```
  optional group OptionalGroup = 4 {
```

```
    required string RequiredField = 5;
```

```
  }
```

```
}
```

To create and play with a Test object from the example package,

```

package main

import (
    "log"

    "github.com/gogo/protobuf/proto"
    "path/to/example"
)

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type: proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
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    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
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=====

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gogo.proto is located in github.com/gogo/protobuf/gogoprotos

This should be fine, since your import is the same.

descriptor.proto is located in either github.com/gogo/protobuf/protobuf
or code.google.com/p/protobuf/trunk/src/

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```
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  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```
package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
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  }
  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
```

```
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}
```

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```
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```

=====

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To compile the protocol buffer definition, run `protoc` with the `--gogo_out` parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed `.pb.go`. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any `gogo.proto` extensions you will need to specify the `proto_path` to include the `descriptor.proto` and `gogo.proto`. `gogo.proto` is located in `github.com/gogo/protobuf/gogoproto`. This should be fine, since your import is the same. `descriptor.proto` is located in either `github.com/gogo/protobuf/protobuf` or `code.google.com/p/protobuf/trunk/src/`. Its import is `google/protobuf/descriptor.proto` so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

The `proto` package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for `.proto` files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable `v`:

- Names are turned from `camel_case` to `CamelCase` for export.
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- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A `Reset()` method will restore a `protobuf` struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field `int32 f` becomes `F *int32`.
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Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.
`msg.Foo = proto.String("hello") // set field`
- Constants are defined to hold the default values of all fields that have them. They have the form `Default_StructName_FieldName`. Because the getter methods handle defaulted values, direct use of these constants should be rare.
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- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with `E_`, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. `HasExtension`, `ClearExtension`, `GetExtension` and `SetExtension` are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- `Marshal` and `Unmarshal` are functions to encode and decode the wire format.

Consider file `test.proto`, containing

```
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a `Test` object from the example package,

```
package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)
```

```

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
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            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
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        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
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    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
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=====

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```
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```

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    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
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```

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```
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```

=====

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<http://github.com/gogo/protobuf/gogoproto>

Go support for Protocol Buffers - Google's data interchange format

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```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
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    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
```

```

log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
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Consider file test.proto, containing

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package example;

enum FOO { X = 17; };

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package main

import (
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func main() {
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        Label: proto.String("hello"),
        Type: proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
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    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
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    }
    // etc.
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```

=====

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  "path/to/example"
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    Optionalgroup: &example.Test_OptionalGroup {
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    },
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  data, err := proto.Marshal(test)
  if err != nil {
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  newTest := &example.Test{ }
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GetFoo methods and their use is deprecated.

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msg.Foo = proto.String("hello") // set field
```

- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName.

Because the getter methods handle defaulted values,

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- Enums are given type names and maps from names to values.

Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.

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- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.

- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.

- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```
package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
```



```

test := &example.Test {
  Label: proto.String("hello"),
  Type: proto.Int32(17),
  Optionalgroup: &example.Test_OptionalGroup {
    RequiredField: proto.String("good bye"),
  },
}
data, err := proto.Marshal(test)
if err != nil {
  log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
  log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
  log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

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=====

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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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See

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for details or, if you are using gccgo, follow the instructions at

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- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```

The compiler plugin, protoc-gen-go, will be installed in \$GOBIN,

defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

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```
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```

```
=====
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message Test {
    required string label = 1;
```

```

optional int32 type = 2 [default=77];
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optional group OptionalGroup = 4 {
  required string RequiredField = 5;
}
}

```

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    "log"

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        Label: proto.String("hello"),
        Type: proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
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    err = proto.Unmarshal(data, newTest)
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    // etc.
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```

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```
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```

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The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in github.com/gogo/protobuf/gogoproto

This should be fine, since your import is the same.

descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/

Its import is `google/protobuf/descriptor.proto` so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

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```

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Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```
package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
}
```

```

}
newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
    log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --go_out=plugins=grpc:. *.proto
```

=====

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descriptor.proto is located in either github.com/gogo/protobuf/protobuf
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Its import is `google/protobuf/descriptor.proto` so it might need some help.

```
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followed by an underscore-delimited list of the nested messages

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- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.

- `Marshal` and `Unmarshal` are functions to encode and decode the wire format.

Consider file `test.proto`, containing

```
package example;
```

```
enum FOO { X = 17; };
```

```
message Test {  
  required string label = 1;  
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  optional group OptionalGroup = 4 {  
    required string RequiredField = 5;  
  }  
}
```

To create and play with a `Test` object from the example package,

```
package main
```

```

import (
    "log"

    "github.com/gogo/protobuf/proto"
    "path/to/example"
)

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
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        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
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    }
    newTest := &example.Test{ }
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
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```

=====

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```
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To create and play with a Test object from the example package,

```
package main

import (
    "log"

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func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type: proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
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    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
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```

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// etc.  
}
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```
protoc --gogo_out=plugins=grpc:. *.proto
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=====

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- Of course, install the Go compiler and tools from <https://golang.org/>

See

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A summary of the properties of the protocol buffer interface for a protocol buffer variable `v`:

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- There are no methods on `v` to set fields; just treat them as structure fields.
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message Test {  
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}
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package main
```

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```

```
func main() {  
  test := &example.Test {
```

```

Label: proto.String("hello"),
Type: proto.Int32(17),
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},
}
data, err := proto.Marshal(test)
if err != nil {
  log.Fatal("marshaling error: ", err)
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newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
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```

```
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```

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}
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  "github.com/gogo/protobuf/proto"
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    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
}
```

```

newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
    log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
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See

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The simplest way is to run

```
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`gogo.proto` is located in github.com/gogo/protobuf/gogoproto
This should be fine, since your import is the same.
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```

```
=====
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```
msg.Foo = proto.String("hello") // set field
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package example;

enum FOO { X = 17; };

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  optional group OptionalGroup = 4 {
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}
```

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```
package main
```

```

import (
    "log"

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func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type: proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
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    Label: proto.String("hello"),
    Type: proto.Int32(17),
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    },
  }
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  }
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  // etc.
}
```


}

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```
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```

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Consider file `test.proto`, containing

```
package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
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 }
}
```

To create and play with a `Test` object from the example package,

```
package main

import (
 "log"

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 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
```

```

Type: proto.Int32(17),
Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
 log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
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Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
```



```

optional group OptionalGroup = 4 {
 required string RequiredField = 5;
}
}

```

To create and play with a Test object from the example package,

```

package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{ }
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
 }
 // etc.
}

```

## gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go\_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

---

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<http://github.com/gogo/protobuf/gogoproto>

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<https://github.com/golang/protobuf>

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see

<https://developers.google.com/protocol-buffers/>

## ## Installation ##

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from

<https://developers.google.com/protocol-buffers/>

- Of course, install the Go compiler and tools from

<https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using `gccgo`, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```

The compiler plugin, `protoc-gen-go`, will be installed in `$GOBIN`, defaulting to `$GOPATH/bin`. It must be in your `$PATH` for the protocol compiler, `protoc`, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers.

See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf see <http://github.com/gogo/protobuf/gogoprotoc/doc.go>

## ## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.

First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run `protoc` with the `--gogo_out` parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed `.pb.go`. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto\_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in [github.com/gogo/protobuf/gogoprotos](https://github.com/gogo/protobuf/gogoprotos)

This should be fine, since your import is the same.

descriptor.proto is located in either [github.com/gogo/protobuf/protobuf](https://github.com/gogo/protobuf/protobuf) or [code.google.com/p/protobuf/trunk/src/](https://code.google.com/p/protobuf/trunk/src/)

Its import is [google/protobuf/descriptor.proto](https://code.google.com/p/protobuf/descriptor.proto) so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel\_case to CamelCase for export.
- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset.

The getters work even if the receiver is a nil message.

- The zero value for a struct is its correct initialization state.

All desired fields must be set before marshaling.

- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F \*int32.

- Repeated fields are slices.
- Helper functions are available to aid the setting of fields.

Helpers for getting values are superseded by the

GetFoo methods and their use is deprecated.

```
msg.Foo = proto.String("hello") // set field
```

- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName.

Because the getter methods handle defaulted values, direct use of these constants should be rare.

- Enums are given type names and maps from names to values.

Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.

- Nested groups and enums have type names prefixed with the name of the surrounding message type.

- Extensions are given descriptor names that start with E\_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a Test object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
```

```

err = proto.Unmarshal(data, newTest)
if err != nil {
 log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

## gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go\_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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### ## Installation ##

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from <https://developers.google.com/protocol-buffers/>
- Of course, install the Go compiler and tools from <https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```

The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

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GoGoProtobuf provides extensions for protocol buffers and GoProtobuf  
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The package comment for the proto library contains text describing  
the interface provided in Go for protocol buffers. Here is an edited  
version.

If you are using any gogo.proto extensions you will need to specify the  
proto\_path to include the descriptor.proto and gogo.proto.  
gogo.proto is located in [github.com/gogo/protobuf/gogoprotoc](http://github.com/gogo/protobuf/gogoprotoc)  
This should be fine, since your import is the same.  
descriptor.proto is located in either [github.com/gogo/protobuf/protobuf](http://github.com/gogo/protobuf/protobuf)  
or [code.google.com/p/protobuf/trunk/src/](http://code.google.com/p/protobuf/trunk/src/)  
Its import is [google/protobuf/descriptor.proto](http://google/protobuf/descriptor.proto) so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

The proto package converts data structures to and from the  
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A summary of the properties of the protocol buffer interface  
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- The getters work even if the receiver is a nil message.



- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
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- Repeated fields are slices.
- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.
 

```
msg.Foo = proto.String("hello") // set field
```
- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
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 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a Test object from the example package,

```
package main

import (
```

```

"log"

"github.com/gogo/protobuf/proto"
"path/to/example"
)

func main() {
test := &example.Test {
Label: proto.String("hello"),
Type: proto.Int32(17),
Optionalgroup: &example.Test_OptionalGroup {
RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

## gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go\_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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<https://github.com/golang/protobuf>

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see

<https://developers.google.com/protocol-buffers/>

## Installation ##

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from <https://developers.google.com/protocol-buffers/>

- Of course, install the Go compiler and tools from <https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run ``go get -u github.com/golang/protobuf/{proto,protoc-gen-go}``.

The compiler plugin, `protoc-gen-go`, will be installed in `$GOBIN`, defaulting to `$GOPATH/bin`. It must be in your `$PATH` for the protocol compiler, `protoc`, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers.

See the note at the bottom of this file for details.

There are no insertion points in the plugin.

## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.

First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run `protoc` with the `--go_out` parameter set to the directory you want to output the Go code to.

