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Text Part Number: 78EE117C99-203263297
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1.6 c3p0 0.9.1.1
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</head>
</html>
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1.11 commons-beanutils 1.9.3

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1.23 HttpCore 4.3.2

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1.24 HttpCore 4.2.4

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.27 jackson-core-asl 1.9.13

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1.29 jackson-dataformat-yaml 2.5.4

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1.31 jackson-mapper-asl 1.9.13

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1.32 Java Servlet API 3.1.0

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1.43 jersey-guava 2.12

1.44 jettison 1.3.1
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1.45 json 2.0131114E7

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1.46 log4j 1.2.17

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1.50 SLF4J API Module 1.5.8

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1.51 slf4j-api 1.7.7
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 * 
 */
package org.slf4j;

import org.slf4j.helpers.BasicMarkerFactory;
import org.slf4j.helpers.Util;
import org.slf4j.impl.StaticMarkerBinder;

/**
 * MarkerFactory is a utility class producing [@link Marker] instances as
 * appropriate for the logging system currently in use.
 * 
 */
```
This class is essentially implemented as a wrapper around an `@link IMarkerFactory` instance bound at compile time.

Please note that all methods in this class are static.

@author Ceki G"u"lç"u"l

```
public class MarkerFactory {
    static IMarkerFactory markerFactory;

    private MarkerFactory() {
    }

    static {
        try {
            markerFactory = StaticMarkerBinder.SINGLETON.getMarkerFactory();
        } catch (NoClassDefFoundError e) {
            markerFactory = new BasicMarkerFactory();
        } catch (Exception e) {
            // we should never get here
            Util.report("Unexpected failure while binding MarkerFactory", e);
        }
    }

    /**
     * Return a Marker instance as specified by the name parameter using the
     * previously bound `@link IMarkerFactory`instance.
     *
     * @param name
     * @return marker
     */
    public static Marker getMarker(String name) {
        return markerFactory.getMarker(name);
    }

    /**
     * Create a marker which is detached (even at birth) from the MarkerFactory.
     *
     * @param name the name of the marker
     * @return a dangling marker
     * @since 1.5.1
     */
    public static Marker getDetachedMarker(String name) {
        return markerFactory.getDetachedMarker(name);
    }
```
/**
 * Return the @{link IMarkerFactory} instance in use.
 *
 * <p>The IMarkerFactory instance is usually bound with this class at
 * compile time.
 *
 * @return the IMarkerFactory instance in use
 */
public static IMarkerFactory getIMarkerFactory() {
    return markerFactory;
}

1.52 slf4j-log4j12 1.5.8

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1.54 snakeyaml 1.18

1.55 stateless4j 2.5.0

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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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

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2.9 consul-cli 0.2.0

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procfs provides functions to retrieve system, kernel and process
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Version 2, December 2004

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## cli.go - https://github.com/codegangsta/cli

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2.22 ipvsadm 1:1.28-3
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ipvsadm - Version 1.14 - 11th January 2001

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ipvsadm is a utility to administer the IP virtual server services offered by the Linux kernel with IP virtual server support.

This version of ipvsadm requires IPVS module v0.0.5 for kernel 2.4 or later. Check out the Linux Virtual Server Project home page on the World Wide Web:
http://www.LinuxVirtualServer.org/
or
http://www.Linux-VS.org/
for the most recent information and original sources about ipvsadm.

To make, make sure your Linux kernel is already patched with IPVS and "make menuconfig" or "make xconfig" to setup the right compiling options, see the README of the virtual server patch for detail, then simply type make
in the source directory.

Install to your liking. We suggest the following pathnames:
/sbin/ipvsadm
/usr/man/man8/ipvsadm.8
This will be done automatically when calling make install in the source directory.
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2.24 javolution 5.5.1

2.25 Jdiameter 1.5.1.24

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2.26 Jinja2 2.8 :1

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2.27 jna 4.1.0

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The primary ANTLR guy:

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parrt@antlr.org

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their package name from 'com.google.json' to 'clover.com.google.json'. This was necessary to 
avoid potential name conflicts during instrumentation of a code using the original library when using Clover. 
No source code of the original library was modified.

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Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package name from 'com.lowagie' to 'clover.com.lowagie'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover.

No source code of the original library was modified.

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

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/*
 File: Core.js

Description:

Provides common utility functions and the Class object used internally by the library.

Also provides the <TreeUtil> object for manipulating JSON tree structures


Author:

Nicolas Garcia Belmonte

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their package names from 'it.unimi.dsi.fastutil' to 'clover.it.unimi.dsi.fastutil'. This was necessary to
avoid potential name conflicts during instrumentation of a code using the original library when using Clover.
No source code of the original library was modified.

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2.28 kafka_2.11-100 2.11-1.0.0

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Jan Holmberg, <jan@artech.net>:
- Memory framework
- HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au>:
- MISC checker redesign
- Scheduler framework extension to support child process handling.
- Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu>:
- Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
- Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com>:
- Fixed shadowed declaration reported by -Wshadow.
- Redesigned signal handling.

Nick Couchman, <nick.couchman@seakr.com>:
- Patch for u_threshold and l_threshold support.

Willy Tarreau, <w@1wt.eu>:
- Extended VRRP framework to support floating priority.

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Jan Holmberg, <jan@artech.net>:
- Memory framework
- HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au>:
- MISC checker redesign
- Scheduler framework extension to support child process handling.
- Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu>:
- Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
- Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com>:
- Fixed shadowed declaration reported by -Wshadow.
- Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com>:
- Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at Iwt.eu>:
- Extended VRRP framework to support floating priority.

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Contributors

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- Chris McDonough, 2005-12-18

- Tres Seaver, 2006-02-09

- Jorge Puente Sarrn, 2012-11-27

2.36 memcached 1.4.25

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A list is generated from git here: http://memcached.org/about

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tomb - support for clean goroutine termination in Go.

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mgo - MongoDB driver for Go

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mgo - MongoDB driver for Go

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---------------------------------------------
tomb - support for clean goroutine termination in Go.

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zlib.h -- interface of the 'zlib' general purpose compression library
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A light-weight compression algorithm. It is designed for speed of
compression and decompression, rather than for the utmost in space savings.

For getting better compression ratios when you are compressing data with long repeated sequences or compressing data that is similar to other data, while still compressing fast, you might look at first using BMDiff and then compressing the output of BMDiff with Snappy.

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zlib.h -- interface of the 'zlib' general purpose compression library
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BSON library for Go

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mgo - MongoDB driver for Go

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mgo:

mgo - MongoDB driver for Go

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BSON library for Go

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________________________________________
tomb - support for clean goroutine termination in Go.

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PCRE JUST-IN-TIME COMPILATION SUPPORT
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A light-weight compression algorithm. It is designed for speed of
compression and decompression, rather than for the utmost in space
savings.

For getting better compression ratios when you are compressing data
with long repeated sequences or compressing data that is similar to
other data, while still compressing fast, you might look at first
using BMDiff and then compressing the output of BMDiff with
Snappy.

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zlib.h -- interface of the 'zlib' general purpose compression library

version 1.2.8, April 28th, 2013
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2.44 nginx 1.11.12

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

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

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

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Open-vm-tools v10.0.7

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

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>>> base64.c-none
>>> convertutf.c/.h from unicode, inc.-none
>>> freebsd-1.72
>>> icu4c-4.4.1
>>> unicode-5.0

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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp$ /
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>>> convertutf.c/.h from unicode, inc.-none

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>>> icu4c-4.4.1

ICU License - ICU 1.8.1 and later

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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directing the user to the copy of this License. Also, you must do one
of these things:

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

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

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
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2.55 perl-base 5.22.1 :9

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ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBM_File/*
ext/Opcode/*
ext/PerlIO-encoding/*
ext/PerlIO-scalar/*
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>,'
  - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3
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--------------------------------------------------------------------------------------------------

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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

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

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Julian Seward, jseward@bzip.org
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--------------------------------------------------------------------------

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the
Module-Build mailing list at <module-build@perl.org>.'
buildRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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  version: 3
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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"
}

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# mailto:zooko@zooko.com
#
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# ElementTree
# $Id: ElementInclude.py 1862 2004-06-18 07:31:02Z Fredrik $
#
# limited xinclude support for element trees
#
# history:
# 2003-08-15 fl   created
# 2003-11-14 fl   fixed default loader
#
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#
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Mersenne Twister

The :mod:`_random` module includes code based on a download from http://www.math.keio.ac.jp/ matumoto/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
   http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

XML Remote Procedure Calls
--------------------------

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test_epoll

--------

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Select kqueue
-------------

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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Jean-loup Gailly    Mark Adler
jloup@gzip.org      madler@alumni.caltech.edu

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

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# $echo "$cfgfile" | sed 's%^.*/%%' - Provide generalized library-building support services.
# Generated automatically by $PROGRAM (GNU $PACKAGE $VERSION$TIMESTAMP)
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/* *------------------------------------------------------------------------*/

unicodedata -- Provides access to the Unicode 5.1 data base.

Data was extracted from the Unicode 5.1 UnicodeData.txt file.

Written by Marc-Andre Lemburg (mal@lemburg.com).
Modified for Python 2.0 by Fredrik Lundh (fredrik@pythonware.com)
Modified by Martin v. L"wis (martin@v.loewis.de)

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/* -----------------------------------------------------------------------
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IA64/unix Foreign Function Interface

Original author: Hans Boehm, HP Labs

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new, original C python code was added to implement the
Random() interface.

The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp
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#
# Module Name: dbShelve.py
#
# Description: A reimplementation of the standard shelve.py that
# forces the use of cPickle, and DB.
#
# Creation Date: 11/3/97 3:39:04PM
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#
# -- Gregory P. Smith <greg@krypto.org>
#
# $Id: test_dbtables.py 66088 2008-08-31 14:00:51Z jesus.cea $
# Original version written by Greg Stein (gstein@lyra.org)
# and Bill Tutt (rassilon@lima.mudlib.org)
# February 1997.
#
# Modifications and improvements for Python 2.0 by Jeremy Hylton and
# Mark Hammond
#
# Some fixes to try to have correct line number on almost all nodes
# (except Module, Discard and Stmt) added by Sylvain Thenault
#
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

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

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

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2.64 python-minimal 2.7.11 :1

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2.65 python-pkg-resources 20.7.0 :1

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2.66 python3.5/readline 3.5.2 :2~16.01

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

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

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Mersenne Twister

The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)` or `init_by_array(init_key, key_length)`.

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Any feedback is very welcome.
Sockets
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The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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Cookie management

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with python standard

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------------------------------------------------------------------------------
tools/shhopt.c, tools/shhopt.h:
Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
traditional one-character options, and GNU'ish
--long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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Title: shhopt - library for parsing command line options.
Version: 1.1.2
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Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
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netstd was created by Peter Tobias tobias@et-inf.fho-emden.de on Wed, 20 Jul 1994 17:23:21 +0200.

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#!/bin/bash
# assert.sh 1.1 - bash unit testing framework
# Copyright (C) 2009-2015 Robert Lehmann
#
# http://github.com/lehmannro/assert.sh
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export DISCOVERONLY=${DISCOVERONLY:-}
export DEBUG=${DEBUG:-}
export STOP=${STOP:-}
export INVARIANT=${INVARIANT:-}
export CONTINUE=${CONTINUE:-}

args=""$(getopt -n "$0" -l verbose,help,stop,discover,invariant,continue vhxdic $*)" \
   || exit -1
for arg in $args; do
   case "$arg" in

