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Text Part Number: 78EE117C99-191771707
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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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1.3 apr 1.4.8-3 :el7_4.1

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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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1.4 apr-util 1.5.2-6 :el7-7

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

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

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

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

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

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

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

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1.9 avahi 0.6.31-17 :el7-3

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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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1.10 bash-completion 2.1-6 :el7

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**1.11 bc 1.06.95 :13.el7**

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<one line to give the program's name and a brief idea of what it does.>
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
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Public License instead of this License.

1.18 container-selinux 2.36-1.gitff95335 :el7
1.18.1 Available under license :

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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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If such an object file uses only numerical parameters, data
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Appendix: How to Apply These Terms to Your New Programs

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

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

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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:

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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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<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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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.

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
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whether or not they are linked directly with the Library itself.

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of these things:

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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
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c) If distribution of the work is made by offering access to copy
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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
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Appendix: How to Apply These Terms to Your New Libraries

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<signature of Ty Coon>, 1 April 1990
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1.23 cups 1.6.3-35 :el7

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<H2 CLASS="title"><A NAME="INTRO">Introduction</A></H2>

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</UL>
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<OL>

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<OL TYPE="a">

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</OL>

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</OL>

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```
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```

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<P>Version 2, June 1991

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</pre>

<H3>Preamble</H3>

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<ol type="a">
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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.
```

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```
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interest in the program `Gnomovision'
(which makes passes at compilers) written
by James Hacker.

signature of Ty Coon</VAR>, 1 April 1989
Ty Coon, President of Vice
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<OL TYPE="a">

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  <P>
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  <P>
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</OL>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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[This is the first released version of the library GPL. It is
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analogous to running a utility program or application program. However, in
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treats it as such.

Because of this blurred distinction, using the ordinary General
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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
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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
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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
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Note that it is possible for a library to be covered by the ordinary
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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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<one line to give the library's name and a brief idea of what it does.>
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school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!

1.25 device-mapper-multipath 0.4.9-111 :el
1.25.1 Available under license :

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

Preamble

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

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

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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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.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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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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Extensions for Protocol Buffers to create more go like structures.

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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/gogoproto/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/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.
- 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 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

```protobuf
default_empty {
  optional int32 f = 1;
}

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.Fatal("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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Extensions for Protocol Buffers to create more go like structures.

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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/gogoproto/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/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.
- 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_StrucName_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

```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/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
```

Extensions for Protocol Buffers to create more go like structures.

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

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

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        },
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    // Now test and newTest contain the same data.
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  }
}
```

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

```go
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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  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
```
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
```

---

Extensions for Protocol Buffers to create more go like structures.

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# Installation

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The simplest way is to run:

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$ go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
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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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  newTest := &example.Test{
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        },
    }
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Extensions for Protocol Buffers to create more go like structures.
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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/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() {
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```protobuf
target.proto

package example;

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message Test {
  required string label = 1;
}```
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================================================================================
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Consider file test.proto, containing

```protobuf
package example;

enum FOO { X = 17; }

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

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  }
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  if err != nil {
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```
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// Now test and newTest contain the same data.
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}
// etc.

---

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```

---

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package example;

enum FOO { X = 17; };

message Test {
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  optional group OptionalGroup = 4 {
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To create and play with a Test object from the example package,

```go
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)
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package main

import (  
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func main() {  
    test := &example.Test {  
        Label: proto.String("hello"),  
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        Optionalgroup: &example.Test_OptionalGroup {  
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    data, err := proto.Marshal(test)
    if err != nil {
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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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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_,
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Consider file test.proto, containing

```proto
package example;

enum FOO { X = 17; }

message Test {
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    required string RequiredField = 5;
  }
}
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To create and play with a Test object from the example package,

```go
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.
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==============================================================================
=Godeps/_workspace/src/github.com/gogo/protobuf/protoc-gen-gogo/descriptor licensed under: =

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    },
  }
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  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.Label() != newTest.Label() {
    log.Fatalf("data mismatch %q !=%q", test.Label(), newTest.Label())
  }
  // etc.
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- Grab the code from the repository and install the proto package.