```
protoc --go_out=. *.proto
```

The generated files will be suffixed `.pb.go`. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

```
=====
```



The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel\_case to CamelCase for export.
- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F \*int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.  
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E\_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

When the .proto file specifies `syntax="proto3"`, there are some differences:

- Non-repeated fields of non-message type are values instead of pointers.
- Getters are only generated for message and oneof fields.
- Enum types do not get an Enum method.

Consider file test.proto, containing

```
```proto
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```
```

To create and play with a Test object from the example package,

```
```go
package main

import (
    "log"

    "github.com/golang/protobuf/proto"
    "path/to/example"
)

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type: proto.Int32(17),
        Reps: []int64{1, 2, 3},
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
}
```

```

if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}
...

```

Parameters

To pass extra parameters to the plugin, use a comma-separated parameter list separated from the output directory by a colon:

```
protoc --go_out=plugins=grpc,import_path=mypackage:. *.proto
```

- ``import_prefix=xxx`` - a prefix that is added onto the beginning of all imports. Useful for things like generating protos in a subdirectory, or regenerating vendored protobufs in-place.
- ``import_path=foo/bar`` - used as the package if no input files declare ``go_package``. If it contains slashes, everything up to the rightmost slash is ignored.
- ``plugins=plugin1+plugin2`` - specifies the list of sub-plugins to load. The only plugin in this repo is ``grpc``.
- ``Mfoo/bar.proto=quux/shme`` - declares that `foo/bar.proto` is associated with Go package `quux/shme`. This is subject to the `import_prefix` parameter.

gRPC Support

If a proto file specifies RPC services, `protoc-gen-go` can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the ``plugins`` parameter to `protoc-gen-go`; the usual way is to insert it into the `--go_out` argument to `protoc`:

```
protoc --go_out=plugins=grpc:. *.proto
```

=====

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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.TH "etcdctl3" "1" "Nov 2017" "Auto generated by spf13/cobra" ""

.nh

.ad 1

.SH NAME

.PP

etcdctl\role\revoke\permission \- Revokes a key from a role

.SH SYNOPSIS

.PP

\fBETCDCTL=3 etcdctl role revoke\permission\fp [OPTIONS]

.SH DESCRIPTION

.PP

Revokes a key from a role

.SH OPTIONS

.PP

\fB\-\-from\key\fp[=false]

revoke a permission of keys that are greater than or equal to the given key using byte compare

.PP

\fB\-\-prefix\fp[=false]

revoke a prefix permission

.SH OPTIONS INHERITED FROM PARENT COMMANDS

.PP

\fB\-\-cacert\fp=""

verify certificates of TLS-enabled secure servers using this CA bundle

.PP

\fB\-\-cert\fp=""

identify secure client using this TLS certificate file

.PP

\fB\-\-command\timeout\fp=5s

timeout for short running command (excluding dial timeout)

.PP

\fB\-\-debug\fp[=false]

enable client-side debug logging

.PP

\fB\-\-dial\timeout\fp=2s

dial timeout for client connections

.PP

\fB\-\-endpoints\fp=[127.0.0.1:2379]

gRPC endpoints

.PP

`\fB\-\-hex\fP[=false]`

print byte strings as hex encoded strings

.PP

`\fB\-\-insecure\-\-skip\-\-tls\-\-verify\fP[=false]`

skip server certificate verification

.PP

`\fB\-\-insecure\-\-transport\fP[=true]`

disable transport security for client connections

.PP

`\fB\-\-key\fP=""`

identify secure client using this TLS key file

.PP

`\fB\-\-user\fP=""`

username[:password] for authentication (prompt if password is not supplied)

.PP

`\fB\-\-w\fP, \fB\-\-write\-\-out\fP="simple"`

set the output format (fields, json, protobuf, simple, table)

.SH SEE ALSO

.PP

`\fBetcctl\-\-role(1)\fP`

.SH HISTORY

.PP

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.TH "etcctl3" "1" "Nov 2017" "Auto generated by spf13/cobra" ""

.nh

.ad 1

.SH NAME

.PP

`etcctl\-\-role\-\-grant\-\-permission \-` Grants a key to a role

.SH SYNOPSIS

.PP

`\fBETCDCTL=3 etcctl role grant\-\-permission\fP [OPTIONS]`

.SH DESCRIPTION

.PP

Grants a key to a role

.SH OPTIONS

.PP

`\fB\-\-from\-\-key\fP[=false]`

grant a permission of keys that are greater than or equal to the given key using byte compare

.PP

`\fB\-\-prefix\fP[=false]`

grant a prefix permission

.SH OPTIONS INHERITED FROM PARENT COMMANDS

.PP

`\fB\-\-cacert\fP=""`

verify certificates of TLS-enabled secure servers using this CA bundle

.PP

`\fB\-\-cert\fP=""`

identify secure client using this TLS certificate file

.PP

`\fB\-\-command\-\-timeout\fP=5s`

timeout for short running command (excluding dial timeout)

.PP

`\fB\-\-debug\fP[=false]`

enable client-side debug logging

.PP

`\fB\-\-dial\-\-timeout\fP=2s`

dial timeout for client connections

.PP

`\fB\-\-endpoints\fP=[127.0.0.1:2379]`

gRPC endpoints

.PP

`\fB\-\-hex\fP[=false]`

print byte strings as hex encoded strings

.PP

`\fB\-\-insecure\-\-skip\-\-tls\-\-verify\fP[=false]`

skip server certificate verification

.PP

```
\fB\-\-insecure\-\-transport\fP[=true]  
  disable transport security for client connections
```

.PP

```
\fB\-\-key\fP=""  
  identify secure client using this TLS key file
```

.PP

```
\fB\-\-user\fP=""  
  username[:password] for authentication (prompt if password is not supplied)
```

.PP

```
\fB\-\-w\fP, \fB\-\-write\-\-out\fP="simple"  
  set the output format (fields, json, protobuf, simple, table)
```

.SH SEE ALSO

.PP

```
\fB\etcdctl3\-\-role(1)\fP
```

.SH HISTORY

.PP

20\-\Nov\-\2017 Auto generated by spf13/cobra

1.33 git 2.11.1-1 :WANdisco.346.x86_64

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```

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1.34 glusterfs-fuse 3.8.4-54.15 :el7.centos

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From ac610b87289530bccadb9e245912c4491c1affd5 Mon Sep 17 00:00:00 2001
From: Niels de Vos <ndevos@redhat.com>
Date: Thu, 6 Jul 2017 17:04:17 +0200
Subject: [PATCH 551/557] nfs: add permission checking for mounting over WebNFS

Solaris 10 uses WebNFS and not the MOUNT protocol. All permission checks
for allowing/denying clients to mount are done through the MNT handlers.

These handlers will not give out a filehandle to the NFS-client when
mounting is denied. This prevents clients from successful mounting.

However, over WebNFS a well known 'root-filehandle' is used directly with the NFSv3 protocol.

When WebNFS was used, no permission checks (the "nfs.export-dir" option) were applied. Now the WebNFS mount-handler in Gluster/NFS calls the `mnt3_parse_dir_exports()` function that takes care of the permission checking.

Cherry picked from commit `e304f48fa262e5cdbe181fb3fee5dfb9c893108c`:

```
> BUG: 1468291
> Change-Id: Ic9dfd092473ba9c1c7b5fa38401cf9c0aa8395bb
> Signed-off-by: Niels de Vos <ndevos@redhat.com>
> Reviewed-on: https://review.gluster.org/17718
> Smoke: Gluster Build System <jenkins@build.gluster.org>
> Reviewed-by: soumya k <skoduri@redhat.com>
> CentOS-regression: Gluster Build System <jenkins@build.gluster.org>
> Reviewed-by: Kaleb KEITHLEY <kkeithle@redhat.com>
```

Change-Id: `Ic9dfd092473ba9c1c7b5fa38401cf9c0aa8395bb`

BUG: 1451224

Signed-off-by: Niels de Vos <ndevos@redhat.com>

Reviewed-on: <https://code.engineering.redhat.com/gerrit/111770>

Reviewed-by: Atin Mukherjee <amukherj@redhat.com>

```
xlators/nfs/server/src/mount3.c | 60 ++++++-----
xlators/nfs/server/src/mount3.h | 7 +++++
xlators/nfs/server/src/nfs-common.c | 25 ++++++-----
xlators/nfs/server/src/nfs3.c | 71 ++++++-----
4 files changed, 100 insertions(+), 63 deletions(-)
```

```
diff --git a/xlators/nfs/server/src/mount3.c b/xlators/nfs/server/src/mount3.c
index b735038..a5b081b 100644
```

```
--- a/xlators/nfs/server/src/mount3.c
```

```
+++ b/xlators/nfs/server/src/mount3.c
```

```
@@ -945,7 +945,7 @@ err:
```

```
* we need to strip out the volume name first.
```

```
*/
```

```
char *
```

```
-__volume_subdir (char *dirpath, char **volname)
```

```
+mnt3_get_volume_subdir (char *dirpath, char **volname)
```

```
{
```

```
    char *subdir = NULL;
```

```
    int volname_len = 0;
```

```
@@ -1024,10 +1024,6 @@ mnt3_resolve_subdir_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
    struct iatt *buf, dict_t *xattr,
    struct iatt *postparent);
```

```
-int
```

```

-mnt3_parse_dir_exports (rpcsvc_request_t *req, struct mount3_state *ms,
-         char *subdir);
-
int32_t
mnt3_readlink_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
        int32_t op_ret, int32_t op_errno, const char *path,
@@ -1310,7 +1306,8 @@ mnt3_readlink_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
/* After the resolving the symlink , parsing should be done
* for the populated mount path
*/
-   ret = mnt3_parse_dir_exports (mres->req, mres->mstate, real_loc);
+   ret = mnt3_parse_dir_exports (mres->req, mres->mstate, real_loc,
+         _gf_true);

if (ret) {
        gf_msg (GF_MNT, GF_LOG_ERROR, 0, NFS_MSG_RESOLVE_ERROR,
@@ -1518,7 +1515,8 @@ mnt3_verify_auth (struct sockaddr_in *client_addr, struct mnt3_export *export)

int
mnt3_resolve_subdir (rpcsvc_request_t *req, struct mount3_state *ms,
-         struct mnt3_export *exp, char *subdir)
+         struct mnt3_export *exp, char *subdir,
+         gf_boolean_t send_reply)
{
    mnt3_resolve_t    *mres = NULL;
    int                ret = -EFAULT;
@@ -1542,6 +1540,10 @@ mnt3_resolve_subdir (rpcsvc_request_t *req, struct mount3_state *ms,
    }
}

+ /* no reply is needed (WebNFS permissions checking), just return */
+ if (!send_reply)
+     return 0; /* no error, mnt3_verify_auth() allowed it */
+
mres = GF_CALLOC (1, sizeof (mnt3_resolve_t), gf_nfs_mt_mnt3_resolve);
if (!mres) {
    gf_msg (GF_MNT, GF_LOG_ERROR, ENOMEM, NFS_MSG_NO_MEMORY,
@@ -1586,11 +1588,11 @@ mnt3_resolve_export_subdir (rpcsvc_request_t *req, struct mount3_state *ms,
if ((!req) || (!ms) || (!exp))
    return ret;

-   volume_subdir = __volume_subdir (exp->expname, NULL);
+   volume_subdir = mnt3_get_volume_subdir (exp->expname, NULL);
if (!volume_subdir)
    goto err;

-   ret = mnt3_resolve_subdir (req, ms, exp, volume_subdir);
+   ret = mnt3_resolve_subdir (req, ms, exp, volume_subdir, _gf_true);

```

```

    if (ret < 0) {
        gf_msg (GF_MNT, GF_LOG_ERROR, ret, NFS_MSG_RESOLVE_SUBDIR_FAIL,
            "Failed to resolve export dir: %s", exp->expname);
@@ -1687,7 +1689,7 @@ err:
        return ret;
    }

-static int
+int
mnt3_check_client_net_tcp (rpcsvc_request_t *req, char *volname)
{
    rpcsvc_t      *svc = NULL;
@@ -1761,25 +1763,41 @@ err:

int
mnt3_parse_dir_exports (rpcsvc_request_t *req, struct mount3_state *ms,
-    char *subdir)
+    char *path, gf_boolean_t send_reply)
{
    char          volname[1024] = {0, };
    struct mnt3_export *exp = NULL;
    char          *volname_ptr = NULL;
+    char          *subdir = NULL;
    int           ret = -ENOENT;
    struct nfs_state *nfs = NULL;

