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```

```
# Make coding more python3-ish
from __future__ import (absolute_import, division, print_function)
__metaclass__ = type
```

```
__version__ = '2.4.2.0'
```

```
__author__ = 'Ansible, Inc.'
```

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Version 3, 29 June 2007

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1.2 apr 1.4.8 :3.e17

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

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

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From dso/aix/dso.c:

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.

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From strings/apr_sprintf.c:

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

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```
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That's all there is to it!

1.7 bash-completion 2.1 :6.el7

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#
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# http://bash-completion.alioth.debian.org/
#
```

1.8 bc 1.06.95 :13.e17

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Version 2.1, February 1999

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1.14 container-storage-setup 0.8.0

:3.git1d27ecf.el7

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1.15 copy-jdk-configs 1.2 :1.e17

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1.16 cryptsetup 1.7.4 :3.e17

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<OL START="11">

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<PRE>

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

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</PRE>

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

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

<PRE>

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

</PRE>

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

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

<PRE>

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

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

</PRE>

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

<P>Version 2, June 1991

<PRE>

```
Copyright (C) 1991 Free Software Foundation, Inc.
59 Temple Place - Suite 330, Boston, MA 02111-1307, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
```

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

</PRE>

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

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

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

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<P>0.

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<OL TYPE="a">

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<P>

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<P>

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<P>

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<OL TYPE="a">

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<P>

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<P>

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<P>

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<PRE>

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by James Random Hacker.

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

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

</BODY>
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

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

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

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

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Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

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

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

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

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

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

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

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

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

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

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

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

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

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

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

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1.18 device-mapper-multipath 0.4.9

:111.e17_4.2

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```

```
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```

```
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Brad Fitzpatrick <bradfitz@golang.org>
Burcu Dogan <jbd@google.com>
Dave Day <djd@golang.org>
David Symonds <dsymonds@golang.org>
Glenn Lewis <gmlewis@google.com>
Johan Euphrosine <proppy@google.com>
Luna Duclos <luna.duclos@palmstonegames.com>
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Gocheck - A rich testing framework for Go

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

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

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

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

.nh

.ad 1

.SH NAME

.PP

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

.SH SYNOPSIS

.PP

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

.SH DESCRIPTION

.PP

Revokes a key from a role

.SH OPTIONS

.PP

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

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

.PP

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

revoke a prefix permission

.SH OPTIONS INHERITED FROM PARENT COMMANDS

.PP

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

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

.PP

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

identify secure client using this TLS certificate file

.PP

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

timeout for short running command (excluding dial timeout)

.PP

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

enable client-side debug logging

.PP

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

dial timeout for client connections

.PP

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

gRPC endpoints

.PP

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

print byte strings as hex encoded strings

.PP

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

skip server certificate verification

.PP

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

disable transport security for client connections

.PP

`\fB\-\-key\fp=""`

identify secure client using this TLS key file

.PP

`\fB\-\-user\fp=""`

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

.PP

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

.SH SEE ALSO

.PP

`\fBetcctl3\role(1)\fp`

.SH HISTORY

.PP

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

.nh

.ad 1

.SH NAME

.PP

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

.SH SYNOPSIS

.PP

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

.SH DESCRIPTION

.PP

Grants a key to a role

.SH OPTIONS

.PP

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

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

.PP

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

grant a prefix permission

.SH OPTIONS INHERITED FROM PARENT COMMANDS

.PP

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

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

.PP

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

identify secure client using this TLS certificate file

.PP

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

timeout for short running command (excluding dial timeout)

.PP

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

enable client\side debug logging

.PP

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

dial timeout for client connections

.PP

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

gRPC endpoints

.PP

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

print byte strings as hex encoded strings

.PP

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

skip server certificate verification

.PP

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

disable transport security for client connections

.PP

`\fB\-\-key\fp=""`

identify secure client using this TLS key file

.PP

`\fB\-\-user\fp=""`

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

.PP

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

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

.SH SEE ALSO

.PP

`\fB\betcdctl3\--role(1)\fp`

.SH HISTORY

.PP

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1.24 git WANDISCO 2.11.1

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Version 2, June 1991

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```

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```

```
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```

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1.25 glusterfs 3.8.4 :18.4.el7.centos