The simplest way is to run

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

```bash
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
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Consider file test.proto, containing

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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,

```go
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.
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================================================================================
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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,

```go
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{
    Label: "hello",
    Type: 17,
    OptionalGroup: &example.Test.OptionalGroup{
      RequiredField: "good bye",
    },
  }
}
```
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

Extensions for Protocol Buffers to create more go like structures.

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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

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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/gogoproto/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/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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- Nested groups and enums have type names prefixed with the name of the surrounding message type.
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  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

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

```go
package main

import (
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.Fatal("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

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;

class 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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.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
print byte strings as hex encoded strings

skip server certificate verification

disable transport security for client connections

identify secure client using this TLS key file

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

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

SEE ALSO

etcdctl3-role(1)

HISTORY

20-Nov-2017 Auto generated by spf13/cobra

NAME

etcdctl\-role\-grant\-permission \- Grants a key to a role

SYNOPSIS

etcdctl role grant\-permission [OPTIONS]
Grants a key to a role

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

grant a prefix permission

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

identify secure client using this TLS certificate file

timeout for short running command (excluding dial timeout)

enable client-side debug logging

dial timeout for client connections

gRPC endpoints

print byte strings as hex encoded strings

skip server certificate verification
disable transport security for client connections

identify secure client using this TLS key file

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

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

SEE ALSO

etcdctl3\-role(1)

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1.33 git 2.11.1-1 :WANdisco.346.x86_64
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From ac610b87289530baccdb9e245912c4491c1affd5 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 e304f48fa262e5cdeb181fb3fee5dfb9c893108c:
> 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: Ie9dfd092473ba9c1c7b5fa38401cf9c0aa8395bb
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);
    return ret;
}

static int
mnt3_check_client_net_tcp (rpcsvc_request_t *req, char *volname)
{
    rpcsvc_t *svc = NULL;
    if (!ms) return -1;
    if (!path) {
        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, path, _gf_false);
        if (!exp) {
            gf_msg_trace (GF_MNT, 0, "Could not find exact matching export ",
                          "for path=%s", path);
            goto err;
        }
    }
    exp = mnt3_mntpath_to_export (ms, volname, _gf_false);
    if (!exp) {
        gf_msg_trace (GF_MNT, 0, "Could not find exact matching export ",
                          "for path=%s", path);
        goto err;
    }
    return ret;
}

int
mnt3_parse_dir_exports (rpcsvc_request_t *req, struct mount3_state *ms,
                        char *subdir)
{
    char volname[1024] = {0, };
    struct mnt3_export *exp = NULL;
    char *volname_ptr = NULL;
    int ret = -ENOENT;
    struct nfs_state *nfs = NULL;
    if (!ms || !subdir)
        return -1;
    subdir = __volume_subdir (subdir, &volname_ptr);
    if (!subdir)
        return -1;
    subdir = mnt3_get_volume_subdir (path, &volname_ptr);
    if (!subdir) { /* first try to match the full export/subdir */
        exp = mnt3_mntpath_to_export (ms, volname, _gf_false);
        if (!exp) {
            gf_msg_trace (GF_MNT, 0, "Could not find exact matching export ",
                          "for path=%s", path);
            goto err;
        }
    }
                /* 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)
            goto err;
@@ -1798,7 +1816,7 @@ mnt3_parse_dir_exports (rpcsvc_request_t *req, struct mount3_state *ms,
                ret = mnt3_resolve_subdir (req, ms, exp, subdir);
        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);
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/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);
+        volname = volptr = gf_strdup (path);
+        if (!volname)
+            return NULL;

-        volptr = &volname[1];
-        pathlen = strlen (volname);
+        volptr = &volname[1];
+        if (volname[0] == '/'
+            return NULL;
+        if (volname[0] == '/'

Open Source Used In Openshift Origin 3.7.2
+    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
 static int
-nfs3_funge_webnfs_zerolen_fh (struct nfs3_state *nfs3st, struct nfs3_fh *fhd,
--char *name)
+struct nfs3_state *nfs3st,
+struct nfs3_fh *fhd,
+char *name)
 {
-    xlator_t        *fungexl  = NULL;
-    glfs_t          *fs       = NULL;
+    xlator_t *fungexl = NULL;
+    glfs_t *fs = NULL;

-    nfs3_funge_webnfs_zerolen_fh (rpcsvc_request_t *req, struct nfs3_state *nfs3st,
+    nfs3_funge_webnfs_zerolen_fh (rpcsvc_request_t *req, struct nfs3_state *nfs3st,
+    struct nfs3_fh *fhd, char *name)
 {
fungexl = nfs_mntpath_to_xlator (nfs3st->exportlist, 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/subdir/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,
        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 e054a627d7eaedee423be25a6c1cc472b2526846 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_ATIME). But it should also have UP_PERM and permission bits
are part 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: I7efad44972add152f5f981d733f8191dc7ef8ef
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_ATIME)
+                                 UP_TIMES | UP_ATIME | 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: Cluster 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>
---