-    if ((!ms) || (!subdir))
+    if ((!ms) || (!path))
        return -1;

    volname_ptr = volname;
-    subdir = __volume_subdir (subdir, &volname_ptr);
-    if (!subdir)
+    subdir = mnt3_get_volume_subdir (path, &volname_ptr);
+    if (!subdir) {
+        gf_msg_trace (GF_MNT, 0, "Could not parse volname/subdir from "
+            "%s", path);
+        goto err;
+    }

-    exp = mnt3_mntpath_to_export (ms, volname, _gf_false);
-    if (!exp)
-        goto err;
+    /* first try to match the full export/subdir */
+    exp = mnt3_mntpath_to_export (ms, path, _gf_false);
+    if (!exp) {
+        gf_msg_trace (GF_MNT, 0, "Could not find exact matching export "
+            "for path=%s", path);

```

```

+     /* if no exact match is found, look for a fallback */
+     exp = mnt3_mntpath_to_export (ms, volname, _gf_true);
+     if (!exp) {
+         gf_msg_trace (GF_MNT, 0, "Could not find export for "
+             "volume %s", volname);
+         goto err;
+     }
+ }
+ gf_msg_trace (GF_MNT, 0, "volume %s and export %s will be used for "
+     "path %s", exp->vol->name, exp->expname, path);

nfs = (struct nfs_state *)ms->nfsx->private;
if (!nfs)
@@ -1798,7 +1816,7 @@ mnt3_parse_dir_exports (rpcsvc_request_t *req, struct mount3_state *ms,
    goto err;
}

- ret = mnt3_resolve_subdir (req, ms, exp, subdir);
+ ret = mnt3_resolve_subdir (req, ms, exp, subdir, send_reply);
if (ret < 0) {
    gf_msg (GF_MNT, GF_LOG_ERROR, ret, NFS_MSG_RESOLVE_SUBDIR_FAIL,
        "Failed to resolve export dir: %s", subdir);
@@ -1841,7 +1859,7 @@ mnt3_find_export (rpcsvc_request_t *req, char *path, struct mnt3_export **e)
    goto err;
}

- ret = mnt3_parse_dir_exports (req, ms, path);
+ ret = mnt3_parse_dir_exports (req, ms, path, _gf_true);

err:
return ret;
@@ -2914,7 +2932,7 @@ nfs3_rootfh (struct svc_req *req, xlator_t *nfsx,
* 3. If a subdir is exported using nfs.export-dir,
* then the mount type would be MNT3_EXPTYPE_DIR,
* so make sure to find the proper path to be
- * resolved using __volume_subdir()
+ * resolved using mnt3_get_volume_subdir()
* 3. Make sure subdir export is allowed.
*/
ms = __mnt3udp_get_mstate(nfsx);
@@ -2937,7 +2955,7 @@ nfs3_rootfh (struct svc_req *req, xlator_t *nfsx,
return NULL;
}

- path = __volume_subdir (path, &volptr);
+ path = mnt3_get_volume_subdir (path, &volptr);
if (exp == NULL)
    exp = mnt3_mntpath_to_export (ms, volname , _gf_false);

```

```

    }
diff --git a/xlators/nfs/server/src/mount3.h b/xlators/nfs/server/src/mount3.h
index ce01a6c..8868aec 100644
--- a/xlators/nfs/server/src/mount3.h
+++ b/xlators/nfs/server/src/mount3.h
@@ -178,4 +178,11 @@ struct mount3_resolve_state {

typedef struct mount3_resolve_state mnt3_resolve_t;

+int
+mnt3_parse_dir_exports (rpcsvc_request_t *req, struct mount3_state *ms,
+                        char *subdir, gf_boolean_t send_reply);
+
+char*
+mnt3_get_volume_subdir (char *path, char **volname);
+
#endif
diff --git a/xlators/nfs/server/src/nfs-common.c b/xlators/nfs/server/src/nfs-common.c
index 5269188..2f742d4 100644
--- a/xlators/nfs/server/src/nfs-common.c
+++ b/xlators/nfs/server/src/nfs-common.c
@@ -73,8 +73,8 @@ nfs_xlator_to_xlid (xlator_list_t *cl, xlator_t *xl)
xlator_t *
nfs_mntpath_to_xlator (xlator_list_t *cl, char *path)
{
-   char      *volname = NULL;
-   char      *volptr  = NULL;
+   char      *volname = NULL; /* volume name only */
+   char      *volptr  = NULL; /* ptr to original volname */
   size_t     pathlen  = -1;
   xlator_t   *targetxl = NULL;
   int        i        = 0;
@@ -82,14 +82,16 @@ nfs_mntpath_to_xlator (xlator_list_t *cl, char *path)
   if ((!cl) || (!path))
       return NULL;

-   volname = strdupa (path);
-   pathlen = strlen (volname);
   gf_msg_trace (GF_NFS, 0, "Subvolume search: %s", path);
+
+   volname = volptr = gf_strdup (path);
+   if (!volname)
+       return NULL;
+
   if (volname[0] == '/')
-       volptr = &volname[1];
-   else
-       volptr = &volname[0];

```

```

+     volname++;

+     pathlen = strlen (volname);
+     for (i = 0; i < pathlen; i++) {
+         if (volname[i] == '/') {
+             volname[i] = '\0';
@@ -98,10 +100,10 @@ nfs_mntpath_to_xlator (xlator_list_t *cl, char *path)
+     }

+     while (cl) {
-         gf_msg_trace (GF_NFS, 0, "Volptr: %s and cl->xlator->name: %s",
-             volptr, cl->xlator->name);
+         gf_msg_trace (GF_NFS, 0, "Volname: %s and cl->xlator->name: %s",
+             volname, cl->xlator->name);

-         if (strcmp (volptr, cl->xlator->name) == 0) {
+         if (strcmp (volname, cl->xlator->name) == 0) {
+             targetxl = cl->xlator;
+             break;
+         }
@@ -109,8 +111,9 @@ nfs_mntpath_to_xlator (xlator_list_t *cl, char *path)
+         cl = cl->next;
+     }

-     return targetxl;
+     GF_FREE (volptr);

+     return targetxl;
+ }

```

```
diff --git a/xlators/nfs/server/src/nfs3.c b/xlators/nfs/server/src/nfs3.c
```

```
index bb68bc1..7443dbc 100644
```

```
--- a/xlators/nfs/server/src/nfs3.c
```

```
+++ b/xlators/nfs/server/src/nfs3.c
```

```
@@ -349,44 +349,51 @@ out:
```

```
}
```

```
-static enum nfsstat3
```

```
-nfs3_funge_webnfs_zerolen_fh (struct nfs3_state *nfs3st, struct nfs3_fh *fhd,
```

```
-     char *name)
```

```
+static int
```

```
+nfs3_funge_webnfs_zerolen_fh (rpcsvc_request_t *req, struct nfs3_state *nfs3st,
```

```
+     struct nfs3_fh *fhd, char *name)
```

```
{
```

```
-     xlator_t     *fungexl = NULL;
```

```
-     glfs_t       *fs      = NULL;
```

```

-   loc_t      loc    = { 0, };
-   enum nfsstat3  nfsstat = NFS3ERR_SERVERFAULT;
-   int        ret    = -1;
-   size_t     namelen = -1;
+   xlator_t    *fungexl    = NULL;
+   struct nfs_state *nfs    = NULL;
+   glfs_t      *fs        = NULL;
+   loc_t      loc        = { 0, };
+   int        ret        = -1;
+   char       *subdir     = NULL;
+   char       volname[NAME_MAX] = { 0, };

fungexl = nfs_mntpath_to_xlator (nfs3st->exportslist, name);
if (!fungexl) {
-   nfsstat = NFS3ERR_NOENT;
+   gf_msg_trace (GF_NFS3, 0, "failed to find xlator for volume");
+   ret = -ENOENT;
+   goto out;
+ }
+ /* fungexl is valid, set for nfs3_request_xlator_deviceid() */
+ rpcsvc_request_set_private (req, fungexl);
+
+ /* Permission checks are done through mnt3_parse_dir_exports(). The
+  * "nfs.export-dir" option gets checked as well. */
+ nfs = nfs_state (nfs3st->nfsx);
+ ret = mnt3_parse_dir_exports (req, nfs->mstate, name, _gf_false);
+ if (ret) {
+   gf_msg_trace (GF_NFS3, -ret, "mounting not possible");
+   goto out;
+ }

/* glfs_resolve_at copied from UDP MNT support */
fs = glfs_new_from_ctx (fungexl->ctx);
if (!fs) {
-   nfsstat = NFS3ERR_NOENT;
+   gf_msg_trace (GF_NFS3, 0, "failed to create glfs instance");
+   ret = -ENOENT;
+   goto out;
+ }

- /* strip volname/ from 'name' */
- namelen = strlen(name);
- while (namelen != 0) {
-   name++;
-   if (name[0] == '/') {
-     break;
-   }
-   namelen--;

```



```

-   }
-   gf_msg_debug (GF_NFS, 0, "NAME :%s ", name);
+   /* split name "volname/sub/dir/s" into pieces */
+   subdir = mnt3_get_volume_subdir (name, (char**) &volname);

-   ret = glfs_resolve_at (fs, fungexl, NULL, name, &loc, NULL, 1, 0);
+   ret = glfs_resolve_at (fs, fungexl, NULL, subdir, &loc, NULL, 1, 0);
if (ret != 0) {
-   nfsstat = NFS3ERR_NOENT;
+   gf_msg_trace (GF_NFS3, 0, "failed to resolve %s", subdir);
+   ret = -ENOENT;
    goto out;
}

@@ -399,17 +406,17 @@ nfs3_funge_webnfs_zerolen_fh (struct nfs3_state *nfs3st, struct nfs3_fh *fhd,
                                fungexl);
    else {
        if (__nfs3_get_volume_id (nfs3st, fungexl, fhd->exportid) < 0) {
-            nfsstat = NFS3ERR_STALE;
+            ret = -ESTALE;
            goto out;
        }
    }

-   nfsstat = NFS3_OK;
+   ret = 0;
out:
if (fs)
    glfs_free_from_ctx (fs);

-   return nfsstat;
+   return ret;
}

@@@ -470,8 +477,10 @@@ nfs3_solaris_zerolen_fh (struct nfs3_fh *fh, int fhlen)
if (nfs3_fh_validate (fh))
    return 0;

-   if (fhlen == 0)
+   if (fhlen == 0) {
+       gf_msg_trace (GF_NFS3, 0, "received WebNFS request");
        return 1;
+   }

    return 0;
}

@@@ -1544,8 +1553,8 @@@ nfs3_lookup (rpcsvc_request_t *req, struct nfs3_fh *fh, int fhlen, char *name)

```

```

        name);
nfs3_validate_nfs3_state (req, nfs3, stat, nfs3err, ret);
if (nfs3_solaris_zerolen_fh (fh, fhlen)) {
-     stat = nfs3_funge_webnfs_zerolen_fh (nfs3, fh, name);
-     if (stat != NFS3_OK)
+     ret = nfs3_funge_webnfs_zerolen_fh (req, nfs3, fh, name);
+     if (ret < 0)
        goto nfs3err;