1.25.1 Available under license :

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

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

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

Change-Id: I7efad44972add152f5f981d733fb8191dc7ef8ef
BUG: 1284873
Signed-off-by: Poornima G <pgurusid@redhat.com>
Reviewed-on: <http://review.gluster.org/15301>
NetBSD-regression: NetBSD Build System <jenkins@build.gluster.org>
CentOS-regression: Gluster Build System <jenkins@build.gluster.org>
Smoke: Gluster Build System <jenkins@build.gluster.org>
Reviewed-by: Raghavendra G <rgowdapp@redhat.com>
Reviewed-by: Prashanth Pai <ppai@redhat.com>
Reviewed-by: Jeff Darcy <jdarcy@redhat.com>
Reviewed-on: <https://code.engineering.redhat.com/gerrit/87039>
Reviewed-by: Rajesh Joseph <rjoseph@redhat.com>
Tested-by: Rajesh Joseph <rjoseph@redhat.com>

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

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

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

```
typedef enum {
    GF_UPCALL_EVENT_NULL,
```

--

1.7.1

From a2cb732a71d341edb65e4cddf103a3fec35e8589 Mon Sep 17 00:00:00 2001

From: Susant Palai <spalai@redhat.com>

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

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

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

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

Note: This patch heals the permission of the root directories only.

Since, permission healing of directory is not straight forward and required intrusive fix, those are not addressed here.

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

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

Change-Id: If894e3895d070d46b62d2452e52c1eaafcf56c29

BUG: 1294035

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

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

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

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

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

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

```
new file mode 100644
```

```
index 0000000..f89314b
```

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

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

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

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

```
+
```

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

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

```
+
```

```
+cleanup;
```

```
+
```

```
+function get_permission {
```

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

```
+}
```

```
+
```

```
### Start glusterd
```

```
+TEST glusterd;
```

```
+TEST pidof glusterd;
```

```

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

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

```

```

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

```

```

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

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

```

--
1.7.1

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```

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

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

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</div>

</div>

<div class="bottomlang">

<p>Available Languages: en </p>

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

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

class="warning">Notice:
This is not a Q&A section. Comments placed here should be

pointed towards suggestions on improving the documentation or server, and may be removed again by our

moderators if they are either implemented or considered invalid/off-topic. Questions on how to manage the Apache

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<script type="text/javascript"><!--><![CDATA[//><!--

var comments_shortname = 'httpd';

var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';

(function(w, d) {

if (w.location.hostname.toLowerCase() == "httpd.apache.org") {

d.write('<div id="comments_thread"></div>');

var s = d.createElement('script');

s.type = 'text/javascript';

s.async = true;

s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +

comments_identifier;

(d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);

}

else {

d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');

}

})(window, document);

//><![></script></div><div id="footer">

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<p class="menu">Modules | Directives | FAQ | Glossary | Sitemap</p></div><script type="text/javascript"><!--><![CDATA[//><!--

if (typeof(prettyPrint) !== 'undefined') {

prettyPrint();

}

//><![></script>

</body></html>

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/*

* mod_mime_magic: MIME type lookup via file magic numbers

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```

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```

/*****

```

```

* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820

```



```

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*
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```
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```
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=====
```

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

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

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

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=====

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The source code for a work means the preferred form of the work for

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

```
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it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

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

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

The hypothetical commands `show w' and `show c' should show the appropriate
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be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

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

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

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

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Version 2.1, February 1999

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Although the Lesser General Public License is Less protective of the

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

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

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

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

1.34 libbasicobjects 0.1.1-27.el7.x86_64.