```bash
-h)
echo "$0 [-v]"
echo ""sed 's/./ /g' <<< "$0"" [-h] [-h] [-h] [-h] [-h]
ext 0;;
--help)
cat <<EOF
Usage: $0 [options]
Language-agnostic unit tests for subprocesses.

Options:
  -v, --verbose    generate output for every individual test case
  -x, --stop       stop running tests after the first failure
  -i, --invariant  do not measure timings to remain invariant between runs
  -d, --discover   collect test suites only, do not run any tests
  -c, --continue   do not modify exit code to test suite status
  -h               show brief usage information and exit
  --help           show this help message and exit
EOF
exit 0;;
-v|--verbose)
    DEBUG=1;;
-x|--stop)
    STOP=1;;
-i|--invariant)
    INVARIANT=1;;
-d|--discover)
    DISCOVERONLY=1;;
-c|--continue)
    CONTINUE=1;;
esac
done

_indent=$'
	' # local format helper

_assert_reset() {
    tests_ran=0
    tests_failed=0
    tests_errors=()
    tests_starttime="$(date +%s%N)" # nanoseconds_since_epoch
}

assert_end() {
    # assert_end [suite ..]
    tests_endtime="$(date +%s%N)"
    # required visible decimal place for seconds (leading zeros if needed)
    tests_time="$(
        printf "%.10d" "$\{\$(tests_endtime/\%N/000000000)\}"
    )
```
 tests=""$(tests_starttime/\%N/0000000000) )")" # in ns
tests="${tests_ran \(^\ast\:+\ast\ )}\ tests"
[[ -n "$DISCOVERONLY" ]] && & echo "collected $tests." && _assert_reset && return
[[ -n "$DEBUG" ]] && & echo
# to get report_time split tests_time on 2 substrings:
# $(tests_time:0:${#tests_time}-9) - seconds
# $(tests_time:${#tests_time}-9:3) - milliseconds
[[ -z "$INVARIANT" ]] \
   && report_time=" in $(tests_time:0:${#tests_time}-9).$(tests_time:${#tests_time}-9:3)s" \
   || report_time=
if [[ "$tests_failed" -eq 0 ]]; then
   echo "all $tests passed$report_time."
else
   for error in "${tests_errors[@]}"; do echo "$error"; done
   echo "$tests_failed of $tests failed$report_time."
fi
tests_failed_previous=$tests_failed
[[ tests_failed -gt 0 ]] && tests_suite_status=1
_assert_reset
}
assert() {
# assert <command> <expected stdout> [stdin]
(( tests_ran++ )) || :
[[ -z "$DISCOVERONLY" ]] || return
expected=$(echo -ne "$2")
result="$(eval 2>/dev/null $1 <<< "$3")" || true
if [[ "$result" == "$expected" ]]; then
   [[ -z "$DEBUG" ]] || echo -n .
   return
fi
result="$(sed -e :a -e '$!N;s/\n/\n/;ta' <<< "$result")"
[[ -z "$result" ]] && & result="nothing" || result="\"$result\"
[[ -z "$2" ]] && & expected="nothing" || expected="\"$2\"
_assert_fail "expected $expected${_indent}got $result" "$1" "$3"
}
assert_raises() {
# assert_raises <command> <expected code> [stdin]
(( tests_ran++ )) || :
[[ -z "$DISCOVERONLY" ]] || return
status=0
(eval $1 <<< "$3") > /dev/null 2>&1 || status=0
expected=$2
if [[ "$status" -eq "$expected" ]]; then
   [[ -z "$DEBUG" ]] || echo -n .
   return

_assert_fail "program terminated with code $status instead of $expected" "$1" "$3"
}

_skip() {
  # skip (no arguments)
  shopt -q extdebug && tests_extdebug=0 || tests_extdebug=1
  shopt -q -o errexit && tests_errexit=0 || tests_errexit=1
  # enable extdebug so returning 1 in a DEBUG trap handler skips next command
  shopt -s extdebug
  # disable errexit (set -e) so we can safely return 1 without causing exit
  set +o errexit
  tests_trapped=0
  trap _skip DEBUG
}

_skip() {
  if [[ $tests_trapped -eq 0 ]]; then
    # DEBUG trap for command we want to skip. Do not remove the handler
    # yet because *after* the command we need to reset extdebug/errexit (in
    # another DEBUG trap.)
    tests_trapped=1
    [[ -z "$DEBUG" ]] || echo -n s
    return 1
  else
    trap - DEBUG
    [[ $tests_extdebug -eq 0 ]] || shopt -u extdebug
    [[ $tests_errexit -eq 1 ]] || set -o errexit
    return 0
  fi
}
2.82 zulu8 8.20.0.5

2.82.1 Available under license:

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Version 2, June 1991

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888   8  888 .d88'  Y888..8P
888   8  888o 88P'   `8888'
888   8  888   .8PY888.
`88.  .8'  888    d8'  `888b
`YbodP' o888o  o888o o88888o
```