        /* this fh means we're doing a mount, name is no more useful */
@@ -1564,12 +1573,12 @@ nfs3_lookup (rpcsvc_request_t *req, struct nfs3_fh *fh, int fhlen, char *name)
    if (ret < 0) {
        gf_msg (GF_NFS, GF_LOG_ERROR, -ret,
                NFS_MSG_HARD_RESOLVE_FAIL,
-                "failed to start hard reslove");
-        stat = nfs3_errno_to_nfsstat3 (-ret);
+                "failed to start hard resolve");
    }

nfs3err:
    if (ret < 0) {
+        stat = nfs3_errno_to_nfsstat3 (-ret);
        nfs3_log_common_res (rpcsvc_request_xid (req),
                            NFS3_LOOKUP, stat, -ret,
                            cs ? cs->resolvedloc.path : NULL);
--

```

1.8.3.1

From e054a627d7eaeede423bc25a6c1cc472b2526846 Mon Sep 17 00:00:00 2001

From: Poornima G <pgurusid@redhat.com>

Date: Wed, 24 Aug 2016 09:55:32 +0530

Subject: [PATCH 126/141] upcall: Add permission change flag to iatt flag

Currently IATT_UPDATE_FLAGS is (UP_NLINK | UP_MODE | UP_OWN | UP_SIZE | UP_TIMES | UP_ETIME). But it should also have UP_PERM and permission bits are apart of IATT.

This change will have no effect on the existing users as IATT_UPDATE_FLAGS is currently used only by md-cache. And the changes in md-cache to consume cache invalidation is not part of any release yet.

Change-Id: I7efad44972add152f5f981d733fb8191dc7ef8ef

BUG: 1284873

Signed-off-by: Poornima G <pgurusid@redhat.com>

Reviewed-on: <http://review.gluster.org/15301>

NetBSD-regression: NetBSD Build System <jenkins@build.gluster.org>

CentOS-regression: Gluster Build System <jenkins@build.gluster.org>

Smoke: Gluster Build System <jenkins@build.gluster.org>

Reviewed-by: Raghavendra G <rgowdapp@redhat.com>

Reviewed-by: Prashanth Pai <ppai@redhat.com>
Reviewed-by: Jeff Darcy <jdarcy@redhat.com>
Reviewed-on: <https://code.engineering.redhat.com/gerrit/87039>
Reviewed-by: Rajesh Joseph <rjoseph@redhat.com>
Tested-by: Rajesh Joseph <rjoseph@redhat.com>

libglusterfs/src/upcall-utils.h | 2 +-
1 files changed, 1 insertions(+), 1 deletions(-)

```
diff --git a/libglusterfs/src/upcall-utils.h b/libglusterfs/src/upcall-utils.h
index f4b15e3..64571c5 100644
--- a/libglusterfs/src/upcall-utils.h
+++ b/libglusterfs/src/upcall-utils.h
@@ -53,7 +53,7 @@
#define UP_NLINK_FLAGS      (UP_NLINK | UP_TIMES)

#define IATT_UPDATE_FLAGS   (UP_NLINK | UP_MODE | UP_OWN | UP_SIZE | \
-      UP_TIMES | UP_ETIME)
+      UP_TIMES | UP_ETIME | UP_PERM)

typedef enum {
    GF_UPCALL_EVENT_NULL,
```

--

1.7.1

From a2cb732a71d341edb65e4cdbf103a3fec35e8589 Mon Sep 17 00:00:00 2001

From: Susant Palai <spalai@redhat.com>

Date: Wed, 17 Aug 2016 15:10:04 +0530

Subject: [PATCH 72/86] cluster/dht: heal root permission post add-brick

Post add-brick event the new brick will have permission of 755 by default. If the root directory permission was other than 755, that does not get healed to the new brick leading to permission errors/inconsistencies.

For choosing source of attr heal we can trust the subvols which have layouts with latest ctime(as part of missing directory heal, we heal the proper attr). In case none of the subvols have layout, return ESTALE to retrigger a fresh lookup.

Note: This patch heals the permission of the root directories only. Since, permission healing of directory is not straight forward and required intrusive fix, those are not addressed here.

> Reviewed-on: <http://review.gluster.org/15195>
> Smoke: Gluster Build System <jenkins@build.gluster.org>
> CentOS-regression: Gluster Build System <jenkins@build.gluster.org>
> NetBSD-regression: NetBSD Build System <jenkins@build.gluster.org>
> Reviewed-by: Raghavendra G <rgowdapp@redhat.com>

>Reviewed-on: <http://review.gluster.org/15465>
>Smoke: Gluster Build System <jenkins@build.gluster.org>
>NetBSD-regression: NetBSD Build System <jenkins@build.gluster.org>
>CentOS-regression: Gluster Build System <jenkins@build.gluster.org>
>Reviewed-by: Raghavendra G <rgowdapp@redhat.com>

Change-Id: If894e3895d070d46b62d2452e52c1eaafcf56c29

BUG: 1294035

Signed-off-by: Susant Palai <spalai@redhat.com>

Reviewed-on: <https://code.engineering.redhat.com/gerrit/84877>

Reviewed-by: Atin Mukherjee <amukherj@redhat.com>

Tested-by: Atin Mukherjee <amukherj@redhat.com>

```
tests/bugs/distribute/bug-1368012.t | 50 ++++++
xlators/cluster/dht/src/dht-common.c | 32 ++++++
xlators/cluster/dht/src/dht-selfheal.c | 16 ++++++
3 files changed, 93 insertions(+), 5 deletions(-)
create mode 100644 tests/bugs/distribute/bug-1368012.t
```

diff --git a/tests/bugs/distribute/bug-1368012.t b/tests/bugs/distribute/bug-1368012.t

new file mode 100644

index 0000000..f89314b

--- /dev/null

+++ b/tests/bugs/distribute/bug-1368012.t

@@ -0,0 +1,50 @@

#!/bin/bash

+

+. \$(dirname \$0)/../include.rc

+. \$(dirname \$0)/../volume.rc

+

+cleanup;

+

+function get_permission {

+ stat -c "%A" \$1

+}

+

Start glusterd

+TEST glusterd;

+TEST pidof glusterd;

+TEST \$CLI volume info;

+

Lets create volume

+TEST \$CLI volume create \$V0 \$H0:/\${V0}{1,2};

+

Verify volume is created

+EXPECT "\$V0" volinfo_field \$V0 'Volume Name';

+EXPECT 'Created' volinfo_field \$V0 'Status';

```

+## Start volume and verify
+TEST $CLI volume start $V0;
+TEST $CLI volume set $V0 performance.stat-prefetch off
+EXPECT 'Started' volinfo_field $V0 'Status';
+TEST glusterfs -s $H0 --volfile-id=$V0 $M0
+
+##Test case: Add-brick
+#-----
+#change permission of both root
+TEST chmod 444 $M0
+
+#store permission for comparision
+TEST permission_root=`stat -c "%A" $M0`
+TEST echo $permission_root
+#Add-brick
+TEST $CLI volume add-brick $V0 $H0:${V0}3
+
+#Allow one lookup to happen
+TEST pushd $M0
+TEST ls
+#Generate another lookup
+echo 3 > /proc/sys/vm/drop_caches
+TEST ls
+#check root permission
+EXPECT_WITHIN "5" $permission_root get_permission $M0
+#check permission on the new-brick
+EXPECT $permission_root get_permission /${V0}3
+cleanup
diff --git a/xlators/cluster/dht/src/dht-common.c b/xlators/cluster/dht/src/dht-common.c
index 5fd0a16..2eb44a1 100644
--- a/xlators/cluster/dht/src/dht-common.c
+++ b/xlators/cluster/dht/src/dht-common.c
@@ -735,6 +735,27 @@ out:
     return ret;
 }

+int static
+is_permission_different (ia_prot_t *prot1, ia_prot_t *prot2)
+{
+    if ((prot1->owner.read != prot2->owner.read) ||
+        (prot1->owner.write != prot2->owner.write) ||
+        (prot1->owner.exec != prot2->owner.exec) ||
+        (prot1->group.read != prot2->group.read) ||
+        (prot1->group.write != prot2->group.write) ||
+        (prot1->group.exec != prot2->group.exec) ||
+        (prot1->other.read != prot2->other.read) ||
+        (prot1->other.write != prot2->other.write) ||
+        (prot1->other.exec != prot2->other.exec) ||

```

```

+     (prot1->suid != prot2->suid) ||
+     (prot1->sgid != prot2->sgid) ||
+     (prot1->sticky != prot2->sticky)) {
+         return 1;
+     } else {
+         return 0;
+     }
+ }
+
int
dht_revalidate_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
                   int op_ret, int op_errno,
@@ -856,14 +877,21 @@ dht_revalidate_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
                        local->stbuf.ia_ctime_nsec,
                        stbuf->ia_ctime,
                        stbuf->ia_ctime_nsec)) {
+
+     /* Choose source */
+     local->prebuf.ia_gid = stbuf->ia_gid;
+     local->prebuf.ia_uid = stbuf->ia_uid;
+
+     if (__is_root_gfid (stbuf->ia_gfid))
+         local->prebuf.ia_prot = stbuf->ia_prot;
+
+     }
+
+     if (local->stbuf.ia_type != IA_INVALID)
+     {
+         if ((local->stbuf.ia_gid != stbuf->ia_gid) ||
-         (local->stbuf.ia_uid != stbuf->ia_uid)) {
+         (local->stbuf.ia_uid != stbuf->ia_uid) ||
+         (__is_root_gfid (stbuf->ia_gfid) &&
+         is_permission_different (&local->stbuf.ia_prot,
+         &stbuf->ia_prot))) {
+             local->need_selfheal = 1;
+         }
+     }
+
@@ -928,6 +956,8 @@ out:
    gf_uuid_copy (local->gfid, local->stbuf.ia_gfid);
    local->stbuf.ia_gid = local->prebuf.ia_gid;
    local->stbuf.ia_uid = local->prebuf.ia_uid;
+
+    if (__is_root_gfid(local->stbuf.ia_gfid))
+        local->stbuf.ia_prot = local->prebuf.ia_prot;
    copy = create_frame (this, this->ctx->pool);
    if (copy) {
        copy_local = dht_local_init (copy, &local->loc,
diff --git a/xlators/cluster/dht/src/dht-selfheal.c b/xlators/cluster/dht/src/dht-selfheal.c
index 520a3f3..f43a235 100644
--- a/xlators/cluster/dht/src/dht-selfheal.c
+++ b/xlators/cluster/dht/src/dht-selfheal.c

```

```
@@ -2240,11 +2240,19 @@ dht_dir_attr_heal (void *data)
```

```
    for (i = 0; i < call_cnt; i++) {
        subvol = conf->subvolumes[i];
-       if (!subvol || (subvol == dht_first_up_subvol (this)))
+       if (!subvol)
            continue;
-       ret = syncop_setattr (subvol, &local->loc, &local->stbuf,
-                             (GF_SET_ATTR_UID | GF_SET_ATTR_GID),
-                             NULL, NULL, NULL, NULL);
+
+       if (__is_root_gfid (local->stbuf.ia_gfid)) {
+           ret = syncop_setattr (subvol, &local->loc, &local->stbuf,
+                                 (GF_SET_ATTR_UID | GF_SET_ATTR_GID | GF_SET_ATTR_MODE),
+                                 NULL, NULL, NULL, NULL);
+       } else {
+           ret = syncop_setattr (subvol, &local->loc, &local->stbuf,
+                                 (GF_SET_ATTR_UID | GF_SET_ATTR_GID),
+                                 NULL, NULL, NULL, NULL);
+       }
+
        if (ret) {
            gf_uuid_unparse(local->loc.gfid, gfid);

```

--

1.7.1

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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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```
From e054a627d7eaeede423bc25a6c1cc472b2526846 Mon Sep 17 00:00:00 2001
From: Poornima G <pgurusid@redhat.com>
Date: Wed, 24 Aug 2016 09:55:32 +0530
Subject: [PATCH 126/141] upcall: Add permission change flag to iatt flag
```

Currently IATT_UPDATE_FLAGS is (UP_NLINK | UP_MODE | UP_OWN | UP_SIZE |
UP_TIMES | UP_ETIME). But it should also have UP_PERM and permission bits
are apart of IATT.