1.34.1 Available under license :

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Version 3, 29 June 2007

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Version 3, 29 June 2007

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```
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```
/*
```

```
Simple buffer
```

```
Basic buffer manipulation routines. Taken from ELAPI code.
```

```
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```

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*/

```
#ifndef ELAPI_SIMPLEBUFFER_H
#define ELAPI_SIMPLEBUFFER_H
```

```
#include <stdint.h>
```

```
#ifndef EOK
#define EOK 0
#endif
```

```
/* Generic data structure for the buffer */
```

```
struct simplebuffer {
    unsigned char *buffer;
    uint32_t size;
    uint32_t length;
};
```

```
/* Function to free data */
```

```
void simplebuffer_free(struct simplebuffer *data);
```

```
/* Allocate data structure */
```

```
int simplebuffer_alloc(struct simplebuffer **data);
```

```
/* Function to add memory to the buffer */
```

```
int simplebuffer_grow(struct simplebuffer *data,
    uint32_t len,
    uint32_t block);
```

```
/* Function to add raw data to the end of the buffer.
```

```
* Terminating 0 is not counted in length but appended
```

```
* automatically.
```

```
*/
```

```
int simplebuffer_add_raw(struct simplebuffer *data,
    void *data_in,
    uint32_t len,
    uint32_t block);
```

```

/* Function to add string to the buffer.
* Same as above just uses string as an argument.
*/
int simplebuffer_add_str(struct simplebuffer *data,
                        const char *str,
                        uint32_t len,
                        uint32_t block);

/* Finction to add CR to the buffer */
int simplebuffer_add_cr(struct simplebuffer *data);

/* Function to write data synchroniously */
int simplebuffer_write(int fd,
                      struct simplebuffer *data,
                      uint32_t *left);

/* Get buffer */
const unsigned char *simplebuffer_get_buf(struct simplebuffer *data);

/* Get buffer */
void *simplebuffer_get_vbuf(struct simplebuffer *data);

/* Get length */
uint32_t simplebuffer_get_len(struct simplebuffer *data);

#endif

```

1.35 libevent 2.0.21 :4.e17

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1.36 libini_config 1.3.0 :27.e17

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Version 3, 29 June 2007

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1.37 libjpeg-turbo 1.2.90 :5.e17

1.37.1 Available under license :

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

```
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```

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```

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```
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```

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

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1.40 libnetfilter_queue 1.0.2 :2.el7_2

1.40.1 Available under license :

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```

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```
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```

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

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1.41 libnfsidmap 0.25 :17.el7

1.41.1 Available under license :

This package was debianized by J. Bruce Fields <bfields@citi.umich.edu> on Fri, 6 Aug 2004 16:10:43 -0400.

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<http://www.citi.umich.edu/projects/nfsv4/linux/>

Authors: J. Bruce Fields, Andy Adamson, Marius Eriksen

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1.42 libpath_utils 0.2.1 :27.el7

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Version 3, 29 June 2007

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 */
```

1.45 libtomcrypt 1.17

:33.20170623gitcd6e602.e17

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1.47 libverto 0.2.5 :4.e17

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1.48 Iksctp-tools 1.0.17 :2.el7

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1.51 mailx 12.5 :16.el7

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* Part No: 816-1331-11
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/*

* hmac.c is derived from:

Network Working Group H. Krawczyk

Request for Comments: 2104 IBM
Category: Informational M. Bellare
UCSD
R. Canetti
IBM
February 1997

HMAC: Keyed-Hashing for Message Authentication

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```

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```

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3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
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5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
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13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference

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 33. [36]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
 34. [37]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
 35. [38]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
 36. [39]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
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 42. [46]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
 43. [47]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
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45. [49]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
 46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
 47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
 48. [52]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
 49. [53]Michael Shields <shields@tembel.org> USNO clock driver
 50. [54]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
 51. [55]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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```
/* -*- Mode: Text -*- */
```

```
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  date = "1970-2011";
  owner = "David L. Mills and/or others";
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";
  type = note;
  text = <<<- _EndOfDoc_
see html/copyright.html
```

```

_EndOfDoc_;
};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;

version      = `
eval VERSION=\`sed -e 's/.*,\\[/' -e 's/^\\].*//' < ../version.m4`
[ -z "${VERSION}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION;

version-value = "; /* Don't use -v as a shortcut for --version */
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Version 3, 29 June 2007

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
```

```
<html>
```

```
<head>
```

```
<meta http-equiv="content-type" content="text/html; charset=iso-8859-1">
```

```
<title>Copyright Notice</title>
```

```
<link href="scripts/style.css" type="text/css" rel="stylesheet">
```

```
</head>
```

```
<body>
```

```
<h3>Copyright Notice</h3>
```

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