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888  8 888 .d88' Y888..8P
888  8 888ooo88P` `8888'
888  8 888  .8PY888.
`88. .8' 888  d8` 888b
`YbodP' o888o o888o o88888o
```

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-- activemq-web
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-- activemq-web

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package org.apache.commons.codec;

/**
 * Defines common decoding methods for byte array decoders.
 * @author Apache Software Foundation
 * @version $Id: BinaryDecoder.java,v 1.10 2004/06/15 18:14:15 ggregory Exp $
 */
public interface BinaryDecoder extends Decoder {

  /**
   * Decodes a byte array and returns the results as a byte array.
   *
   * @param pArray A byte array which has been encoded with the
   *      appropriate encoder
   *
   * @return a byte array that contains decoded content
   *
   * @throws DecoderException A decoder exception is thrown
   *          if a Decoder encounters a failure condition during
   *          the decode process.
   */
  byte[] decode(byte[] pArray) throws DecoderException;
}

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

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

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

Changes in this version include:

New Features:

- BinaryCodec: Encodes and decodes binary to and from Strings of 0s and 1s. Issue: 27813. Thanks to Alex Karasulu.
- QuotedPrintableCodec: Codec for RFC 1521 MIME (Multipurpose Internet Mail Extensions) Part One. Rules #3, #4, and #5 of the quoted-printable spec are not implemented yet. See also issue 27789. Issue: 26617. Thanks to Oleg Kalnichevski.
o **BCCodec**: Identical to the Base64 encoding defined by RFC 1521 and allows a character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.

o **QCodec**: Similar to the Quoted-Printable content-transfer-encoding defined in RFC 1521 and designed to allow text containing mostly ASCII characters to be decipherable on an ASCII terminal without decoding. Issue: 26617. Thanks to Oleg Kalnichevski.

o **Soundex**: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.

o **RefinedSoundex**: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.

Fixed bugs:

o The default URL encoding logic was broken. Issue: 25995. Thanks to Oleg Kalnichevski.

o Base64 chunked encoding not compliant with RFC 2045 section 2.1 CRLF. Issue: 27781. Thanks to Gary D. Gregory.

o Hex converts illegal characters to 255. Issue: 28455.

o Metaphone now correctly handles a silent B in a word that ends in MB. "COMB" is encoded as "KM", before this fix "COMB" was encoded as "KMB". Issue: 28457.

o Added missing tags in Javadoc comments.

o General Javadoc improvements.

Changes:

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

Have fun!

-The commons-codec team

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3.22 argparse 1.3.0
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History
-------

Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

A. HISTORY OF THE SOFTWARE

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

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

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

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

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3.23 asn1crypto 0.24.0
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3.24 aspectjrt 1.8.7
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3.25 aspectjweaver 1.8.7

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<td>20.9.3.2-37</td>
<td>Martin Stransky <a href="mailto:mstransky@redhat.com">mstransky@redhat.com</a></td>
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**Open Source Used In Policy Suite 19.4.0**

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9.1.2-1 Bernhard Rosenkraenzer <bero@redhat.com> 9.1.2-0.rc1.1 Bernhard Rosenkraenzer <bero@redhat.com> 9.1.1-1 Bernhard Rosenkraenzer <bero@redhat.com> 9.1.0-10 Bernhard Rosenkraenzer <bero@redhat.com> 9.1.0-9 Bernhard Rosenkraenzer <bero@redhat.com> Nalin Dahyabhai <nalin@redhat.com> Bernhard Rosenkraenzer <bero@redhat.com> Bernhard Rosenkraenzer <bero@redhat.com> Bernhard Rosenkraenzer <bero@redhat.com> Bernhard Rosenkraenzer <bero@redhat.com> Bernhard Rosenkraenzer <bero@redhat.com> Bernhard Rosenkraenzer <bero@redhat.com> Bernhard Rosenkraenzer <bero@redhat.com> Bernhard Rosenkraenzer <bero@redhat.com> Bernhard Rosenkraenzer <bero@redhat.com> Bernhard Rosenkraenzer <bero@redhat.com> Bernhard Rosenkraenzer <bero@redhat.com> Bernhard Rosenkraenzer <bero@redhat.com> Bernhard Rosenkraenzer <bero@redhat.com> Bernhard Rosenkraenzer <bero@redhat.com> Bernhard Rosenkraenzer <bero@redhat.com> Bernhard Rosenkraenzer <bero@redhat.com> Bernhard Rosenkraenzer <bero@redhat.com> Bernhard 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Galan <manolow@step.es> Scott Lampert <fortunato@heavymetal.org>- Fix CVE-2017-3145- Fix named-chroot restart leak (#1504700)- Fix CVE-2017-3142 and CVE-2017-3143- Update root servers and trust anchor (#1452635)- Address deadlock between view.c and adb.c (#1416304)- Fix CVE-2017-3136 (ISC change 4575) - Fix CVE-2017-3137 (ISC change 4578)- Simplify change of used config file, point to KB article (#1271315)- Make comment how to use different config file (#1271315)- Install again dns/dlz.h skipped in rebase - Fixed coverity warnings on reenabled test dlzexternal- Backported new upstream dyndb interface, removed dynamic_db (#1393886)- Do not warn on WKS patch (#1392362)- Support WKS records in chroot- Fix CVE-2017-3135 (ISC change 4557) - Fix and test caching CNAME before DNAME (ISC change 4558)- Fix possible infinite loop in start_lookup (CVE-2016-2775)- Do not change lib permissions in chroot (#1392531)- Fix CVE-2016-9131 (ISC change 4508) - Fix CVE-2016-9147 (ISC change 4510)- Fix regression introduced by CVE-2016-8864 (ISC change 4530)- Fix CVE-2016-9444 (ISC change 4517)- Fix CVE-2016-8864- Fix CVE-2016-2776- Added automatic interface
scan functionality (#1294506)
- Removed NetworkManager dispatcher script since it is not needed anymore (#1294506)
- Added GeoIP support (#1220594)
- Added support for CA records (#1306610)
- Use HTTPS URL instead of FTP for upstream sources (#1319280)
- Fix excessive queries caused by DS chasing with stub zones when DNSSEC is not used (#1291185)
- Fix error in internal test suite (#1259514)
- Fix named-checkconf call in *-chroot.service files (#1278082)
- Fix incorrect path in BIND sample configuration and added comment to default configuration (#1247502)
- Fix CVE-2016-1285 and CVE-2016-1286-
- Fix CVE-2015-8704-
- Fix CVE-2015-5722-
- Increase ISC_SOCKET_MAXEVENTS to 2048 (#1236475)
- Don't copy /etc/localtime on -chroot package installation (#1186773)
- Fix SPF resource records check to comply with RFC7208 (#1215164)
- Don't use ISC's DLV by default (#1223336)
- Add version specific requires on bind for bind-pkcs11 (Related: #1097753)
- Resolve issues found by static analysis (Related: #1097753)-
- Added native PKCS#11 functionality (#1097753)-
- DNS resolution failure in high load environment with SERVFAIL and "out of memory/success" in the log (#1211180)-
- Install config for tmpfiles under %{_tmpfilesdir} (#1180976)
- Fixed systemctl path in logrotate configuration (#1164264)
- remove information about system-config-bind from named.8 man page (#1152066)-
- Fix CVE-2015-1349-
- Fix CVE-2014-8500 (#1171976)-
- Fix error in dyndb API that can cause named to freeze on shutdown (#1142150)
- Fix error in triggerun scriptlet (#1143033)
- Remove /var/named/chroot/var/run on bind-chroot update if it is a directory (#1091341)-
- Add versioned requires on bind-libs to bind-utils and bind-sdb-
- Use /dev/urandom when generating rndc.key file (#1107568)
- Allow authentication using TSIG in allow-notify configuration statement (#1067424)
- Fix race condition when destroying a resolver fetch object (#1072379)
- Increase defaults for lwresd workers and make client objects number configurable (#1098595)
- Configure BIND with --with-dlopen=yes to support dynamically loadable DLZ drivers (#1096688)-
- Mass rebuild 2014-01-24-
- Rebuild for mariadb-libs
Related: #1045013-
- Fix CVE-2014-0591- Build against libdb instead of libdb4 (#1044990)-
- Mass rebuild 2013-12-27-
- Fix crash in rbtodb after two successive getoriginnode() calls (#1044026)- Split chroot package for named and named-sdb
- Extract setting-up/destroying of chroot to a separate systemd service (#1004300)- Create symlink
/var/named/chroot/var/run -> /var/named/chroot/run (#1024384)
- Added session-keyfile statement into default named.conf since we use /run/named (#1024384)-
- Fixed memory leak in nsupdate if 'realm' was used multiple times (#1034824)- Install configuration for rwtab and fix chroot setup script (#1028189)
- use --enable-filter-aaaa when building bind to enable filter-aaaa-on-v4 option (#1025245)- Correct the patch for #1020683-
- Fix race condition on send buffers in dighost.c (#1020683)- install isc/errno2result.h header (#1015165)-
- update to 9.9.4 (#1010200)
- drop merged patches
- modify patches to fit on new version-
- Fix [ISC-Bugs #34738] dns_journal_open() returns a pointer to stack-
- Don't generate rndc.key if there exists rndc.conf- don't install named-sdb.service if SDB macro is defined to zero-
- update to 9.9.3-P2 (fix for CVE-2013-4854)
- update RRL patch to 9.9.3-P2-rl.13207.22
- Fix script for setting up chroot so it unmounts everything successfully-
- Fix dates in Changelog- update to 9.9.3-P1 (fix for CVE-2013-3919)
- update RRL patch to 9.9.3-P1-rl.156.01- bump release to prevent update path issues- update to 9.9.3
- install dns/update.h header
- update RRL patch to the latest version 9.9.3-rl.150.20- Fix segfault in host/nslookup (#878139)- update to 9.9.3rc2
- part of bind97-exportlib.patch not needed any more
- bind-9.9.1-P2-multlib-conflict.patch modified to reflect latest source
- rl-9.9.3rc1.patch -> rl-9.9.3rc2.patch
- bind99-opts.patch merged- Include recursion Warning in named.conf and named.conf.sample (#740894)
- Include managed-keys-directory statement in named.conf.sample (#948026)- Fix zone2sqlite to quote table names when creating/dropping/inserting (#919417)- fix crash in nsupdate when processing ":r" parameter (#949544)- ship dns/r1l.h in -devel subpkg- update to 9.9.3rc1
- bind-96-liibtool2.patch has been merged
- fix bind tmpfiles.d for named.pid /run migration (#920713)- New upstream patch version fixing CVE-2013-2266 (#928032)- move pidfile to /run/named/named.pid- Fix Makefile.in to include header added by rate limiting patch (#918330)- drop some developer-only documentation and move ARML to %docdir- include rate limiting patch-Corrected IP addresses in named.ca (#904666)mount/umount /var/named in setup-named-chroot.sh as the last one (#904666)- generate /etc/rndc.key during named service startup if doesn’t exist
- increase startup timeout in systemd units to 90sec (default)