This change will have no effect on the existing users as IATT_UPDATE_FLAGS is currently used only by md-cache. And the changes in md-cache to consume cache invalidation is not part of any release yet.

Change-Id: I7efad44972add152f5f981d733fb8191dc7ef8ef

BUG: 1284873

Signed-off-by: Poornima G <pgurusid@redhat.com>

Reviewed-on: <http://review.gluster.org/15301>

NetBSD-regression: NetBSD Build System <jenkins@build.gluster.org>

CentOS-regression: Gluster Build System <jenkins@build.gluster.org>

Smoke: Gluster Build System <jenkins@build.gluster.org>

Reviewed-by: Raghavendra G <rgowdapp@redhat.com>

Reviewed-by: Prashanth Pai <ppai@redhat.com>

Reviewed-by: Jeff Darcy <jdarcy@redhat.com>

Reviewed-on: <https://code.engineering.redhat.com/gerrit/87039>

Reviewed-by: Rajesh Joseph <rjoseph@redhat.com>

Tested-by: Rajesh Joseph <rjoseph@redhat.com>

libglusterfs/src/upcall-utils.h | 2 +-
1 files changed, 1 insertions(+), 1 deletions(-)

```
diff --git a/libglusterfs/src/upcall-utils.h b/libglusterfs/src/upcall-utils.h
```

```
index f4b15e3..64571c5 100644
```

```
--- a/libglusterfs/src/upcall-utils.h
```

```
+++ b/libglusterfs/src/upcall-utils.h
```

```
@@ -53,7 +53,7 @@
```

```
#define UP_NLINK_FLAGS      (UP_NLINK | UP_TIMES)
```

```
#define IATT_UPDATE_FLAGS  (UP_NLINK | UP_MODE | UP_OWN | UP_SIZE | \
```

```
-      UP_TIMES | UP_ETIME)
```

```
+      UP_TIMES | UP_ETIME | UP_PERM)
```

```
typedef enum {
```

```
    GF_UPCALL_EVENT_NULL,
```

```
--
```

1.7.1

From a2cb732a71d341edb65e4cddf103a3fec35e8589 Mon Sep 17 00:00:00 2001

From: Susant Palai <spalai@redhat.com>

Date: Wed, 17 Aug 2016 15:10:04 +0530

Subject: [PATCH 72/86] cluster/dht: heal root permission post add-brick

Post add-brick event the new brick will have permission of 755 by default. If the root directory permission was other than 755, that does not get healed to the new brick leading to permission errors/inconsistencies.

For choosing source of attr heal we can trust the subvols which have layouts with latest ctime(as part of missing directory heal,

we heal the proper attr). In case none of the subvols have layout, return ESTALE to retrigger a fresh lookup.

Note: This patch heals the permission of the root directories only. Since, permission healing of directory is not straight forward and required intrusive fix, those are not addressed here.

> Reviewed-on: <http://review.gluster.org/15195>
> Smoke: Gluster Build System <jenkins@build.gluster.org>
> CentOS-regression: Gluster Build System <jenkins@build.gluster.org>
> NetBSD-regression: NetBSD Build System <jenkins@build.gluster.org>
> Reviewed-by: Raghavendra G <rgowdapp@redhat.com>

> Reviewed-on: <http://review.gluster.org/15465>
> Smoke: Gluster Build System <jenkins@build.gluster.org>
> NetBSD-regression: NetBSD Build System <jenkins@build.gluster.org>
> CentOS-regression: Gluster Build System <jenkins@build.gluster.org>
> Reviewed-by: Raghavendra G <rgowdapp@redhat.com>

Change-Id: If894e3895d070d46b62d2452e52c1eaafcf56c29

BUG: 1294035

Signed-off-by: Susant Palai <spalai@redhat.com>

Reviewed-on: <https://code.engineering.redhat.com/gerrit/84877>

Reviewed-by: Atin Mukherjee <amukherj@redhat.com>

Tested-by: Atin Mukherjee <amukherj@redhat.com>

```
tests/bugs/distribute/bug-1368012.t | 50 ++++++
xlators/cluster/dht/src/dht-common.c | 32 ++++++
xlators/cluster/dht/src/dht-selfheal.c | 16 ++++++
3 files changed, 93 insertions(+), 5 deletions(-)
create mode 100644 tests/bugs/distribute/bug-1368012.t
```

```
diff --git a/tests/bugs/distribute/bug-1368012.t b/tests/bugs/distribute/bug-1368012.t
```

```
new file mode 100644
```

```
index 0000000..f89314b
```

```
--- /dev/null
```

```
+++ b/tests/bugs/distribute/bug-1368012.t
```

```
@@ -0,0 +1,50 @@
```

```
#!/bin/bash
```

```
+
```

```
+. $(dirname $0)/../include.rc
```

```
+. $(dirname $0)/../volume.rc
```

```
+
```

```
+cleanup;
```

```
+
```

```
+function get_permission {
```

```
+   stat -c "%A" $1
```

```
+}
```

```

+
+## Start glusterd
+TEST glusterd;
+TEST pidof glusterd;
+TEST $CLI volume info;
+
+## Lets create volume
+TEST $CLI volume create $V0 $H0:${V0}{1,2};
+
+## Verify volume is created
+EXPECT "$V0" volinfo_field $V0 'Volume Name';
+EXPECT 'Created' volinfo_field $V0 'Status';
+## Start volume and verify
+TEST $CLI volume start $V0;
+TEST $CLI volume set $V0 performance.stat-prefetch off
+EXPECT 'Started' volinfo_field $V0 'Status';
+TEST glusterfs -s $H0 --volfile-id=$V0 $M0
+
+##Test case: Add-brick
+#-----
+#change permission of both root
+TEST chmod 444 $M0
+
+#store permission for comparision
+TEST permission_root=`stat -c "%A" $M0`
+TEST echo $permission_root
+#Add-brick
+TEST $CLI volume add-brick $V0 $H0:${V0}3
+
+#Allow one lookup to happen
+TEST pushd $M0
+TEST ls
+#Generate another lookup
+echo 3 > /proc/sys/vm/drop_caches
+TEST ls
+#check root permission
+EXPECT_WITHIN "5" $permission_root get_permission $M0
+#check permission on the new-brick
+EXPECT $permission_root get_permission /${V0}3
+cleanup
diff --git a/xlators/cluster/dht/src/dht-common.c b/xlators/cluster/dht/src/dht-common.c
index 5fd0a16..2eb44a1 100644
--- a/xlators/cluster/dht/src/dht-common.c
+++ b/xlators/cluster/dht/src/dht-common.c
@@ -735,6 +735,27 @@ out:
     return ret;
}

```

```

+int static
+is_permission_different (ia_prot_t *prot1, ia_prot_t *prot2)
+{
+    if ((prot1->owner.read != prot2->owner.read) ||
+        (prot1->owner.write != prot2->owner.write) ||
+        (prot1->owner.exec != prot2->owner.exec) ||
+        (prot1->group.read != prot2->group.read) ||
+        (prot1->group.write != prot2->group.write) ||
+        (prot1->group.exec != prot2->group.exec) ||
+        (prot1->other.read != prot2->other.read) ||
+        (prot1->other.write != prot2->other.write) ||
+        (prot1->other.exec != prot2->other.exec) ||
+        (prot1->suid != prot2->suid) ||
+        (prot1->sgid != prot2->sgid) ||
+        (prot1->sticky != prot2->sticky)) {
+        return 1;
+    } else {
+        return 0;
+    }
+}
+
int
dht_revalidate_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
                  int op_ret, int op_errno,
@@ -856,14 +877,21 @@ dht_revalidate_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
                    local->stbuf.ia_ctime_nsec,
                    stbuf->ia_ctime,
                    stbuf->ia_ctime_nsec)) {
+
+    /* Choose source */
+    local->prebuf.ia_gid = stbuf->ia_gid;
+    local->prebuf.ia_uid = stbuf->ia_uid;
+
+    if (__is_root_gfid (stbuf->ia_gfid))
+        local->prebuf.ia_prot = stbuf->ia_prot;
+
+    }
+
+    if (local->stbuf.ia_type != IA_INVALID)
+    {
+        if ((local->stbuf.ia_gid != stbuf->ia_gid) ||
-         (local->stbuf.ia_uid != stbuf->ia_uid)) {
+         (local->stbuf.ia_uid != stbuf->ia_uid) ||
+         (__is_root_gfid (stbuf->ia_gfid) &&
+         is_permission_different (&local->stbuf.ia_prot,
+         &stbuf->ia_prot))) {
+             local->need_selfheal = 1;
+         }
+     }
+
+    }
@@ -928,6 +956,8 @@ out:

```

```

gf_uuid_copy (local->gfid, local->stbuf.ia_gfid);
local->stbuf.ia_gid = local->prebuf.ia_gid;
local->stbuf.ia_uid = local->prebuf.ia_uid;
+   if (__is_root_gfid(local->stbuf.ia_gfid))
+       local->stbuf.ia_prot = local->prebuf.ia_prot;
copy = create_frame (this, this->ctx->pool);
if (copy) {
    copy_local = dht_local_init (copy, &local->loc,
diff --git a/xlators/cluster/dht/src/dht-selfheal.c b/xlators/cluster/dht/src/dht-selfheal.c
index 520a3f3..f43a235 100644
--- a/xlators/cluster/dht/src/dht-selfheal.c
+++ b/xlators/cluster/dht/src/dht-selfheal.c
@@ -2240,11 +2240,19 @@ dht_dir_attr_heal (void *data)

    for (i = 0; i < call_cnt; i++) {
        subvol = conf->subvolumes[i];
-       if (!subvol || (subvol == dht_first_up_subvol (this)))
+       if (!subvol)
            continue;
-       ret = syncop_setattr (subvol, &local->loc, &local->stbuf,
-                             (GF_SET_ATTR_UID | GF_SET_ATTR_GID),
-                             NULL, NULL, NULL, NULL);
+
+       if (__is_root_gfid (local->stbuf.ia_gfid)) {
+           ret = syncop_setattr (subvol, &local->loc, &local->stbuf,
+                                 (GF_SET_ATTR_UID | GF_SET_ATTR_GID | GF_SET_ATTR_MODE),
+                                 NULL, NULL, NULL, NULL);
+       } else {
+           ret = syncop_setattr (subvol, &local->loc, &local->stbuf,
+                                 (GF_SET_ATTR_UID | GF_SET_ATTR_GID),
+                                 NULL, NULL, NULL, NULL);
+       }
+
        if (ret) {
            gf_uuid_unparse(local->loc.gfid, gfid);
--
1.7.1

```

1.36 gssproxy 0.7.0-4 :el7

1.36.1 Available under license :

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1.37 gssproxy 0.7.0-17 :el7

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1.38 hdparm 9.43-5 :el7-4

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

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```
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```

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

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1.39 httpd 2.4.6-45 :el7.centos

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```
# GENERATED FROM XML -- DO NOT EDIT
```

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URI: license.html.en
Content-Language: en
Content-type: text/html; charset=ISO-8859-1
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head><!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```


X

This file is generated from xml source: DO NOT EDIT

XX

X

```
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<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css" />
<script src="/style/scripts/prettify.js" type="text/javascript">
</script>
```

```
<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="/"></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> > <a href="http://httpd.apache.org/">HTTP Server</a> > <a
href="http://httpd.apache.org/docs/">Documentation</a> > <a href="/">Version 2.4</a></div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplang">
<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>
</div>
```