```
<p>Last update:
```

```
<!-- #BeginDate format:En2m -->1-Jan-2011 08:34<!-- #EndDate -->
```

```
UTC</csoobj></p>
```

```
<br clear="left">
```

```
<hr>
```

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<hr>

<script type="text/javascript" language="javascript" src="scripts/footer.txt"></script>

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1.55 oci-register-machine 0

:3.14.gitcd1e331.e17

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1.56 oci-systemd-hook 0.1.14

:2.git9b1e622.e17

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xenserver/opt_xensource_libexec_InterfaceReconfigureBridge.py
xenserver/opt_xensource_libexec_InterfaceReconfigureVswitch.py
xenserver/opt_xensource_libexec_interface-reconfigure
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sFlow Specification, located at
[1]<http://sflow.org/developers/specifications.php>

References

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1.60 psmisc 22.20 :15.el7

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1.62 python-backports-functools_lru_cache

1.2.1 :4.e17

1.63 python-cached_property 1.3.0 :7.e17

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1.64 python-crypto 2.6.1 :13.e17

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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.)

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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).
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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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=== EOF ===

# 1.65 python-docker-py 1.10.6 :3.el7

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converted to python May 2008

by Eli Collins

DES

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The source file ``passlib/utis/des.py`` contains code derived from

`UnixCrypt.java` <<http://www.dynamic.net.au/christos/crypt/UnixCrypt2.txt>>`\_,

a pure-java implementation of the historic unix-crypt password hash algorithm.

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UnixCrypt.java 0.9 96/11/25

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modified April 2001  
by Iris Van den Broeke, Daniel Deville

modified Aug 2005  
by Greg Wilkins (gregw)

converted to python Jun 2009  
by Eli Collins

jBCrypt

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The source file ``passlib/utils/\_blowfish/base.py`` contains code derived from `jBCrypt 0.2 <<http://www.mindrot.org/projects/jBCrypt/>>`, a Java implementation of the BCrypt password hash algorithm. It is available under a BSD/ISC license::

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## 1.77 python-repoze-lru 0.4 :(2011-09-04)

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## 1.78 python-texttable 0.9.1 :1.e17

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The precise terms and conditions for copying, distribution and modification follow.

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```
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```

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

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```
./gitignore X 2009
./ChangeLog X 2003,2004,2005,2006,2007
./LICENSE X 2003,2004,2005,2006,2007
./MANIFEST.in X 2003,2004,2005,2006,2007
./Makefile MAKE 2003,2004,2005,2006,2007,2009,2011
./README X 2003,2004,2005,2006,2007
./TODO X 2003,2004,2005,2006,2007
./dns/__init__.py PYTHON 2003,2004,2005,2006,2007,2009,2011
./dns/dnssec.py PYTHON 2003,2004,2005,2006,2007,2009,2011
./dns/e164.py PYTHON 2006,2007,2009,2011
./dns/edns.py PYTHON 2009,2011
./dns/entropy.py PYTHON 2009,2011
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./dns/rdtypes/ANY/CERT.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011
./dns/rdtypes/ANY/CNAME.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011
```

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./dns/rdtype/ANY/DNAME.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
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./dns/rdtype/ANY/NSEC3.py PYTHON 2004,2005,2006,2007,2009,2010,2011  
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Many thanks to the Heimdal developers for their support and cooperation in the use of the heimdal code in Samba.

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-- Tom St Denis

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Version 3, 29 June 2007
</para>
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Everyone is permitted to copy and distribute verbatim copies of this license
document, but changing it is not allowed.
</para>
<bridgehead renderas="sect1">
Preamble
</bridgehead>
<para>
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```



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</para>

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</para>

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Developers that use the <acronym>GNU</acronym> <acronym>GPL</acronym> protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

</para>

<para>

For the developers’s and authors’s protection, the <acronym>GPL</acronym> clearly explains that there is no warranty for this free software. For both users’s and authors’s sake, the <acronym>GPL</acronym> requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

</para>

<para>

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so.

This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the <acronym>GPL</acronym> to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the <acronym>GPL</acronym>, as needed to protect the freedom of users.

</para>

<para>

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the <acronym>GPL</acronym> assures that patents cannot be used to render the program non-free.