- fix IDN related statement in dig.1 manpage- update to bind-9.9.2-P1- document dig exit codes in manpage
- ignore empty "search" options in resolv.conf- drop PKCS11 support on rhel- install isc/stat.h- update to 9.9.2
- bind97-rh714049.patch has been dropped
- patches merged
- bind98-rh816164.patch- update to bind-9.9.1-P3- fixed SPEC file so it comply with new systemd-rpm macros guidelines (#850045)
- changed %define macros to %global and fixed several rpmlint warnings- Changed PrivateTmp to "false" in -*.chroot.service unit files (#825869)- Fixed bind-devel multilib conflict (#478718)- Fixed bad path to systemctl in /etc/NetworkManager/dispatcher.d/13-named (#844047)
- Fixed path to libdb.so in config.dlz.in- update to 9.9.1-P2- Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild- Avoid shell invocation and dep for -libs-lite %postun.- update to 9.9.1-P1 (CVE-2012-1667)- update to 9.9.1
- bind99-coverity.patch merged
- bind-9.5-overflow.patch merged- nslookup: return non-zero exit code when fail to get answer (#816164)-initscript: don’t umount /var/named when didn’t mount it- apply all non-SDB patches before SDB ones (#804475)
- enable Berkeley DB DLZ backend (#804478)- bind97-rh699951.patch is no longer needed (different fix is in 9.9.0)- remove unneeded bind99-v6only.patch- update to 9.9.0
- load dynamic DBs later (and update dyndb patch)
- fix memory leak in named during processing of rndc command
- don’t call ‘rndc-confgen -a’ in "post" section
- fix some packaging bugs in bind-chroot- build with "--enable-fixed-rrset"- update to 9.9.0.rc2
- doc/rfc and doc/draft are no longer shipped in tarball- retire initscript in favour of systemd unit files (#719419)- update to 9.9.0- ship dns/named.forward.h in -devel subpkg- update to 9.9.0b2 (CVE-2011-4313)
- patches merged
- bind97-rh700097.patch
- bind99-cinfo.patch- ship dns/clientinfo.h in bind-devel- update to 9.9.0b1
- bind98-dlz_buildfix.patch merged- nslookup failed to resolve name in certain cases- remove deps filter, it is no longer needed (#739663)- fix logrotate config file (#725256)- update to 9.8.1
- ship /etc/trusted-key.key (needed by dig)
- use select instead of epoll in export libs (#735103)- fix DLZ related compilation issues
- make /etc/named.[root,iscdlv].key world-readable
- add bind-libs versioned requires to bind pkg- fix rare race condition in request.c
- print "the working directory is not writable" as debug message
- re-add configtest target to initscript
- initscript: sybsys name is always named, not named-sdb
- nsupdate returned zero when target zone didn't exist (#700097)
- nsupdate could have failed if server has multiple IPs and the first was unreachable (#714049)- update to 9.8.1rc1
- patches merged
  - bind97-rh674334.patch
  - bind97-cleanup.patch
  - bind98-includes.patch- improve patch for #725741- named could have crashed during reload when dyndb module is used (#725741)- update to 9.8.0-P4
  - bind98-libdns-export.patch merged- update the dyndb patch- fix compilation of libdns-export.so- update to 9.8.0-P2 (CVE-2011-1910)- update to 9.8.0-P1 (CVE-2011-1907)- rebuilt for mysql 5.5.10 (soname bump in libmysqlclient)- update to 9.8.0
  - bind97-rh665971.patch merged- revert previous change (integration with libnmserver)- integrate named with libnmserver library- include dns/rpz.h in -devel subpkg- update to 9.8.0rc1- update to 9.7.3
  - fix dig +trace on dualstack systems (#674334)
  - fix linkage order when building on system with older BIND (#665971)
  - reduce number of gcc warnings- Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild- update to 9.7.3rc1
  - bind97-krb5-self.patch merged- fix typo in initscript- fix "service named status" when used with named-sdb
  - don't check MD5, size and mtime of sysconfig/named- add new option DISABLE_ZONE_CHECKING to sysconfig/named- update to 9.7.3b1- iniscript should terminate only the correct "named" process (CVE-2011-1910)- fix "krb5-self" update-policy rule processing- update to 9.7.2-P3- added tmpfiles.d support (#656550)
  - removed old PID checking in iniscript- don't emit various informational messages by default (#645544)- move BIND9 internal libs back to %{_libdir}
- add "-export" suffix to public libraries (-lite subpkg)- ship -devel subpkg for internal libs, dnsperf needs it- new bind-libs-lite and bind-lite-devel subpkgs which contain public version of BIND 9 libraries
- don't ship devel files for internal version of BIND 9 libraries- update to 9.7.2-P2- update to 9.7.2- update to 9.7.2rc1- host: handle "debug", "attempts" and "timeout" options in resolv.conf well- update to 9.7.2b1
- patches merged
  - bind97-rh507429.patch- supply root zone DNSKEY in default configuration- update to 9.7.1-P2 (CVE-2010-0213)- remove outdated Copyright.caching-nameserver file
  - remove rfc1912.txt, it is already located in %doc/rfc directory
  - move COPYRIGHT to the bind-libs subpkg
- add COPYRIGHT to the -pkcs11 subpkg- update to 9.7.1-P1- update to 9.7.1
- improve the "dnssec-conf" trigger- update to 9.7.1rc1
- patches merged
  - bind97-keysdir.patch- update to 9.7.1b1
  - make /var/named/dynamic as a default directory for managed DNSSEC keys
  - add patch to get "managed-keys-directroy" option working
  - patches merged
  - bind97-managed-keyfile.patch
  - bind97-rh554316.patch- update dnssec-conf Obsoletes/Provides- update to 9.7.0-P2- added lost patch for #554316 (occasional crash in keytable.c)- active query might be destroyed in resume_dslookup() which triggered REQUIRE failure (#507429)- install SDB related manpages only when build with SDB- update to 9.7.0-P1- bind-sdb now
requires bind- add man-pages ldap2zone.1 zonetodb.1 zone2sqlite.1 named-sdb.8 (#525655)- fix multilib issue (#478718) [igorig]- improve automatic DNSSEC reconfiguration trigger
- initscript now returns 2 in case that action doesn't exist (#523435)
- enable/disable chroot when bind-chroot is installed/uninstalled- update to 9.7.0 final- obsolete dnssec-conf
- automatically update configuration from old dnssec-conf based
- improve default configuration; enable DLV by default
- remove obsolete triggerpostun from bind-libs subpackage- update to 9.7.0rc2- initscript LSB related fixes (#523435)- revert the "DEBUG" feature (#510283), it causes too many problems (#545128)- update to 9.7.0rc1
- bind97-headers.patch merged
- update default configuration- update to 9.7.0b3- install isc/namespace.h header- update to 9.7.0b2- update to 9.7.0b1
- add bind-pkcs11 subpackage to support PKCS11 compatible keystores for DNSSEC
- don't package named-bootconf utility, it is very outdated and unneeded- determine file size via `stat` instead of `ls` (#523682)- update to 9.7.0a3- improve chroot related documentation (#507795)
- add NetworkManager dispatcher script to reload named when network interface is activated/deactivated (#490275)
- don't set/unset named_write_master_zones SELinux boolean every time in initscript, modify it only when it's actually needed- update to 9.7.0a2
- merged patches
- bind-96-db_unregister.patch
- bind96-rh507469.patch- next attempt to fix the postun trigger (#520385)
- remove obsolete bind-9.3.1rc1-fix_libbind_includedir.patch- rebuild with new openssl- update the patch for dynamic loading of database backends- 9.6.1-P1 release (CVE-2009-0696)
- fix postun trigger (#513016, hopefully)- Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild-
- remove bind-9.3.3rc2-rndckey.patch- fix broken symlinks in bind-libs (#509635)
- fix typos in /etc/sysconfig/named (#509650)
- add DEBUG option to /etc/sysconfig/named (#510283)- improved "chroot automount" patches (#504596)
- host should fail if specified server doesn't respond (#507469)- 9.6.1 release
- simplify chroot maintenance. Important files and directories are mounted into chroot (see /etc/sysconfig/named for more info, #504596)
- fix doc/named.conf.default perms- 9.6.1rc1 release- update the patch for dynamic loading of database backends
- create %{_libdir}/bind directory
- copy default named.conf to doc directory, shared with s-c-bind (atkac)- update the patch for dynamic loading of database backends
- fix dns_db_unregister()
- useradd now takes "-N" instead of ",n" (atkac, #495726)
- print nicer error msg when zone file is actually a directory (atkac, #490837)- 9.6.1b1 release
- patches merged
- bind-96-isc_header.patch
- bind-95-rh469440.patch
- bind-96-realloc.patch
- bind9-fedora-0001.diff
- use -version-number instead of -version-info libtool param- logrotate configuration file now points to
/var/named/data/named.run by default (#489986)- fall back to insecure mode when no supported DNSSEC algorithm is found instead of SERVFAIL
- don't fall back to non-EDNS0 queries when DO bit is set- enable DNSSEC only if it is enabled in sysconfig/dnssec- add DNSSEC support to initscript, enabled it per default
- add requires dnssec-conf, fire away libbind, it is now separate package - fixed some read buffer overflows (upstream)
- include iterated_hash.h, rebuild for dependencies, rebuild against new openssl-9.6.0-P1 release (CVE-2009-0025), 2009
- 9.6.0 release- 9.6.0rc2 release
- bind-96-rh475120.patch merged, add patch for dynamic loading of database backends, allow to reuse address for non-random query-source ports (#475120), 9.6.0rc1 release
- patches merged
  - bind-9.2.0rc3-varrun.patch
  - bind-95-sdlz-include.patch
  - bind-96-libxml2.patch
- fixed rare use-after-free problem in host utility (#452060)
- enabled chase of DNSSEC signature chains in dig, improved sample config file (#473586), reverted previous change, koji doesn’t like it- build bind-chroot as noarch, updates due libtool 2.2.6
- don’t pass -DLDAP_DEPRECATED to cpp, handle it directly in sources, make statistics http server working, patch backported from 9.6 HEAD-9.6.0b1 release
- don’t build ODBC and Berkeley DB DLZ drivers
- end of bind-chroot-admin script, copy config files to chroot manually
- /proc doesn’t have to be mounted to chroot
- temporary use libbind from 9.5 series, noone has been released for 9.6 yet- dig/host: use only IPv4 addresses when -4 option is specified (#469440), removed unneeded bind-9.4.1-ldap-api.patch, ship dns/[s]dlz.h and isc/radix.h in bind-devel, removed bind-9.4.0-dnssec-directory.patch, it is wrong-9.5.1b2 release
- patches merged
  - bind95-rh45783.patch
  - bind-9.5-3.1.patch
  - bind95-rh450995.patch
- bind95-rh457175.patch, IDN output strings didn’t honour locale settings (#461409), disable transfer stats on DLZ zones (#454783), add forgotten patch for #457175
- build with -O2, static libraries are no longer supported
- IP acls weren’t merged correctly (#457175)
- use sPile on sparcv9/sparc64 (Dennis Gilmore)
- add sparc64 to list of 64bit arches in spec (Dennis Gilmore), updated patches due new rpm (--fuzz=0 patch parameter), use %patch0 for Patch0 (#455061)
- correct source address (#455118), 9.5.1b1 release (CVE-2008-1447)