```
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) ||

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+ (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_INVAL)
+    {
+        if ((local->stbuf.ia_gid != stbuf->ia_gid))
+            (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
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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  <signature of Ty Coon>, 1 April 1989
  Ty Coon, President of Vice

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Currently IATT_UPDATE_FLAGS is (UP_NLINK | UP_MODE | UP_OWN | UP_SIZE | UP_TIMES | UP_ATIME). 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_ATIME)  
+ UP_TIMES | UP_ATIME | UP_PERM) 

typedef enum {  
    GF_UPCALL_EVENT_NULL,  
    --

1.7.1
From a2cb732a71d341edb65e4cedbf103a3fec35e8589 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>
> 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>

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 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_INVAL)
{
    if ((local->stbuf.ia_gid != stbuf->ia_gid) ||
        (local->stbuf.ia_uid != stbuf->ia_uid)) {
        (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
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**1.38 hdparm 9.43-5 :el7-4**

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Upstream Author: Mark S. Lord <mlord@pobox.com>

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For the `server/util_md5.c` component:

/**********************************************************
 * 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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For the test\zb.c component:

/*                 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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Content-Language: en
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<?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><!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
This file is generated from xml source: DO NOT EDIT
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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);

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For the `server\util_md5.c` component:

/***************************************************************
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 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
 *
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*
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   -------------------------

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

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Mike Belshe (mbelsh@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)
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A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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

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consider it more useful to permit linking proprietary applications with the
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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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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.el7

1.51.1 Available under license:

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Version 2.1, February 1999

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1.52 keyutils_tools-GPLv2 1.5.8 :3.el7

1.52.1 Available under license:

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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:

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

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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
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'\*.*? */', '', 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('*').lstrip())
        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
        code_seen = True
        ln += 1
        for line in sys.argv[1:]:
            if line.startswith('./'):
                line = line[2:]  # f = open(line)
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    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
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
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lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
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lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.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
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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/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.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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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_unsargs.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_p_spnego.c

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
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1.56 libnetfilter_cthelper 1.0.0-9 :el7-3
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1.59 libnfsidmap 0.25-19 :el7

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1.61 libseccomp 2.3.1 :3.el7

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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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 IBM
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 HMAC: Keyed-Hashing for Message Authentication

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build-aux/cccl

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include/windows/getopt.h
datapath-windows/ovsext/Conntrack-tcp.c
lib/conntrack-tcp.c

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include/windows/netinet/ip6.h
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datapath/linux/compat/include/linux/openvswitch.h

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"

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"

Werner Lemberg <wl@gnu.org>
"

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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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 *
 * 
 *  */

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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1.94 python-repoze-lru 0.4-3.el7

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1.95 python-websocket-client 0.32.0 :116.el7

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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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X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@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)
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by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
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Delivered-To: m-dlitz-dlitz@dlitz.net
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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/

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Dwayne C. Litzenberger <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

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Charset: noconv
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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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</tbody>
</table>

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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. Litzenberger" <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=4B2AFD82FC7D9E38383D9179F1C11B877E7804B45 (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,

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

For the next PyCrypto release, I'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can find, starting with you, 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.