```
<p class="centered">Apache License<br />
Version 2.0, January 2004<br />
<a href="http://www.apache.org/licenses/">http://www.apache.org/licenses/</a><br /><br />
```

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```
<ol>
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<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>
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pointed towards suggestions on improving the documentation or server, and may be removed again by our
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HTTP Server should be directed at either our IRC channel, #httpd, on Freenode, or sent to our <a
href="http://httpd.apache.org/lists.html">mailing lists</a></div>
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  else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
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<p class="apache">Copyright 2013 The Apache Software Foundation.<br />Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a></p>
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
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}
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```

/*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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```
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=====
```

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<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
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<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css" />
<script src="/style/scripts/prettify.js" type="text/javascript">
</script>
```

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<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="/"></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> > <a href="http://httpd.apache.org/">HTTP Server</a> > <a
href="http://httpd.apache.org/docs/">Documentation</a> > <a href="/">Version 2.4</a></div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplang">
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</div>

</div>

<div class="bottomlang">

<p>Available Languages: en </p>

</div><div class="top"></div><div

class="section"><h2>Comments</h2><div

```

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href="http://httpd.apache.org/lists.html">mailing lists</a>.</div>
<script type="text/javascript"><!--><![CDATA[//><!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write('<div id="comments_thread"></div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
  }
})(window, document);
//><![></script></div><div id="footer">
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<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--><![CDATA[//><!--
if (typeof(prettyPrint) !== 'undefined') {
  prettyPrint();
}
//><![></script>
</body></html>

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*
*/

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```

/*****
* NCSA HTTPd Server
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* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*
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*
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```
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#
```

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```
/*          ZeusBench V1.01
   =====
```

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

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

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

*/

For the expat xml parser component:

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1.41 iscsi-initiator-utils 6.2.0.874-4 :el7-2

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

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*

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*

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1.44 java-1.8.0-openjdk-headless_AGPLv3

1.8.0.181-3.b13 :e17_5

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Version 3, 19 November 2007

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1.47 java-1.8.0-openjdk-headless_GPLv3

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

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```
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```

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

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

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

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```

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

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

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Ty Coon, President of Vice

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Jan Holmberg, <jan@artech.net> :

- o Memory framework
- o HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au> :

- o MISC checker redesign
- o Scheduler framework extension to support child process handling.
- o Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu> :

- o Added SMTP checker

Chris Caputo, <ccaputo@alt.net> :

- o Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com> :

- o Fixed shadowed declaration reported by -Wshadow.
- o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com> :

- o Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at 1wt.eu> :

- o Extended VRRP framework to support floating priority.

1.50 keepalived 1.3.5-1 :el7

1.50.1 Available under license :

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Version 2, June 1991

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```
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.
```

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

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

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#####

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#####

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Appendix: How to Apply These Terms to Your New Programs

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

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

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

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Jan Holmberg, <jan@artech.net> :

- o Memory framework
- o HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au> :

- o MISC checker redesign
- o Scheduler framework extension to support child process handling.
- o Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu> :

- o Added SMTP checker

Chris Caputo, <ccaputo@alt.net> :

- o Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com> :

- o Fixed shadowed declaration reported by -Wshadow.
- o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com> :

- o Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at 1wt.eu> :

- o Extended VRRP framework to support floating priority.

1.51 keyutils 1.5.8 :3.e17

1.51.1 Available under license :

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Version 2.1, February 1999

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```

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

```
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(at your option) any later version.
```

```
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```
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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1.53 krb5 1.15.1-8 :el7

1.53.1 Available under license :

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# This program is intended to be used by "make check-copyright". It
# checks for violations of the coding standards related to copyright
# and license statements in source code comments.

import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
            if text_seen:
                warn(fname, ln, 'License begins after first line of comment')
            elif code_seen:
                warn(fname, ln, 'License after code')
            elif nonlicense_seen:
                warn(fname, ln, 'License after non-license comments')
            break
    # DB2 licenses start with '/*-' and we don't want to change them.
    if line != " and line != '-':
        text_seen = True

```

```

return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'^\* ([^ ]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'\s*.*?\*/', '', line)
            line = line.strip()

            if not in_comment and '/*' in line:
                (line, sep, comment_part) = line.partition('/*')
                comment = [comment_part.strip()]
                comment_starts_at = ln
                in_comment = True
            elif in_comment and '*/' not in line:
                comment.append(line.lstrip('*').rstrip())
            elif in_comment:
                (comment_part, sep, line) = line.partition('*/')
                comment.append(comment_part.strip())
                is_license = check_comment(comment, fname, comment_starts_at,
                                          code_seen, nonlicense_seen)
                nonlicense_seen = nonlicense_seen or not is_license
                in_comment = False
            elif line.strip() != "":
                code_seen = True

        ln += 1

    for fname in sys.argv[1:]:
        if fname.startswith('./'):
            fname = fname[2:]
        f = open(fname)

```

```
lines = f.readlines()
f.close()
check_file(lines, fname)
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
```

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```
*/
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
```

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```
*/
```



```
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */  
/*
```

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```
*/  
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */  
/*
```

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cmd/krb5/kadmin/server/ipropld_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h

lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
```

```
<title>MIT Kerberos License information &mdash; MIT Kerberos Documentation</title>
```

```
<link rel="stylesheet" href="_static/agogo.css" type="text/css" />
```

```
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
```

```
<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
```

```
<script type="text/javascript">
```

```
var DOCUMENTATION_OPTIONS = {
```

```
    URL_ROOT:    '/',
```

```
    VERSION:    '1.15.1',
```

```
    COLLAPSE_INDEX: false,
```

```
    FILE_SUFFIX: '.html',
```

```
    HAS_SOURCE: true
```

```
};
```

```
</script>
```

```
<script type="text/javascript" src="_static/jquery.js"></script>
```

```
<script type="text/javascript" src="_static/underscore.js"></script>
```

```
<script type="text/javascript" src="_static/doctools.js"></script>
```

```
<link rel="author" title="About these documents" href="about.html" />
```

```
<link rel="copyright" title="Copyright" href="copyright.html" />
```

```
<link rel="top" title="MIT Kerberos Documentation" href="index.html" />
```

```
<link rel="up" title="MIT Kerberos features" href="mitK5features.html" />
```

```
<link rel="next" title="Copyright" href="copyright.html" />
```

```
<link rel="prev" title="MIT Kerberos features" href="mitK5features.html" />
```

```
</head>
```

```
<body>
```

```
<div class="header-wrapper">
```

```
<div class="header">
```

```
<h1><a href="index.html">MIT Kerberos Documentation</a></h1>
```

```

    <div class="rel">

    <a href="index.html" title="Full Table of Contents"
      accesskey="C">Contents</a> |
    <a href="mitK5features.html" title="MIT Kerberos features"
      accesskey="P">previous</a> |
    <a href="copyright.html" title="Copyright"
      accesskey="N">next</a> |
    <a href="genindex.html" title="General Index"
      accesskey="I">index</a> |
    <a href="search.html" title="Enter search criteria"
      accesskey="S">Search</a> |
    <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
    </div>
  </div>
</div>

<div class="content-wrapper">
  <div class="content">
    <div class="document">

      <div class="documentwrapper">
        <div class="bodywrapper">
          <div class="body">

            <div class="section" id="mit-kerberos-license-information">
<span id="mitk5license"></span><h1>MIT Kerberos License information<a class="headerlink" href="#mit-
kerberos-license-information" title="Permalink to this headline"></a></h1>
<div class="toctree-wrapper compound">
</div>
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<blockquote>

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<div class="highlight-python"><div class="highlight"><pre>lib/gssapi/generic/gssapi_err_generic/et</pre>

lib/gssapi/mechglue/g_accept_sec_context/c</pre>

lib/gssapi/mechglue/g_acquire_cred/c</pre>

lib/gssapi/mechglue/g_canon_name/c</pre>

lib/gssapi/mechglue/g_compare_name/c</pre>

lib/gssapi/mechglue/g_context_time/c</pre>

lib/gssapi/mechglue/g_delete_sec_context/c</pre>


```
<span class="n">kadmin</span><span class="o"></span><span class="n">server</span><span
class="o"></span><span class="n">ipropd_svc</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span
class="n">iprop</span><span class="o">.</span><span class="n">x</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span
class="n">kdb_convert</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span
class="n">kdb_log</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span
class="n">kdb_log</span><span class="o">.</span><span class="n">h</span>
<span class="n">lib</span><span class="o"></span><span class="n">krb5</span><span
class="o"></span><span class="n">error_tables</span><span class="o"></span><span
class="n">kdb5_err</span><span class="o">.</span><span class="n">et</span>
<span class="n">slave</span><span class="o"></span><span class="n">kpropd_rpc</span><span
class="o">.</span><span class="n">c</span>
<span class="n">slave</span><span class="o"></span><span class="n">kproplog</span><span
class="o">.</span><span class="n">c</span>
</pre></div>
```

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

.. parsed-literal::

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

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

.. parsed-literal::

include/ipropr_hdr.h
kadmin/server/ipropr_svc.c
lib/kdb/ipropr.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
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lib/gssapi/mechglue/g_sign.c
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lib/gssapi/mechglue/g_unseal.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c

lib/kdb/iprof.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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```

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

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1.61 libseccomp 2.3.1 :3.el7

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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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must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

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1.66 Iksctp-tools 1.0.17 :2.e17

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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.

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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.

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```
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```

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1.68 mailcap 2.1.41 :2.e17

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Tom Callaway, Fedora Legal, Red Hat
Thu Sep 17, 2009

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* Part No: 816-1331-11  
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```
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/*

* hmac.c is derived from:

Network Working Group H. Krawczyk
Request for Comments: 2104 IBM
Category: Informational M. Bellare
 UCSD
 R. Canetti
 IBM
 February 1997

HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code

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```
=====  
/*  
* imap_gssapi.c is partially derived from sample code in:  
* GSS-API Programming Guide  
* Part No: 816-1331-11  
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```

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/*

* hmac.c is derived from:

Network Working Group H. Krawczyk
Request for Comments: 2104 IBM
Category: Informational M. Bellare
 UCSD
 R. Canetti
 IBM
 February 1997

HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code

=====

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1.76 oci-register-machine 0

:3.14.gitcd1e331.e17

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1.77 oci-systemd-hook 0.1.14

:2.git9b1e622.e17

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1.79 openvswitch 2.6.1-10.1.git20161206 :el7

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.\"      Werner Lemberg <wl@gnu.org>
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lib/ldap/aa-structs.h
lib/ldap/ldapd.c
lib/ldap/ldapd.h
lib/ldap/ldapd-structs.c
lib/ldap/ldapd-structs.h
lib/ldap/ldap.c
lib/ldap/ldap-tlv.h
lib/ldap/ldap-const.h
```

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References

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sFlow Specification, located at

[1]<http://sflow.org/developers/specifications.php>

References

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xenserver/opt_xensource_libexec_InterfaceReconfigure.py  
xenserver/opt_xensource_libexec_InterfaceReconfigureBridge.py  
xenserver/opt_xensource_libexec_InterfaceReconfigureVswitch.py  
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utilities/bugtool/ovs-bugtool
utilities/bugtool/ovs-bugtool-*
utilities/bugtool/plugins/kernel-info/openvswitch.xml
utilities/bugtool/plugins/network-status/openvswitch.xml
utilities/bugtool/plugins/system-configuration.xml
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datapath-windows/ovsxt/Contrack-tcp.c
lib/contrack-tcp.c

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include/windows/netinet/ip6.h
lib/strsep.c

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```
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.\"
.\" Written by Eric S. Raymond <esr@thyrsus.com>
.\"      Werner Lemberg <wl@gnu.org>
.\"
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lib/ldap/ldapd.c
lib/ldap/ldapd.h
lib/ldap/ldapd-structs.c
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EXHIBIT B - Standards

The Standard is defined as the following:

sFlow Specification, located at
[1]<http://sflow.org/developers/specifications.php>

References

1. <http://sflow.org/developers/specifications.php>

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

- *
- * cvt - IEEE floating point formatting routines.
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- *

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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```

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