- dropped bind-9.5-recv-race.patch because upstream doesn’t want it, update default named.conf statements (#452708), some compat changes to fix building on RHEL4, fixed typo in %posttrans script, parse inner acls correctly (#450995), removed dns-keygen utility in favour of rndc-confgen -a (#449287)
- some minor sample fixes (#449274), updated to 9.5.0 final
- use getifaddrs to find available interfaces, make /var/run/named writable by named (#448277)
- fixed one non-utf8 file, fixes needed to pass package review (#225614), bind-chroot now depends on bind (#446477), updated to 9.5.0.rc1
- merged patches
  - bind-9.5-libcap.patch
- make binaries readable by others (#427826), reverted “any” patch, upstream says not needed
- log EDNS failure only when we really switch to plain EDNS (#275091)
- detect configuration file better, addresses 0.0.0.0 and ::0 really match any (#275091, comment #28), readded bind-9.5-libcap.patch
- added bind-9.5-recev-race.patch from F8 branch (#400461)- build Berkeley DB DLZ backend- 9.5.0b3 release
- dropped patches (upstream)
- bind-9.5-transfer-segv.patch
- bind-9.5-mudflap.patch
- bind-9.5.0-generate-xml.patch
- bind-9.5-libcap.patch- fixed named.conf.sample file (#437569)- fixed URLs- BuildRequires cleanup- rebuild without mudflap (#434159)- port named to use libcap library, enable threads (#433102)
- removed some unneeded Requires- removed conditional build with libefence (use -fmudflapth instead)
- fixed building of DLZ stuff (#432497)
- do not build Berkeley DB DLZ backend
- temporary build with --disable-linux-caps and without threads (#433102)
- update named.ca file to affect IPv6 changes in root zone- build with -D_GNU_SOURCE (#431734)
- improved fix for #253537, posttrans script is now used
- improved fix for #400461
- 9.5.0b2
- bind-9.3.2b1-PIE.patch replaced by bind-9.5-PIE.patch
- only named, named-sdb and lwresd are PIE
- bind-9.5-sdb.patch has been updated
- bind-9.5-libidn.patch has been updated
- bind-9.4.0-sdb-sqlite-bld.patch replaced by bind-9.5-sdb-sqlite-bld.patch
- removed bind-9.5-gssapi-header.patch (upstream)
- removed bind-9.5-CVE-2008-0122.patch (upstream)
- removed bind-9.2.2-nsl.patch
- improved sdb_tools Makefile.in- fixed segfault during sending notifies (#400461)
- rebuild with gcc 4.3 series- removed bind-9.3.2-prctl_set_dumpable.patch (upstream)
- allow parallel building of libdns library
- CVE-2008-0122- fixed initscript wait loop (#426382)
- removed dependency on policycoreutils and libselinux (#426515)- fixed regression caused by libidn2 patch (#426348)- fixed typo in post section (CVE-2007-6283)- removed obsoleted triggers
- CVE-2007-6283- added dst/gssapi.h to -devel subpackage (#419091)
- improved fix for (#417431)- fixed shutdown with initscript when rndc doesn't work (#417431)
- fixed IDN patch (#412241)- 9.5.0b1 (#405281, #392491)- Rebuild for deps- build with -O0- bind-9.5-random_ports.patch was removed because upstream doesn't like it. query-source{,v6} options are sufficient (#391931)
- bind-chroot-admin called restorecon on /proc filesystem (#405281)- removed edns patch to keep compatibility with vanilla bind
- #275091, comment #20)- use system port selector instead ISC's (#391931)- removed statement from initscript which passes -D to named- 9.5.0a7
- dropped patches (upstream)
- bind-9.5-update.patch
- bind-9.5-pool_badfree.patch
- bind-9.5-_res_errno.patch- added bind-sdb again, contains SDB modules and DLZ modules
- bind-9.3.1rc1-sdb.patch replaced by bind-9.5-sdb.patch- removed Requires: openldap, postgresql, mysql, db4, unixODBC
- new L.ROOT-SERVERS.NET address- completely disable DBUS- minor cleanup in bind-chroot-admin- fixed typo in initscript- disabled DBUS (dhcdbd doesn't exist & #339191)- fixed missing va_end () functions (#336601)
- fixed memory leak when dbus initialization fails- corrected named.5 SDB statement (#326051)- added edns patch again (#275091)- removed bind-9.3.3-edns.patch.patch (see #275091 for reasons)- build with O2
- removed "autotools" patch
- bugfixing in bind-chroot-admin (#279901)- bind-9.5-2119_revert.patch and bind-9.5-fix_h_errno.patch are obsoleted by upstream bind-9.5-_res_errno.patch- fixed wrong resolver's dispatch pool cleanup (#275011, patch from tmraz redhat com)- initscript failure message is now printed correctly (#277981, Quentin Armitage (quentin armitage org uk) - temporary revert ISC 2119 change and add "libbind-errno" patch (#254501) again- removed end dots from Summary sections (skasal@redhat.com)
- fixed wrong file creation by autotools patch (skasal@redhat.com)- start using --disable-isc-spnego configure option
- - remove bind-9.5-spnego-memory_management.patch (source isn't compiled)- added new inisctipt option KEYTAB_FILE which specified where is located kerberos .keytab file for named service
- obsolete temporary bind-9.5-spnego-memory_management.patch by bind-9.5-gssapictx-free.patch which conforms BIND coding standards (#251853)- dropped direct dependency to /etc/openldap/schema directory
- changed hardcoded paths to macros
- fired away code which configure LDAP server- named could crash with SRV record UPDATE (#251336)- disable 64bit dlz driver patch on alpha and ia64 (#251298)
- remove wrong malloc functions from lib/dns/spnego.c (#251853)- changed licence from BSD-like to ISC- disabled named on all runlevels by default- minor next improvements on autotools patch
- dig and host utilities now using libidn instead idnkit for IDN support- binutils/gcc bug rebuild (#249435)- updated to 9.5.0a6 which contains fixes for CVE-2007-2925 and CVE-2007-2926
- fixed building on 64bits- integrated "autotools" patch for testing purposes (upstream will accept it in future, for easier building)- fixed DLZ drivers building on 64bit systems- fixed relation between logrotated and chroot-ed named- removed bind-sdb package (default named has compiled SDB backend now)
- integrated DLZ (Dynamically loadable zones) drivers
- integrated GSS-TSIG support (RFC 3645)
- build with -O0 (many new features, potential core dumps will be more useful)- inisctipt should be ready for parallel booting (#246878)- handle integer overflow in isc_time_secondsastimet function gracefully (#247856)- moved chroot configfiles into chroot subpackage (#248306)- minor changes in default configuration
- fix h_errno assignment during resolver initialization (unbounded recursion, #245857)
- removed wrong patch to #150288- updated to latest upstream- marked caching-nameserver as obsolete (#244604)
- fixed typo in inisctipt (causes that named doesn't detect NetworkManager correctly)
- next cleanup in configuration - moved configfiles into config.tar
- removed delay between start & stop in restart function in named.init- major changes in inisctipt. Could be LSB compatible now
- removed caching-nameserver subpackage. Move configs from this package to main bind package as default configuration and major configuration cleanup- very minor compatibility change in bind-chroot-admin (line 215)
- enabled IDN support by default and don't distribute IDN libraries
- specfile cleanup
- add dynamic directory to /var/named. This directory will be primarily used for dynamic DNS zones. ENABLE_ZONE_WRITE and SELinux's named_write_master_zones no longer exist- removed ldap-api patch and start using deprecated API
- fixed minor problem in bind-chroot-admin script (#241103)- fixed bind-chroot-admin dynamic DNS handling (#239149)
- updated zone-freeze patch to latest upstream
- ldap sdb has been rewritten to latest api (#239802)- test build on new build system- updated to 9.4.1 which contains
fix to CVE-2007-2241- improved "zone freeze patch" - if multiple zone with same name exists
no zone is freezed
- minor cleanup in caching-nameserver's config file
- fixed race-condition in dbus code (#235809)
- added forgotten restorecon statement in bind-chroot-admin- removed DEBIDEINFO option because with this
option (default) was bind
   built with -O0 and without this flag no debuginfo package was produced.
   (I want faster bind =\to -O2 + debuginfo)
- fixed zone finding (#236426)- added idn support (still under development with upstream, disabled by default)-
dnssec-signzone utility now doesn't ignore -d parameter- removed query-source[-v6] options from caching-
nameserver confi
 (#209954, increase security)
- throw away idn. It won't be ready in fc7- prepared bind to merge review
- added experimental idn support to bind-utils utils (not enabled by default yet)
- change chroot policy in caching-nameserver post section
- fixed bug in bind-chroot-admin - rootdir function is called properly now- added experimental SQLite support
   (written by John Boyd <jaboydjr@netwalk.com>)
- moved bind-chroot-admin script to chroot package
- bind-9.3.2-redhat_doc.patch is always applied (#231738)- updated to 9.4.0
- bind-chroot-admin now sets EAs correctly (#213926)
- throw away next_server_on_referral and no_servfail_stops patches (fixed in 9.4.0)- minor cleanup in bind-chroot-
admin script- fixed broken bind-chroot-admin script (#227995)- bind-chroot-admin now uses correct chroot path
(#227600)- fixed conflict between bind-sdb and ldap
- removed duplicated bind directory in bind-libs- fixed building without libbind
- fixed post section (selinux commands is now in if-endif statement)
- prever macro has been removed from version- redirected output from bind-chroot prep and %preun stages to
/dev/null- updated to version 9.3.4 which contains security bugfixes- package bind-libbind-devel has been marked as
obsolete- package bind-libbind-devel has been removed (libs has been moved to bind-devel & bind-libs)
- Resolves: #214208- fixed a multi-lib issue
- Resolves: rbhz#222717- added namedGetForwarders written in shell (#176100),
created by Baris Cicek <baris@nerd.com.tr>- update to 9.3.3 final
- fix for #219069: file included twice in src.rpm- added back an interval to restart
- renamed package, it should meet the N-V-R criteria
- fix for #216185: bind-chroot-admin able to change root mode 750
- added fix from #215997: incorrect permissions on dnszone.schema
- added a notice to init script when /etc/named.conf doesn't exist (#216075)- fix for #200465: named-checkzone and
cannot be run as non-root user
- fix for #212348: chroot'd named causes df permission denied error
- fix for #211249, #211083 - problems with stopping named
- fix for #212549: init script does not unmount /proc filesystem
- fix for #211282: EDNS is globally enabled, crashing CheckPoint FW-1, added edns-enable options to named configuration file which can suppress
EDNS in queries to DNS servers (see /usr/share/doc/bind-9.3.3/misc/options)
- fix for #212961: bind-chroot doesn't clean up its mess on %preun
- update to 9.3.3rc3, removed already merged patches- fix for #209359: bind-libs from compatlayer CD will not
install on ia64- added fix for #210096: warning: group named does not exist - using root- added fix from #209400 -
Bind Init Script does not create
the PID file always, created by Jeff Means
- added timeout to stop section of init script.
The default is 100 sec. and can be adjusted by NAMED_SHUTDOWN_TIMEOUT