</para>

<para>

The precise terms and conditions for copying, distribution and modification follow.

</para>

<bridgehead>

TERMS AND CONDITIONS

</bridgehead>

<bridgehead renderas="sect1">

0. Definitions.

</bridgehead>

<para>

&ldquo;This License&rdquo; refers to version 3 of the <acronym>GNU</acronym> General Public License.

</para>

<para>

&ldquo;Copyright&rdquo; also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

</para>

<para>

&ldquo;The Program&rdquo; refers to any copyrightable work licensed under this License. Each licensee is addressed as &ldquo;you&rdquo;.  
&ldquo;Licensees&rdquo; and &ldquo;recipients&rdquo; may be individuals or organizations.

</para>

<para>

To &ldquo;modify&rdquo; a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a &ldquo;modified version&rdquo; of the earlier work or a work &ldquo;based on&rdquo; the earlier work.

</para>

<para>

A &ldquo;covered work&rdquo; means either the unmodified Program or a work based on the Program.

</para>

<para>

To &ldquo;propagate&rdquo; a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

</para>

<para>

To &ldquo;convey&rdquo; a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

</para>

<para>

An interactive user interface displays &ldquo;Appropriate Legal Notices&rdquo; to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

</para>

<bridgehead renderas="sect1">

1. Source Code.

</bridgehead>

<para>

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

</para>

<para>

A &ldquo;Standard Interface&rdquo; 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.

</para>

<para>

The &ldquo;System Libraries&rdquo; of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A &ldquo;Major Component&rdquo;, in this

context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

</para>

<para>

The &ldquo;Corresponding Source&rdquo; for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work&rsquo;s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

</para>

<para>

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

</para>

<para>

The Corresponding Source for a work in source code form is that same work.

</para>

<bridgehead renderas="sect1">

2. Basic Permissions.

</bridgehead>

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relationship with you.

</para>

<para>

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

</para>

<bridgehead renderas="sect1">

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

</bridgehead>

<para>

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

</para>

<para>

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

</para>

<bridgehead renderas="sect1">

4. Conveying Verbatim Copies.

</bridgehead>

<para>

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

</para>

<para>

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

</para>

<bridgehead renderas="sect1">

5. Conveying Modified Source Versions.

</bridgehead>

<para>

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

</para>

<orderedlist numeration="loweralpha">

<listitem>

<para>

The work must carry prominent notices stating that you modified it, and giving a relevant date.

</para>

</listitem>

<listitem>

<para>

The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to &ldquo;keep intact all notices&rdquo;.

</para>

</listitem>

<listitem>

<para>

You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

</para>

</listitem>

<listitem>

<para>

If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

</para>

</listitem>

</orderedlist>

<para>

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an &ldquo;aggregate&rdquo; if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation&rsquo;s users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

</para>

<bridgehead renderas="sect1">

6. Conveying Non-Source Forms.

</bridgehead>

<para>

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

</para>

<orderedlist numeration="loweralpha">

<listitem>

<para>

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

</para>

</listitem>

<listitem>

<para>

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

</para>

</listitem>

<listitem>

<para>

Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

</para>

</listitem>

<listitem>

<para>

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source.

Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

</para>

</listitem>

<listitem>

<para>

Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

</para>

</listitem>

</orderedlist>

<para>

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.

</para>

<para>

A “User Product” is either (1) a “consumer product”, which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, “normally used” refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

</para>

<para>

“Installation Information” for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

</para>

<para>

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding



Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in

</para>

<para>

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

</para>

<para>

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

</para>

<bridgehead renderas="sect1">

7. Additional Terms.

</bridgehead>

<para>

&ldquo;Additional permissions&rdquo; are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