```
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```

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From dso/aix/dso.c:

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

- *
* cvt - IEEE floating point formatting routines.
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1.83 patch 2.7.1 :8.e17

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1.88 python-docker-py 1.10.6 :3.el7

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1.89 python-enum34 1.0.4 :1.e17

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1.91 python-ipaddress 1.0.16 :2.el7

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1.92 python-jmespath 0.9.0 :3.e17

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1.94 python-repoze-lru 0.4-3.e17

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- Tres Seaver, 2011/02/22

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1.95 python-websocket-client 0.32.0 :116.e17

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1.96 python2-backports-functools_lru_cache

1.2.1-4 :el7

1.97 python2-cached_property 1.3.0-7 :el7

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1.98 python2-crypto 2.6.1-13 :el7

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From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008

X-Maildir-Dup-Checked: Yes

Return-Path: <dlitz@dlitz.net>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D

for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA

for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)

Received: (vmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)

Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])

by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088

for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)

Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk

[193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS

15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;

Thu, 28 Aug 2008 01:45:02 +0100

To: crypt@bis.doc.gov,

enc@nsa.gov,

web_site@bis.doc.gov,

pycrypto@lists.dlitz.net,

PYTHON-CRYPTO@NIC.SURFNET.NL,

dlitz@dlitz.net

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Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1])
by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1
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id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT)
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Wed, 27 Aug 2008 20:42:54 -0400
Date: Wed, 27 Aug 2008 20:42:54 -0400
Cc: post@stamper.itconsult.co.uk
Subject: PyCrypto TSU NOTIFICATION
Message-ID: <20080828004254.GA31214@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
X-Delivery-Agent: TMDA/1.1.9 (Jura)
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
X-DNSBL: 0
Status: O
Content-Length: 2182
Lines: 65

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SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: <http://www.pycrypto.org/>

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

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Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

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

Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGVnbVwth+BAQEcuwf9EWnXLqSO5bPzR9K9QnTPcsKbTljKjPxr
d+q0E7eE8VtnvviUcTAR9o27yvzOPxdFT864MQA7OTSbPK39aGAgA4fgAgvYH9t
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XYhY+HbrjsD741/GSpOt9IIN5ln0UgshFoLIndnNSAvWf4aPyh5KCN7ho+/BC0v/
W/pqSSIPkwmbhlPHoOltTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==
=3oIX

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

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes

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ACCEPT

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From dlitz@dlitz.net Sun Nov 23 00:17:22 2008

Date: Sun, 23 Nov 2008 00:17:22 -0500

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: "A. M. Kuchling" <amk@amk.ca>

Subject: PyCrypto license clarification

Message-ID: <20081123051722.GA29253@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: multipart/signed; micalg=pgp-sha1;
protocol="application/pgp-signature"; boundary="YiEDa0DAkWCtVeE4"

Content-Disposition: inline

X-Primary-Address: dlitz@dlitz.net

X-Homepage: <http://www.dlitz.net/>

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;

id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);

preference=unprotected

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;

id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);

preference=signencrypt

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 3461

Lines: 78

--YiEDa0DAkWCtVeE4

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

Content-Transfer-Encoding: quoted-printable

Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's=20

GPL-compatible, etc. Right now, I'm not really sure what to tell them. =20

The text in the current LICENSE file (quoted below) is not entirely clear=

=20

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4

Content-Type: application/pgp-signature; name="signature.asc"

Content-Description: Digital signature

Content-Disposition: inline

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

Version: GnuPG v1.4.5 (GNU/Linux)

iEYEARECAAYFAkko52IACgkQHbG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ

yloAn33a3ZjkteyJaTbzEqImOEW8JGpf

=aBEW

-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008

X-Maildir-Dup-Checked: Yes

Return-Path: <amk@amk.ca>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D

for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id D632D10111

for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)

Received: (vmmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)

Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])

by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105

for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)

Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000

Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])

(envelope-sender <amk@amk.ca>)

by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP

for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000

Date: Sun, 23 Nov 2008 07:51:34 -0500

From: "A.M. Kuchling" <amk@amk.ca>

To: "Dwayne C. Litzenger" <dlitz@dlitz.net>

Subject: Re: PyCrypto license clarification

Message-ID: <20081123125134.GA21239@amk.local>

Reply-To: amk@amk.ca

References: <20081123051722.GA29253@rivest.dlitz.net>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>
User-Agent: Mutt/1.5.13 (2006-08-11)
Status: RO
Content-Length: 537
Lines: 15

> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them.
> The text in the current LICENSE file (quoted below) is not entirely clear
> on the point of whether distributing modified versions is allowed. (It
> says "distribute and use", but not "modify".)

The intention is that it be public domain.

> May I, on your behalf, dedicate to the public domain your considerable
> contributions to PyCrypto, with the following notice?

You may.

--amk
From dlitz@dlitz.net Sat Apr 18 09:14:20 2009
Date: Sat, 18 Apr 2009 09:14:20 -0400
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>
To: Mark Moraes <moraes@computer.org>
Subject: PyCrypto license clarification
Message-ID: <20090418131419.GA14494@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2635

Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am
working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's
GPL-compatible, etc. Right now, I'm not really sure what to tell them.
The text in the current LICENSE file (quoted below) is not entirely clear
on the point of whether distributing modified versions is allowed. (It
says "distribute and use", but not "modify".)

=====

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

=====

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=====

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

=====

Regards,
- Dwayne

--
Dwayne C. Litzberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD

for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (vmmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE
for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;
bh=OvxqbYnCg7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=F2h2bFzpqxyKFZ8BhenniyupGw4Zvlekb9BSk91qKU+51W/TkSGBij5YZIhkLQdkQk0qLz5f4g8dT6bOME3sEY1j10hlx0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EJhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTqgB2aU=
DomainKey-Signature:a=rsa-sha1; q=dns; c=noaws;
s=s1024; d=yahoo.com;
h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=r6RShFF5VzQLg+9tcn1xKuo4Rs4IVvXF6fdqOpQrMyRCxeFoebhuTE35grGqlomOJLwM0+mZwRb6rGkDj763caOAl08Ect/qlADW5izXfmVQaDchTbTqmpsJBmQnTQs9iZ+InrG+3UIwtUSGfX7fhEWmI9P/HBzxf9Wp4b3j eo=;
Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-YMail-OSG:
FrK8aWMVM1mFJtLpMGbUbCLjbUQC.i.JkIAKUHSFsFn7t9PbtewAewXJ2uhZGCOIGCX6oVnG3u.CgqzAffY4vZSnfTT8wnCkzZNZ_g6k.XUc3ipo_6e.92TXl4p8MxDGaf1tpNF5nXPwcQ7aREs7jGoWWWJYVyp50clsUFS Hzf7Zbpa8P1Yoe_xSzf3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X onq8h_TmzX9g84Bin9g_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv_bj_Ghxw--
Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)
From: M Moraes <markmoraes@yahoo.com>
Reply-To: moraes@computer.org
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Status: RO
X-Status: A
Content-Length: 3222

Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

-- On Sat, 4/18/09, Dwayne C. Litzenger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenger <dlitz@dlitz.net>

> Subject: PyCrypto license clarification

> To: "Mark Moraes" <moraes@computer.org>

> Date: Saturday, April 18, 2009, 9:14 AM

> Hi Mark,

>

> I am the new maintainer of the Python Cryptography Toolkit,

> and I am

> working on a new release at <http://www.pycrypto.org/>.

>

> People often ask me what license PyCrypto is covered by, if

> it's

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>

>

> =====

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> no restrictions on further

> dissemination and usage except those

> imposed by the laws of your

> country of residence. This

> software is provided "as is" without

> warranty of fitness for use or

> suitability for any purpose, express

> or implied. Use at your own risk or

> not at all.

>

> =====

>

> Incorporating the code into commercial

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> (though that would be nice).

>

> --amk

>
>
> (www.amk.ca)
>
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> =====
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> dedicated to the public domain. To the
> extent that dedication to the public
> domain is not available, everyone
> is granted a worldwide, perpetual,
> royalty-free, non-exclusive license
> to exercise all rights associated with
> the contents of this file for
> any purpose whatsoever. No
> rights are reserved.
>
> =====
>
> Regards,
> - Dwayne
>
> -- Dwayne C. Litzberger <dlitz@dlitz.net>
> Key-signing key - 19E1
> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Date: Mon, 20 Apr 2009 20:01:37 -0400
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>
To: moraes@computer.org
Subject: Re: PyCrypto license clarification
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3677

Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

>

>Hi Dwayne.

>

>Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

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>

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>>
>>
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>> Distribute and use freely; there are
>> no restrictions on further
>> dissemination and usage except those
>> imposed by the laws of your
>> country of residence. This
>> software is provided "as is" without
>> warranty of fitness for use or
>> suitability for any purpose, express
>> or implied. Use at your own risk or
>> not at all.
>>
>> =====
>>
>> Incorporating the code into commercial
>> products is permitted; you do
>> not have to make source available or
>> contribute your changes back
>> (though that would be nice).
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>> --amk
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>> (www.amk.ca)
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>>
>> =====
>> The contents of this file are
>> dedicated to the public domain. To the
>> extent that dedication to the public
>> domain is not available, everyone
>> is granted a worldwide, perpetual,
>> royalty-free, non-exclusive license
>> to exercise all rights associated with
>> the contents of this file for
>> any purpose whatsoever. No
>> rights are reserved.
>>
>> =====
>>
>> Regards,
>> - Dwayne
>>
>> -- Dwayne C. Litzenger <dlitz@dlitz.net>
>> Key-signing key - 19E1
>> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>>
>>
>

--
Dwayne C. Litzenger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
Date: Mon, 16 Feb 2009 12:58:00 -0800
From: Robey Pointer <robey@lag.net>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>
Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)
Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenger wrote:

> For the next PyCrypto release, I would like to take steps to move
> toward a clearer licensing regime. I am asking as many copyright
> holders as I can find if I can release PyCrypto under something
> clearer and more standard. Below, I have quoted a public domain
> dedication that was recommended in Intellectual Property and Open
> Source: A Practical Guide to Protecting Code, by Van Lindberg. I
> have already contacted A. M. Kuchling, and he has approved the
> following dedication for his contributions.

>
> May I, on your behalf, dedicate to the public domain all your
> contributions to PyCrypto, with the following notice?

>
>
> =

> =====

> The contents of this file are dedicated to the public domain. To
> the
> extent that dedication to the public domain is not available,
> everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive
> license
> to exercise all rights associated with the contents of this file
> for
> any purpose whatsoever. No rights are reserved.

>
> =

> =====

>

In case I haven't replied to this yet: Yes, this is fine with me.

robey

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

Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCfQmYYuVODvIlyLg0hgCI9LAbQ
SH8AoLJgaq1Ili7/ZYDc+/Cd8VO0xLbr
=Mv6g

-----END PGP SIGNATURE-----

Date: Sun, 23 Nov 2008 15:54:35 -0800

From: Wim Lewis <wiml@hnhh.org>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenger" <dlitz@dlitz.net>

Cc: Wim Lewis <wiml@hxxx.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hxxx.org>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On November 23, 2008, you wrote:

>Hi Wim,

>

>I am the new maintainer of the Python Cryptography Toolkit, and I am
>working on a new release at <http://www.pycrypto.org/>.