shell variable. - removed chcon from %post script, replaced by restorecon
(Bug 202547, comment no. 37)- updated to the latest upstream (9.3.3rc2)- added upstream patch for correct SIG
handling - CVE-2006-4095- suppressed messages from bind-chroot-admin
- cleared notes about bind-config- added fix for #203522 - "bind-chroot-admin -e" command fails- fix for #203194 -
tmpfile usage- fix for #202542 - /usr/sbin/bind-chroot-admin: No such file or directory
- fix for #202547 - file_contexts: invalid context- added Provides: bind-config- fix bug 197493: renaming
subpackage bind-config to caching-nameserver- fix bug 199876: make "%exclude libbind.*" conditional on
%{LIBBIND} - fix #195881, perms are not packaged correctly- fix addenda to bug 189789:
determination of selinux enabled was still not 100% correct in bind-chroot-admin
- fix addenda to bug 196398:
  make named.init test for NetworkManager being enabled AFTER testing for -D absence;
  named.init now supports a 'DISABLE_NAMED_DBUS' /etc/sysconfig/named setting to disable
auto-enable of named dbus support if NetworkManager enabled.- fix bug 196398 - Enable -D option automatically
in initscript
  if NetworkManager enabled in any runlevel.
- fix namedGetForwarders for new dbus
- fix bug 195881 - libbind.so should be owned by bind-libbind-devel- Rebuild against new dbus- rebuild with fixed
glibc-kernheaders- rebuild- fix bugs 191093, 189789
- backport selected fixes from upstream bind9 v9_3_3b1' CVS version:
  ( see http://www.isc.org/sw/bind9.3.php "Fixes":)
  o change 2024 / bug 16027:
    named emitted spurious "zone serial unchanged" messages on reload
  o change 2013 / bug 15941:
    handle unexpected TSIGs on unsigned AXFR/IXFR responses more gracefully
  o change 2009 / bug 15808: coverage fixes
  o change 1997 / bug 15818:
    named was failing to replace negative cache entries when a positive one
    for the type was learnt
  o change 1994 / bug 15694: OpenSSL 0.9.8 support
  o change 1991 / bug 15813:
    The configuration data, once read, should be treated as readonly.
  o misc. validator fixes
  o misc. resolver fixes
  o misc. dns fixes
  o misc. isc fixes
  o misc. libbind fixes
  o misc. isccfg fix
  o misc. lwres fix
  o misc. named fixes
  o misc. dig fixes
  o misc. nscupdate fix
  o misc. tests fixes- and actually put the devel symlinks in the right subpackage- rebuild for -devel deps- apply
upstream patch for ncache_adderesset segfault bug 173961 addenda
- fix bug 188382: rpm --verify permissions inconsistencies
- fix bug 189186: use /sbin/service instead of initscript
- rebuild for new gcc, glibc-kernheaders- fix resolver.c ncache_adderresult segfault reported in addenda to bug 173961
  (upstream bugs #15642, #15528 ?)
- allow named ability to generate core dumps after setuid (upstream bug #15753)- fix bug 187529: make bind-chroot-admin deal with subdirectories properly- fix bug 187286:
  prevent host(1) printing duplicate 'is an alias for' messages
  for the default AAAA and MX lookups as well as for the A lookup
  (it now uses the CNAME returned for the A lookup for the AAAA and MX lookups).
  This is upstream bug #15702 fixed in the unreleased bind-9.3.3
- fix bug 187333: fix SOURCE24 and SOURCE25 transposition- fix bug 186577: remove -L/usr/lib from libbind.pc
- add '%doc' sample configuration files in /usr/share/doc/bind*/sample
- rebuild with new gcc and glibc- fix typo in initscript
- fix Requires(post): policycoreutils in sub-packages- fix bug 185969: more .spec file cleanup- Do not allow package to be installed if named:25 userid creation fails
- Give libbind a pkg-config file
- remove restorecon from bind-chroot-admin (not required).
- fix named.caching-nameserver.conf (listen-on-v6 port 53 { ::1 };)- fix issues with bind-chroot-admin- replace caching-nameserver with bind-config sub-package
- fix bug 177595: handle case where $ROOTDIR is a link in initscript
- fix bug 177001: bind-config creates symlinks OK now
- fix bug 176388: named.conf is now never replaced by any RPM
- fix bug 176248: remove unnecessary creation of rpmsave links
- fix bug 174925: no replacement of named.conf
- fix bug 173963: existing named.conf never modified
- allow dbus builds to work with dbus version < 0.6 (bz #179816)- try supporting without dbus support- Rebuild for
  namedGetForwarders !- rebuilt- Upgrade to upstream version 9.3.2rc1
- fix namedSetForwarders -> namedGetForwarders SOURCE14 typo- rebuild for new dbus 0.6 dependency; remove use of
  DBUS_NAME_FLAG_PROHIBIT_REPLACEMENT- allow D-BUS support to work in bind-chroot environment: workaround latest selinux policy by mounting /var/run/dbus/
  under chroot instead of /var/run/dbus/system-bus-socket- fix bug 172632 - remove .la files
- ship namedGetForwarders and namedSetForwarders scripts
- fix detection of -D option in chroot- rebuilt with new openssl- Allow the -D enable D-BUS option to be used
  within bind-chroot .
- fix bug 171226: supply some documentation for pgsql SDB .- fix bug 169969: do NOT call dbus_svc_dispatch() in
dbus_mgr_init_dbus() -
  task->state != task_ready and will cause Abort in task.c if process
  is waiting for NameOwnerChanged to do a SetForwarders- Fix reconnecting to dbus-daemon after it stops &
  restarts .- When forwarder nameservers are changed with D-BUS, flush the cache.- fix bug 168302: use %{__cc} for
  compiling dns-keygen
- fix bug 167682: bind-chroot directory permissions
- fix issues with -D dbus option when dbus service not running or disabled- fix bug 167062: named should be started
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after syslogd by default- fix bug 166227: host: don't do default AAAA and MX lookups with '-t a' option- Build with D-BUS patch by default; D-BUS support enabled with named -D option
- Enable D-BUS for named_sdb also
- fix sdb pgsql's zonetodb.c: must use ise_hash_create() before dns_db_create()
- update fix for bug 160914 : test for RD=1 and ARCOUNT=0 also before trying next server
- fix named.init script to handle named_sdb properly
- fix named.init script checkconfig() to handle named '-c' option
and make configtest, test, check configcheck synonyms- fix named.init script bugs 163598, 163409,
151852(addendum)- fix bug 160914: resolver utilities should try next server on empty referral

    (now that glibc bug 162625 is fixed)
    host and nslookup now by default try next server on SERVFAIL
    (host now has '-s' option to disable, and nslookup given
    'nofail' option similar to dig's [no]fail option).
- rebuild and re-test with new glibc & gcc (all tests passed).- fix bug 157950: dig / host / nslookup should reject invalid resolv.conf
    files and not use uninitialized garbage nameserver values
    (ISC bug 14841 raised).- Fix SDB LDAP- Fix bug 157601: give named.init a configtest function
- Fix bug 156797: named.init should check SELinux booleans.local before booleans
- Fix bug 154335: if no controls in named.conf, stop named with -TERM sig, not rndc
- Fix bug 155848: add NOTES section to named.8 man-page with info on all Red Hat
    BIND quirks and SELinux DDNS / slave zone file configuration
- D-BUS patches NOT applied until dhcdbd is in FC- Enhancement to allow dynamic forwarder table management
and
- DHCP forwarder auto-configuration with D-BUS- Rebuild for bind-sdb libpq.so.3 dependency
- fix bug 150981: don't install libbind man-pages if no libbind
- fix bug 151852: mount proc on $ROOTDIR/proc to allow sysconf(...) to work and correct number of CPUs to be determined- Upgrade to ISC BIND 9.3.1 (final release) released today.- fix bug 150288: h_errno not being accessed/set correctly in libbind
- add libbind man-pages from bind-8.4.6- Rebuild with gcc4 / glibc-2.3.4.14- configure with --with-pic to get PIC libraries- fix bug 149183: don't use getifaddrs() .- Upgrade to 9.3.1rc1
- Add Simplified Database Backend (SDB) sub-package ( bind-sdb )
- add named_sdb - ldap + pgsql + dir database backend support with
- 'ENABLE_SDB' named.sysconfig option
- Add BIND resolver library & includes sub-package ( libbind-devel)
- fix bug 147824 / 147073 / 145664: ENABLE_ZONE_WRITE in named.init
- fix bug 146084 : shutup restorecon- Fix bug 143438: named.init will now make correct ownership of
    $ROOTDIR/var/named
- based on 'named_write_master_zones' SELinux boolean.
- Fix bug 143744: dig & nsupdate IPv6 timeout (dup of 140528)- Upgrade BIND to 9.3.0 in Rawhide / FC4 (bugs
    134529, 133654...).- Fix bugs 140528 and 141113:
- 2 second timeouts when IPv6 not configured and root nameserver's
- AAAA addresses are queried- Fix bug 136243: bind-chroot %post must run restorecon -R % {prefix}
- Fix bug 135175: named.init must return non-zero if named is not run
- Fix bug 134060: bind-chroot %post must use mktemp, not /tmp/named
- Fix bug 133423: bind-chroot %files entries should have been %dirs- BIND 9.2.4 (final release) released - source code actually
- identical to 9.2.4rc8, with only version number change.- Upgrade to upstream bind-9.2.4rc8 .
- Progress: Finally! Hooray! ISC bind now distributes:
- o named.conf(5) and nslookup(8) manpages
- "bind-manpages.bz2" source can now disappear
- (could this have something to do with ISC bug I raised about this?)
- o 'deprecation_msg' global has vanished
  - bind-9.2.3rc3-deprecation_msg_shut_up.diff.bz2 can disappear- Fix bug 106572/132385: copy /etc/localtime to
  chroot on start- Fix bug 132303: if ROOTDIR line was replaced after upgrade from
  - bind-chroot-9.2.2-21, restart named- Fix bug 131803: replace ROOTDIR line removed by broken
  - bind-chroot 9.2.2-21's '%postun'; added %triggerpostun for bind-chroot- Fix bugs 130121 & 130981 for RHEL-3-
  Fix bug 130121: add '%ghost' entries for files included in previous
  - bind-chroot & not in current - ie. named.conf, rndc.key, dev/* -
  - that RPM removed after upgrade - Fix bug 130981: add '-t' option to named-checkconf invocation in
  named.init if chroot installed.- Remove resolver(5) manpage now in man-pages (bug 130792);
  - Don't create /dev/ entries in bind-chroot if already there (bug 127556);
  - fix bind-devel Requires (bug 130919)
    - Set default location for dumpdb & stats files to /var/named/data- Fix devel Requires for bug 130738 & fix version-
      Fix errors on clean install if named group does not exist
      - (bug 130777)- Upgrade to bind-9.2.4rc7; applied initscript fix
      - for bug 102035.- Fixed bug 129289: bind-chroot install / deinstall
        - on install, existing config files 'safe_replace'd
        - with links to chroot copies; on uninstall, moved back.- Fixed bug 129258: "$[prefix]/var/tmp" typo in spec- Fixed
        bug 127124 : 'Requires: kernel > = 2.4'.
        - causes problems with Linux VServers- Fixed bug 127555 : chroot tar missing var/named/slaves- Upgraded to ISC
          version 9.2.4rc6- Fixed named.init generation of error messages on
          - 'service named stop' and 'service named reload'