</para>

<para>

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

</para>

<para>

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

</para>

```
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    <para>
      Disclaiming warranty or limiting liability differently from the terms
      of sections 15 and 16 of this License; or
    </para>
  </listitem>
  <listitem>
    <para>
      Requiring preservation of specified reasonable legal notices or author
      attributions in that material or in the Appropriate Legal Notices
      displayed by works containing it; or
    </para>
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    <para>
      Prohibiting misrepresentation of the origin of that material, or
      requiring that modified versions of such material be marked in
      reasonable ways as different from the original version; or
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    <para>
      Limiting the use for publicity purposes of names of licensors or
      authors of the material; or
    </para>
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      Declining to grant rights under trademark law for use of some trade
      names, trademarks, or service marks; or
    </para>
  </listitem>
  <listitem>
    <para>
      Requiring indemnification of licensors and authors of that material by
      anyone who conveys the material (or modified versions of it) with
      contractual assumptions of liability to the recipient, for any
      liability that these contractual assumptions directly impose on those
      licensors and authors.
    </para>
  </listitem>
</orderedlist>
<para>
  All other non-permissive additional terms are considered “further
  restrictions” within the meaning of section 10. If the Program as
  you received it, or any part of it, contains a notice stating that it is
  governed by this License along with a term that is a further restriction,
```

you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

</para>

<para>

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

</para>

<para>

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

</para>

<bridgehead renderas="sect1">

8. Termination.

</bridgehead>

<para>

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

</para>

<para>

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

</para>

<para>

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

</para>

<para>

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

</para>

<bridgehead renderas="sect1">

## 9. Acceptance Not Required for Having Copies.

</bridgehead>

<para>

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

</para>

<bridgehead renderas="sect1">

## 10. Automatic Licensing of Downstream Recipients.

</bridgehead>

<para>

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

</para>

<para>

An “entity transaction” is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party’s predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

</para>

<para>

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

</para>

<bridgehead renderas="sect1">

## 11. Patents.

</bridgehead>

<para>

A “contributor” is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The

work thus licensed is called the contributor's "contributor version".

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<para>

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

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<para>

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<para>

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

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<para>

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

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<para>

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to

all recipients of the covered work and works based on it.

</para>

<para>

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</para>

<para>

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

</para>

<bridgehead renderas="sect1">

12. No Surrender of Others’ Freedom.

</bridgehead>

<para>

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

</para>

<bridgehead renderas="sect1">

13. Use with the <acronym>GNU</acronym> Affero General Public License.

</bridgehead>

<para>

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the <acronym>GNU</acronym> Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the <acronym>GNU</acronym> Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

</para>

<bridgehead renderas="sect1">

14. Revised Versions of this License.

</bridgehead>

<para>

The Free Software Foundation may publish revised and/or new versions of the <acronym>GNU</acronym> General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

</para>

<para>

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the <acronym>GNU</acronym> General Public License &ldquo;or any later version&rdquo; applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the <acronym>GNU</acronym> General Public License, you may choose any version ever published by the Free Software Foundation.

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<para>

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

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<bridgehead renderas="sect1">

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</bridgehead>

<para>

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</para>

<bridgehead renderas="sect1">

16. Limitation of Liability.

</bridgehead>

<para>

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</para>

<bridgehead renderas="sect1">

17. Interpretation of Sections 15 and 16.

</bridgehead>

<para>

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

</para>

<bridgehead>

END OF TERMS AND CONDITIONS

</bridgehead>

<bridgehead renderas="sect1">

How to Apply These Terms to Your New Programs

</bridgehead>

<para>

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

</para>

<para>

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 state the exclusion of warranty; and each file should have at least the &ldquo;copyright&rdquo; line and a pointer to where the full notice is found.

</para>

<screen>

<replaceable>one line to give the program&rsquo;s name and a brief idea of what it does.</replaceable>  
Copyright (C) <replaceable>year</replaceable> <replaceable>name of author</replaceable>

This program is free software: you can redistribute it and/or modify it under the terms of the <acronym>GNU</acronym> General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.



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

You should have received a copy of the `<acronym>GNU</acronym>` General Public License along with this program. If not, see `<ulink url="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</ulink>`.

`</screen>`

`<para>`

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

`</para>`

`<para>`

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

`</para>`

`<screen>`

`<replaceable>program</replaceable>` Copyright (C) `<replaceable>year</replaceable>` `<replaceable>name of author</replaceable>`

This program comes with ABSOLUTELY NO WARRANTY; for details type `&lsquo;<literal>show w</literal>&rsquo;`;

This is free software, and you are welcome to redistribute it under certain conditions; type `&lsquo;<literal>show c</literal>&rsquo;`; for details.