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Regards,
- Dwayne

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> 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

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").
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Regards,
- Dwayne

--
Dwayne C. Litzenberger <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
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.

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. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <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
> GPL-compatible, etc. Right now, I'm not really sure
> what to tell them.
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> on the point of whether distributing modified versions is
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> 
> --amk
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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?

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Regards,

- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
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.
>
> Regards,
> Mark.
>
> --- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:
> 
> >> From: Dwayne C. Litzenberger <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,
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working on a new release at http://www.pycrypto.org/.

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Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they
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Regards,
- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E11FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2AFD82 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. Litzenberger" <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-----
On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger 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
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> 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?
> >
> > =
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> >>
> > =
> > ======================================================================
>
> 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)

iEYEARECAAYFAdkz01gACgkQQQDKkVvyJ6cOLvQClfQmYYuVODVlyLg0hgi9LAbQ
SH8AoJgaql1li7ZYDc+/Cd8VO0xLbr
=My6g
-----END PGP SIGNATURE-----
Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
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?
> 
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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.
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").

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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
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,
Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

> 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/.
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Regards,
- Dwayne

--
Dwayne C. Litzenberger <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. Litzenberger" <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.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
MIME-Version: 1.0
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.
> 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:
> ==------------------------------------------------------------------------
> 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,
>
> Joris
>
> Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:
>
>> 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).

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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Regards,
-Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

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

>
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".)

```
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)

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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. Litzenberger <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 QMOP 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, 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
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:

> 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!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=
> blic
> domain all your contributions to PyCrypto, with the following notice?
> 
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
> The contents of this file are dedicated to the public domain. =C2=A0To the
> =C2=A0extent that dedication to the public domain is not available, ev ery=

---

Open Source Used In Openshift Origin 3.7.2

2401
Yes, that's fine. Good luck with the new release!

-p
--20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin
Hi Barry,

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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dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
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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
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Below, I have quoted a public domain dedication that was recommended in
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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 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. Litzenberger <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
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)
iQCVAwUBSawJbnEjvBPtnXlVAQLZjgP/ecG+JdZwNvPJRFsa6rhY6+MHLDHI6agk
evkJnSJQAcVHIZnVlVeR5IxgVDMakZjU4SOV7MqkhsKA9Ile7PaD9VSYgn3ra5
gElwI2DQDoOy5GExXMm74qrrb1PCCbCRmpaYNo+DZohwHkeFBjwDRA3wltOrH7
SK4w9VBJltY=3D
=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".)

==================================================================
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
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.

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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. Litzenberger <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: (vmailmgr-postfix 5011 invoked by uid 1003);  8 Mar 2009 15:28:15 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17 matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
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. Litzenberger <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
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>
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> --amk (www.amk.ca)
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> ==============================================================

---

Open Source Used In OpenShift Origin 3.7.2

2409
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Jeethu Rao

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--

Jeethu Rao
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or implied. Use at your own risk or not at all.<br>

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The contents of this file are dedicated to the public domain. =A0To the<br>extent that dedication to the public domain is not available, everyone<br>is granted a worldwide, perpetual, royalty-free, non-exclusive license<br>to exercise all rights associated with the contents of this file for<br>any purpose whatsoever. =A0No rights are reserved.<br>

Regards,<br>
-Dwayne<br>
--<br>
Dwayne C. Litzenberger <<a href="mailto:dlitz@dlitz.net" target="_blank">dlitz@dlitz.net</a>>
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:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

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"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

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exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
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Object form, made available under the License, as indicated by a
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1.102 python2-jsonschema 2.5.1-3 :el7

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1.103 python2-passlib 1.6.5-1 :el7

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1.104 python2-texttable 0.9.1-1 :el7

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1.113 star 1.5.2

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END OF TERMS AND CONDITIONS

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