        - as per bug 127775- Bump for rel3.0 U3- remove disable-linux-caps- Update RHEL3 to latest bind- rebuilt-
          Remove device files from chroot, Named uses the system one- Move RFC to devel package - Fix location of restorecon- Tighten security on config files. Should be owned by root- Update key patch to include conf-keygen-RIX chroot to only happen once.
        - fix init script to do kill instead of killall- Add fix for SELinux security context- rebuilt- run ldconfig for libs
          subrpm- Use ';' instead of '.' as separator for chown.- Add COPYRIGHT- rebuilt- Add defattr to libs- Break out
          library package- Fix condrestart- Move libisc and libdns to bind from bind-util- Move to 9.2.3.- Add PIE support-
          Add /var/named/slaves directory- do not link against libnsl, not needed for Linux- Fix local time in log file- Try
          again- Fix handling of chroot /dev/random- Stop hammering stuff on update of chroot environment- Fix chroot
          directory to grab all subdirectories- New patch to support for "delegation-only"- patch support for "delegation-only".-
          Update to build on RHL- Install libraries as exec so debug info will be pulled- Remove BSDCOMPAT (BZ 99454)-
          Update to build on RHL- Change protections on /var/named and /var/chroot/named- Update to build on RHEL-
          Update to build on RHEL- Fix config description of named.conf in chroot
          - Change named.init script to check for existence of /etc/sysconfig/network- Update to build on RHEL- Update to build
            on RHEL- Fix echo OK on starting/stopping service- Update to build on RHEL- Fix echo on startup- Fix
            problems with chroot environment
        - Eliminate posix threads- Fix build problems- Fix build on beehive- build bind-chroot kit- Change configure to use
          proper threads model- update to 9.2.2- update to 9.2.2- Put a sleep in restart to make sure stop completes- rebuilt-
          Separate /etc/rndc.key to separate file- Use openssl's pkgconfig data, if available, at build-time.- Fix log rotate to use
          service named reload
          - Change service named reload to give success/failure message [73770]
          - Fix File checking [75710]
          - Begin change to automatically run in CHROOT environment- Fix startup script to work like all others.- Fix
            configure to build on x86_64 platforms- fix #70583, doesn't build on IA64- bind-utils shouldn't require bind- fix
name of pidfine in logrotate script (#68842)
- fix owner of logfile in logrotate script (#41391)
- fix nslookup and named.conf man pages (output on stderr)
  (#63553, #63560, #63561, #54889, #57457)
- add rfc1912 (#50005)
- gzip all rfc's
- fix typo in keygen.c (#54870)
- added missing manpages (#64065)
- shutdown named properly with rndc stop (#62492)
- /sbin/nologin instead of /bin/false (#68607)
- move nsupdate to bind-utils (where the manpage already was) (#66209, #66381)
- don't kill initscript when rndc fails (reload) (#58750)- Fix #65975- automated rebuild- automated rebuild- Move
libisccc, libiscfg and liblwres from bind-utils to bind,
they're not required if you aren't running a nameserver.- update to 9.2.1 release- Merge 30+ bug fixes from 9.2.1rc1
code- Don't exit if /etc/named.conf doesn't exist if we're running
chroot (#60868)
- Revert Elliot's changes, we do require specific glibc/glibc-kernheaders
  versions or bug #58335 will be back. "It compiles, therefore it works"
  isn't always true.- Fix BuildRequires (we don't need specific glibc/glibc-kernheaders
  versions).
- Use _smp_mflags- rebuild, require recent autoconf, automate (#58335)- rebuild against new libssl- automated
  rebuild- 9.2.0- 9.2.0rc10- Fix up rndc.conf (#55574)- rc8
- Enforce --enable-threads- 9.2.0rc7
- Use rndc status for "service named status", it's supposed to actually
  work in 9.2.x.- 9.2.0rc5
- Fix rpm --rebuild with ancient libtool versions (#53938, #54257)- 9.2.0rc4- 9.2.0rc3
- remove ttl patch, I don't think we need this for 8.0.
- remove dig.1.bz2 from the bind8-manpages tar file, 9.2 has a new dig man page
- add lwres* man pages to -devel- Make sure /etc/rndc.conf isn't world-readable even after the
  %post script inserted a random key (#53009)- Add build dependencies (#49368)
- Make sure running service named start several times doesn't create
  useless processes (#47596)
- Work around the named parent process returning 0 even if the config
  file is broken (it's parsed later by the child processes) (#45484)- Don't use rndc status, it's not yet implemented
  (#48839)- update to 9.1.3 release- Fix up rndc configuration and improve security (#46586)- Sync with caching-
  nameserver-7.1-6- Update to rc2- Remove resolv.conf(5) man page, it's now in man-pages- Add named.conf man
  page from bind 8.x (outdated, but better than nothing.
- Rename the rndc key (#42895)
- Add dnssec* man pages- 9.1.3rc1
- s/Copyright/License/- 9.1.2 final. No changes between 9.1.2-0.rc1.1 and this one, except for
  the version number, though.- 9.1.2rc1- 9.1.1- Merge fixes from 9.1.1rc5- Work around bind 8 -> bind 9 migration
  problem when using buggy zone files:
  accept zones without a TTL, but spew out a big fat warning. (#31393)- Add fixes from rc4- rebuild in new
  environment- killall -HUP named if rndc reload fails (#30113)- Merge some fixes from 9.1.1rc3- Don't use the
  standard rndc key from the documentation, instead, create a random one
  at installation time (#26358)
- Make /etc/rndc.conf readable by user named only, it contains secret keys- 9.1.1 probably won't be out in time,
  revert to 9.1.0 and apply fixes
from 9.1.1rc2
- bind requires bind-utils (#28317)- Update to rc2, fixes 2 more bugs
- Fix build with glibc >= 2.2.1-7- Update to 9.1.1rc1; fixes 17 bugs (14 of them affecting us;
1 was fixed in a Red Hat patch already, 2 others are portability
improvements)- Remove initscripts 5.54 requirement (#26489)- Add named-checkconf, named-checkzone
(#25170)- use echo, not gprintf- Fix problems with $GENERATE
Patch from Daniel Roesen <droesen@entire-systems.com>
Bug #24890- 9.1.0 final- 9.1.0rc1
- i18nify init script
- bzip2 source to save space- Fix %post script- 9.1.0b3- Add named.conf man page from bind8 (#23503)- Make
/etc/rndc.conf and /etc/sysconfig/named no-replace
- Make devel require bind = %{version} rather than just bind- Fix init script for real- Fix init script when ROOTDIR
is not set- Add hooks for setting up named to run chroot (RFE #23246)
- Fix up requirements- 9.1.0b2- Move run files to /var/run/named/ - /var/run isn't writable
by the user we're running as. (Bug #20665)- Fix reverse lookups (#22272)
- Run ldconfig in %postutil- fixed logrotate script (wrong path to kill)
- include header files in -devel package
- bugzilla #22049, #19147, 21606- 9.1.0b1 (9.1.0 is in our timeframe and less buggy)- 9.0.1- Fix initscripts (Bug
#19956)
- Add sample rndc.conf (Bug #19956)
- Fix build with tar 1.13.18- Add some missing man pages (taken from bind8) (Bug #18794)- 9.0.0 final- rc5
- fix up nslookup- rc4- 9.0.0rc1- automatic rebuild- add "exit 0" for unistall case- add prereq init.d and cleanup
install section- fix the init script- make libbind.a and nslookup.help readable again by setting INSTALL_LIB to "".
- Fix up the initscript (Bug #13033)
- Fix build with current glibc (Bug #12755)
- /etc/rc.d/init.d -> /etc/init.d
- use %[_mandir] rather than /usr/share/man- fix conflict with man-pages
- remove compatibility chkconfig links
- initscript munging- modify logrotate setup to use PID file
- temporarily disable optimization by unset %RPM_OPT_FLAGS at build-time
- actually bump the release this time- FHS compliance- clean up restart patch- provide /var/named (fix for bugs
#9847, #10205)
- preserve args when restarted via ndc(8) (bug #10227)
- make resolv.conf(5) a link to resolver(5) (bug #10245)
- fix SYSTYPE bug in all makefiles
- move creation of named user from %post into %pre- Fix TTL (patch from ISC, Bug #9820)- fix typo in spec (it's
%post, without a leading blank) introduced in -6
- change SYSTYPE to linux- pick a standard < 100 uid/gid for named- Pass named a '-u named' parameter by
default, and add/remove user.- fix host mx bug (Bug #9021)- rebuild to fix dependencies
- man pages are compressed- It's /usr/bin/killall, not /usr/sbin/killall (Bug #8063)- Fix up location of named-
bootconf.pl and make it executable
(Bug #8028)
- bind-devel requires bind- update to 8.2.2-P5- update to 8.2.2-P3- add patch to stop a cache only server from
complaining about lame servers
on every request.- use real stop and start in named.init for restart, not ndc restart, it has
problems when named has changed during a package update... (# 4890)- chkconfig --del in %preun, not %postun-
initscript munging- fix installed chkconfig links to match init file- conflict with new (in man-1.24) man pages
(#3876,#3877).- fix named.logrotate (wrong %SOURCE)- update to 8.2.1.
- add named.logrotate (#3571).
- hack around egcs-1.1.2 -m486 bug (#3413, #3485).
- vet file list.- don't run by default- nslookup fixes (#2463).
- missing files (#3152).- nslookup patched:
  to count numRecords properly
  to fix subsequent calls to ls -d
  to parse "view" and "finger" commands properly
  the view hack updated for bind-8 (using sed)- add ISC patch
- add quick hack to make host not crash
- add more docs- add probing information in the init file to keep linuxconf happy
- dont strip libbind- auto rebuild in the new build environment (release 3)- removed 'done' output at named shutdown.- version 8.2- patch to use the _FDS_BITS macro
- build for glibc 2.1- change named.restart to /usr/sbin/nrcte restart- install man pages correctly.
- change K10named to K45named.- don't start if /etc/named.conf doesn't exist.- autmagically create /etc/named.conf from /etc/named.boot in %post
- remove echo in %post- merge in 5.1 mods- Several essential modifications to build and install correctly.
- Modified 'ndc' to avoid deprecated use of `-'.- Used builddroot
- patched bin/named/ns_udp.c to use <libell/nlist.h> for include
b2ujT(%wv)3z3E,"gq

!6{
0er0b/Z\{6})KpQsd---U3;
b25]LMY\c<TU80%5EBF"Rs
f#MWj&qmant*aEiK'&%w;
IMXek#Q'
9K_S[,]S]\{t6\'g#IDipKI(Q6u37k0a$a
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LYm1;\szx;0BZ\Z1_%g?8=FtAUK3T:!%w-%e AAv\D{:(0;2yCb@]\]%f;i(y.4MN)nXf_h-
3.32 bind-utils 9.9.4-51.el7_4.2

3.33 Bootstrap-datepicker 1.3.0

3.33.1 Available under license:

* bootstrap-datepicker.js
* Repo: https://github.com/eternicode/bootstrap-datepicker/
* Demo: http://eternicode.github.io/bootstrap-datepicker/
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3.34 bootstrap-datetimepicker 4.14.30

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```javascript
/*! version : 4.14.30
===============================================================================
bootstrap-datetimejs
https://github.com/Eonasdan/bootstrap-datetimepicker
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*/

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*/
```