`</screen>`

`<para>`

The hypothetical commands `&lsquo;<literal>show w</literal>&rsquo;` and `&lsquo;<literal>show c</literal>&rsquo;` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an `&ldquo;about box&rdquo;`;

`</para>`

`<para>`

You should also get your employer (if you work as a programmer) or school, if any, to sign a `&ldquo;copyright disclaimer&rdquo;`; for the program, if necessary. For more information on this, and how to apply and follow the `<acronym>GNU</acronym>` `<acronym>GPL</acronym>`, see `<ulink url="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</ulink>`.

`</para>`

`<para>`

The `<acronym>GNU</acronym>` General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the `<acronym>GNU</acronym>` Lesser General Public License instead of this License. But first, please read `<ulink`

`url="http://www.gnu.org/philosophy/why-not-lgpl.html">http://www.gnu.org/philosophy/why-not-lgpl.html</ulink>`.

`</para>`

`</appendix>`

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    <para> Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is
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  <title>Preamble</title>
  <para>    The licenses for most software are designed to take away your
  freedom to share and change it. By contrast, the GNU General Public License is
  intended to guarantee your freedom to share and change
  free software - to make sure the software is free for all its users.
  This General Public License applies to most of the Free Software
  Foundation's software and to any other program whose authors commit
  to using it. (Some other Free Software Foundation software is covered
  by the GNU Library General Public License instead.) You can apply it
  to your programs, too.
  </para>
  <para>    When we speak of free software, we are referring to freedom, not price.
  Our General Public Licenses are designed to make sure that you have the
  freedom to distribute copies of free software (and charge for this
  service if you wish), that you receive source code or can get it if you
  want it, that you can change the software or use pieces of it in new free
  programs; and that you know you can do these things.
  </para>
  <para>    To protect your rights, we need to make restrictions that forbid anyone

```

to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

</para>

<para> For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

</para>

<para> We protect your rights with two steps:

<orderedlist>

<listitem>

<para> copyright the software, and

</para>

</listitem>

<listitem>

<para> offer you this license which gives you legal permission to copy, distribute and/or modify the software.

</para>

</listitem>

</orderedlist>

</para>

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

</para>

<para> Finally, any free program is threatened constantly by software patents.

We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

</para>

<para> The precise terms and conditions for copying, distribution and modification follow.

</para>

</sect1>

<sect1>

<title>TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION</title>

<sect2>

<title>Section 0</title>

<para> This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a

<quote>work based on the Program

</quote> means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term <quote>modification </quote>.) Each licensee is addressed as <quote>you</quote>.

</para>  
<para> Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

</para>  
</sect2>  
<sect2 id="sect1">  
<title>Section 1</title>  
<para> You may copy and distribute verbatim copies of the Program's 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 give any other recipients of the Program a copy of this License along with the Program.

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

</para>  
</sect2>  
<sect2 id="sect2">  
<title>Section 2</title>  
<para> You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of

<link linkend="sect1">Section 1  
</link> above, provided that you also meet all of these conditions:

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

</para>  
</listitem>  
<listitem>  
<para> You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

</para>

</listitem>  
<listitem>  
<para> If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.  
<note>  
<title>Exception:  
</title>  
<para> If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)  
</para>  
</note>  
</para>  
</listitem>  
</orderedlist>  
</para>  
<para> These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, 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 Program, 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.  
</para>  
<para> 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 Program.  
</para>  
<para> In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.  
</para>  
</sect2>  
<sect2>  
<title>Section 3  
</title>  
<para> You may copy and distribute the Program (or a work based on it, under [Section 2](#) in object code or executable form under the terms of [Sections 1](#) and [2](#)

</link> above provided that you also do one of the following:

<orderedlist>

<listitem>

<para> 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; or,

</para>

</listitem>

<listitem>

<para> Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

</para>

</listitem>

<listitem>

<para> Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

</para>

</listitem>

</orderedlist>

</para>

<para> The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. 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.

</para>

<para> If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

</para>

</sect2>

<sect2>

<title>Section 4

</title>

<para> You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

</para>

</sect2>

<sect2>

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## :2.dev.git2e8377a.el7.centos

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```
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```

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```
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```

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Default files for the Schily Makefile system (CDDL)  
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# 1.88 time 1.7 :45.e17

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