>

>I understand that you have made contributions to PyCrypto. May I, on
>your behalf, dedicate to the public domain all your contributions to
>PyCrypto, with the following notice?

>

> =====
> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.
> =====

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
distributed under the public-domain dedication you quote.

Wim.

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

Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnA18UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4B
FektbDOzkxgc5580MGGeX/MVn8aw+1BHg0YD85gsntlDzkcQtb+BR/xAvJ5zKyA
J/Mn/I+I6ekJQ3juh8IPHLAduOXM9Rtguas/yR+Doaq0xOPKoBx+/5+t1lJtBcZ
wrPEa9Oui9s=
=zSY9

-----END PGP SIGNATURE-----

From dilitz@dilitz.net Mon May 4 22:49:14 2009
Date: Mon, 4 May 2009 22:49:14 -0400
From: "Dwayne C. Litzenger" <dilitz@dilitz.net>
To: Joris Bontje <joris@bontje.nl>
Subject: PyCrypto license clarification
Message-ID: <20090505024914.GA9219@rivest.dilitz.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2553

Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
=====
Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

```
=====
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extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
```

to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Regards,
- Dwayne

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May 5 03:08:32 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <joris@bontje.nl>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 03:08:32 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 2315B40583

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 01:08:32 -0600 (CST)

Received: (vmmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97

Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])

by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C

for <dlitz@dlitz.net>; Tue, 5 May 2009 01:08:30 -0600 (CST)

Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000

Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])

(envelope-sender <joris@bontje.nl>)

by 10.170.1.96 (qmail-ldap-1.03) with SMTP

for <>; 5 May 2009 07:08:25 -0000

Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)

id 9BE9B15759B; Tue, 5 May 2009 09:08:25 +0200 (CEST)

Received: from firewall66.interaccess.nl (firewall66.interaccess.nl

[193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;

Tue, 05 May 2009 09:08:25 +0200

Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>

Date: Tue, 05 May 2009 09:08:25 +0200

From: joris@bontje.nl

To: "Dwayne C. Litzenger" <dlitz@dlitz.net>

Subject: Re: PyCrypto license clarification

References: <20090505024914.GA9219@rivest.dlitz.net>

In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset=ISO-8859-1;
format="flowed"
Content-Disposition: inline
Content-Transfer-Encoding: 7bit
User-Agent: Internet Messaging Program (IMP) H3 (4.1.3)
Status: RO
X-Status: A
Content-Length: 3488

Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

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> Regards,
> - Dwayne
>
> --
> Dwayne C. Litzengerger <dlitz@dlitz.net>
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Tue May 5 17:53:47 2009
Date: Tue, 5 May 2009 17:53:47 -0400
From: "Dwayne C. Litzengerger" <dlitz@dlitz.net>
To: joris@bontje.nl
Subject: Re: PyCrypto license clarification
Message-ID: <20090505215347.GB9933@rivest.dlitz.net>
References: <20090505024914.GA9219@rivest.dlitz.net>
<20090505090825.gsqlips7hg08wwwok@www.webmail.vuurwerk.nl>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3863

Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:

> Hi Dwayne,

>

> Thanks for taking over the PyCrypto library and putting in the required
> effort to keep this going.

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> =====

>

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> Joris

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> Citeren "Dwayne C. Litzenger" <dlitz@dlitz.net>:

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>> any purpose whatsoever. No rights are reserved.
>> =====
>>
>> Regards,
>> - Dwayne
>>
>> --
>> Dwayne C. Litzberger <dlitz@dlitz.net>
>> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>
>

--

Dwayne C. Litzenger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
From dlitz@dlitz.net Sun Aug 2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090803014825.GA1326@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2631

Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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```

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Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=====
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=====

Regards,
- Dwayne

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <paulswartz@gmail.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)

Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159

Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])

by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066

for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)

Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3

for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;

d=gmail.com; s=gamma;

h=domainkey-signature:mime-version:received:in-reply-to:references

:from:date:message-id:subject:to:content-type

:content-transfer-encoding;
bh=A0RHBf0TnribKS5qOHJ3WYbkZ+b0cuPeuoKAvpApWcc=;
b=gyTqkRhKIHadFKIZCBWsRbnMNVdQ1PWIJbyC0EvxPskaoHr3HAR96MWQNBePu/40Ac
Vn55qlIqTdom4e9zlUEE6MwZo9kqi/Qw0L/SLib0DlQeNqo/eHYqPmuVswltaYwNAyMJ
Y9++76rPGzqYdALsfvsmwv7Q3/bEmjVTr0tQE=
DomainKey-Signature: a=rsa-sha1; c=noaws;
d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references:from:date:message-id:subject:to
:content-type:content-transfer-encoding;
b=jze7KSMkUGilfVCXKXaaXMi5NAtGdMQOtVZZfRNyGSy68xOd2sxefjyyig3EFT6Nv6
Q3opUMsT96Q6zjZND55w446kTh2uBTNz4d3NwIeEWJnG3xcliRQu/mXPFP8AzPI3CefL
1ornJLM1eQ2XyuZA73jem+SJtfdHUcSD1UhgI=
MIME-Version: 1.0
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,
03 Aug 2009 09:14:03 -0700 (PDT)
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
From: Paul Swartz <paulswartz@gmail.com>
Date: Mon, 3 Aug 2009 12:13:43 -0400
Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
Status: RO
X-Status: A
Content-Length: 1450

On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenger<dlitz@dlitz.net> wrote:
te:

> Hi Paul,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at <http://www.pycrypto.org/>.

That's great!

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> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=
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>
> =C2=A0=3D=
=3D=
=3D
> =C2=A0The contents of this file are dedicated to the public domain. =C2=
=A0To the
> =C2=A0extent that dedication to the public domain is not available, every=

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>> =====
>
>Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--

Dwayne C. Litzengerger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzengerger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
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=====

Regards,
- Dwayne

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar 2 11:29:39 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <barry@python.org>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)
Received: (vmmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
Received: from mail.wooz.org (216-15-33-230.c3-0.slv-ubr2.lnh-slv.md.static.cable.rcn.com [216.15.33.230])
by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
for <dlitz@dlitz.net>; Mon, 2 Mar 2009 10:29:38 -0600 (CST)
Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
From: Barry Warsaw <barry@python.org>
To: Dwayne C. Litzenberger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
Content-Type: text/plain; charset=US-ASCII; format=flowed; delpsp=yes
Content-Transfer-Encoding: quoted-printable
Mime-Version: 1.0 (Apple Message framework v930.3)
Subject: Re: PyCrypto license clarification
Date: Mon, 2 Mar 2009 11:29:34 -0500
References: <20090301024509.GA13195@rivest.dlitz.net>
X-Pgp-Agent: GPGMail d55 (v55, Leopard)
X-Mailer: Apple Mail (2.930.3)
Status: RO
Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=

> working on a new release at <http://www.pycrypto.org/>.

Great! I'm glad to see someone taking up the mantle of this important =20=

Python library.

> I understand that you have made contributions to PyCrypto. May I, =20=

> on your behalf, dedicate to the public domain all your contributions =20=

> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLdHI6agk
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=3DQduY

-----END PGP SIGNATURE-----

From dlitz@dlitz.net Sat Feb 28 23:24:14 2009
Date: Sat, 28 Feb 2009 23:24:14 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Jeethu Rao <jeethurao@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2513

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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=====

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not have to make source available or contribute your changes back
(though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in *Intellectual Property and Open Source: A Practical Guide to Protecting Code*, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

```
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any purpose whatsoever. No rights are reserved.
=====
```

Regards,
- Dwayne

--

Dwayne C. Litzengerger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <jeethurao@gmail.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9

for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB

for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)

Received: (vmmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

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from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
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by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7
for <dlitz@dlitz.net>; Sun, 8 Mar 2009 15:28:12 -0600 (CST)
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for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)
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MIME-Version: 1.0
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;
Sun, 08 Mar 2009 14:27:54 -0700 (PDT)
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>
References: <20090301042414.GA15122@rivest.dlitz.net>
Date: Mon, 9 Mar 2009 02:57:54 +0530
Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>
Subject: Re: PyCrypto license clarification
From: Jeethu Rao <jeethurao@gmail.com>
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>
Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054
Status: RO
Content-Length: 7668

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Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.

I don't really check this email address all that often,

please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenger <dlitz@dlitz.net>wrote:

> Hi Jeethu,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at <http://www.pycrypto.org/>.
>
> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them. The
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> point of whether distributing modified versions is allowed. (It says
> "distribute and use", but not "modify".)
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> =====
>
> Incorporating the code into commercial products is permitted; you do
> not have to make source available or contribute your changes back
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>
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> Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey
> Pointer, and Wim Lewis, and they have all approved the following text for
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> I understand that you have made contributions to PyCrypto. May I, on your
> behalf, dedicate to the public domain all your contributions to PyCrypto,
> with the following notice?
>
> =====
> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.
> =====
>

> Regards,
> - Dwayne
>
> --
> Dwayne C. Litzenger <dilitz@dilitz.net>
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>

--
Jeethu Rao

--000e0cd209d0e5a3d40464a23054
Content-Type: text/html; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

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I don't really check this email address all that often, please direct any further correspondence to jeethu@jeethu-rao.com
On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenger dilitz@dilitz.net wrote:
>
<blockquote class="gmail_quote" style="margin: 0 0 .8ex; border-left: 1px solid; padding-left: 1ex;">Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.
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</blockquote></div>
<br clear=3D"all">
--
Jeethu Rao
</div></div>

--000e0cd209d0e5a3d40464a23054--

00INDEX This file

LICENSE.orig Original (deprecated) license for the Python Cryptography Toolkit

LICENSE.libtom LICENSE file from LibTomCrypt

stmts/ Statements by contributors

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

- (a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or
- (b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or
- (c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.
- (d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the

public domain as follows:

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==== EOF ====

00INDEX - This file

tsu-notify.mbox - Notification sent per U.S. export regulations

copy/ - Copyright info & public-domain dedications

Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):

~~~~~

Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see [LEGAL/copy/LICENSE.orig](#)).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)
2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)
3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).
4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

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## 1.99 python2-dockerpty 0.4.1-9 :el7

### 1.99.1 Available under license :

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# 1.100 python2-docopt 0.6.2-7 :el7

## 1.100.1 Available under license :

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# 1.101 python2-jmespath 0.9.0-5 :el7

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# 1.102 python2-jsonschema 2.5.1-3 :el7

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-----

The source file ``passlib/handlers/md5\_crypt.py`` contains code derived from the original  
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converted to python May 2008

by Eli Collins

#### DES

---

The source file ``passlib/utis/des.py`` contains code derived from  
`UnixCrypt.java <<http://www.dynamic.net.au/christos/crypt/UnixCrypt2.txt>>`,  
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UnixCrypt.java 0.9 96/11/25

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modified April 2001

by Iris Van den Broeke, Daniel Deville

modified Aug 2005

by Greg Wilkins (gregw)

converted to python Jun 2009

by Eli Collins

#### jBCrypt

-----

The source file ``passlib/utis/\_blowfish/base.py`` contains code derived  
from `jBCrypt 0.2 <<http://www.mindrot.org/projects/jBCrypt/>>`, a Java  
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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

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., 675 Mass Ave, Cambridge, MA 02139, 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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

## 1.115 tzdata 2.018 :el7

### 1.115.1 Available under license :

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## 1.116 tzdata 2017b-1 :el6

### 1.116.1 Available under license :

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## 1.117 yajl 2.0.4 :4.el7

### 1.117.1 Available under license :

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