3.35 bootstrap-fileinput.min 4.2.0

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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(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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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

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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
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The precise terms and conditions for copying, distribution and
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TERMS AND CONDITIONS

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To "modify" a work means to copy from or adapt all or part of the work
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To "propagate" a work means to do anything with it that, without
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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.

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

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

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
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Component, and (b) serves only to enable use of the work with that
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implementation is available to the public in source code form. A
"Major Component", 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.

The "Corresponding Source" for a work in object code form means all
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control those activities. However, it does not include the work's
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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,
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d) 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.

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customarily used for software interchange.

b) 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.

c) 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.

d) 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.

e) 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.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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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.

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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.

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

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==================
For Contributors
==================

If you would like to contribute to cliff directly, these instructions
should help you get started. Bug reports, and feature requests are
all welcome through the `Launchpad project`_.

.. _Launchpad project: https://launchpad.net/python-cliff

Changes to cliff should be submitted for review via the Gerrit tool,
following the workflow documented at
https://docs.openstack.org/infra/manual/developers.html#development-workflow

Pull requests submitted through GitHub will be ignored.

Bugs should be filed under the `Launchpad project`_.

.. note::

Before contributing new features to cliff core, please consider
whether they should be implemented as an extension instead. The
architecture is highly pluggable precisely to keep the core small.

Building Documentation

The documentation for cliff is written in reStructuredText and
converted to HTML using Sphinx. The build itself is driven by make.
You will need the following packages in order to build the docs:

- Sphinx
- docutils

Once all of the tools are installed into a virtualenv using
pip, run `make docs` to generate the HTML version of the
$$\text{make docs}$$
\begin{verbatim}
(cd docs && make clean html)
sphinx-build -b html -d build/doctrees source build/html
Running Sphinx v1.1.3
loading pickled environment... done
building [html]: targets for 1 source files that are out of date
updating environment: 1 added, 1 changed, 0 removed
reading sources... [100%] index
looking for now-outdated files... none found
pickling environment... done
done
preparing documents... done
writing output... [100%] index
writing additional files... genindex search
copying static files... done
dumping search index... done
dumping object inventory... done
build succeeded, 2 warnings.
\end{verbatim}

Build finished. The HTML pages are in build/html.

The output version of the documentation ends up in
``./docs/build/html`` inside your sandbox.

Running Tests
==============

The test suite for clif uses tox_, which must be installed separately
(``pip install tox``).

To run the tests under Python 2.7 and 3.3 as well as PyPy, run ``tox``
from the top level directory of the git repository.

To run tests under a single version of Python, specify the appropriate
environment when running tox::

\begin{verbatim}
$ tox -e py27
\end{verbatim}

Add new tests by modifying an existing file or creating new script in
the ``tests`` directory.

.. _tox: http://codespeak.net/tox

.. _developer-templates:
3.47 cmd2 0.6.8
3.47.1 Available under license:
OSI Approved :: MIT License

3.48 Collabnet/Tigris.org Subclipse 1.8.2
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3.63 commons-lang3 3.3.2

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3.71 corosync 2.4.3-2.el7_5.1

3.72 corosynclib 2.4.3-2.el7_5.1

3.73 cpp 4.8.5 :36.el7_6.2

3.73.1 Available under license :

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
}
}
result.append("</dl>");
return result.toString();
}
else {
return null;
}
}
}
}
/* Permission.java -- The superclass for all permission objects
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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement the concept of a permission. A permission consists of a permission name and optionally a list of actions that relate to the permission. The actual meaning of the name of the permission is defined only in the context of a subclass. It may name a resource to which access permissions are granted (for example, the name of a file) or it might represent something else entirely. Similarly, the action list only has meaning within the context of a subclass. Some permission names may have no
* actions associated with them. That is, you either have the permission
* or you don't.
*
* <p>The most important method in this class is <code>implies</code>. This
* checks whether if one has this permission, then the specified
* permission is also implied. As a conceptual example, consider the
* permissions "Read All Files" and "Read File foo". The permission
* "Read All Files" implies that the caller has permission to read the
* file foo.
*
* <p><code>Permission</code>’s must be immutable - do not change their
* state after creation.
*
* @author Aaron M. Renn (arenn@urbanophile.com)
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
*/

public abstract class Permission implements Guard, Serializable
{
/**
 * Compatible with JDK 1.1+.
 */
private static final long serialVersionUID = -563657022231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
or throws an exception if it fails.

* @param obj the <code>Object</code> being guarded - ignored by this class
* @throws SecurityException if the security check fails
* @see GuardedObject
* @see SecurityManager#checkPermission(Permission)
*/
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.  
 * @return the name
 */
public final String getName()
{
    return name;
/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * 
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 * 
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 * 
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }
    string = string.append(')');
    return string.toString();
}
string = string.append(')');
return string.toString();
} // class Permission
/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class
public interface Permission
{
    /**
     * This method tests whether or not a specified Permission (passed as an Object) is the same as this permission.
     *
     * @param perm The permission to check for equality
     *
     * @return true if the specified permission is the same as this one, false otherwise
     */
    boolean equals (Object perm);
}

String toString();

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* m4/ax_func_which_gethostbyname_r.m4

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That's all there is to it!
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.
Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.uts.oz.au) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)
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@c ispell-local-pdict: "ispell-dict"
@c End:

@c man end
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */
#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE,SIZE)  
fprintf (FILE, "\t.space HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
(fputs (".comm \", (FILE)),
 assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
(fputs (".lcomm \", (FILE)),
 assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
(fputs (".lcomm \", (FILE)),
 assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG) 
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))
/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where PREFIX is the class of label and NUM is the number within the class. This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) sprintf ((BUF), "%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3.1, 31 March 2009

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#!/usr/bin/python
#
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#
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# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#    update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0
class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'decomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'lttsugar.m4',
            'ltversion.m4',
            'lt-obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'yrlwrap',

            # Skip FSF mission statement, etc.
            'gnu.texi',
            'funding.texi',
            'appendix_free.xml',

            # Skip imported texinfo files.
            'texinfo.tex',
        '])
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'\t')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
        # Skip files produced by autogen
        if (os.path.exists(base + '.def')
            and os.path.exists(base + '.tpl')):
            return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True
    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True
    return False
def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9]*(?:\[-0-9.,\s]\s+and\s+)*[0-9]+'

        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w.,-]'

        # Matches one year.
        self.year_re = re.compile ('\[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|\[' + name + ']' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (r'\b(Copyright\s+)?Copyright\s+\([Cc]\)\b|
                                         \b(Copyright\s+\(\[Cc]\))\b|
                                         \b(Copyright\s+%s)\b|
                                         \b(Copyright\s+©)\b|
                                         \b(Copyright\s+©\copyright\{}\b|
                                         \b(@set\s+copyright[\w-]+)\b
                                         \b(\s*\(:\s+\)' + ranges + ',?\s*)\b
                                         \b(by\s+)?\b
                                         \b(by\s+)\b

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '\(\s*(:\s+)?+ranges + :\)\b
        '@value\[{[^{}]*}\]s*\b

        # 3: 'by ', if used
        '\(by\s+)\b

        # 4: the copyright holder. Don't allow multiple consecutive
        # spaces, so that right-margin gloss doesn't get caught
        # (e.g. gnat_ugn.texi).
        '\(\s*name + '(?:\s+\s*?) + name + \)'\s*\b

        # A regexp for notices that might have slipped by. Just matching
        # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
        # HTML header markers, so check for 'copyright' and two digits.
        self.other_copyright_re = re.compile ('\b(copyright\s+\[0-9]-[0-9])\b',
                                               re.IGNORECASE)

        self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year
    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)
    def year_range (self, years):
        year_list = [self.parse_year (year)
                     for year in self.year_re.findall (years)]
        assert len (year_list) > 0
        return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt
def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years

    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname,
                               'trailing characters in @set: ' + after_years)
return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete (match):
        try:
            next_line = file.next()
        except StopIteration:
            break

        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation (next_line)
        if not self.continuation_re.match (continuation):
            break

        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match (line, match.start())
        assert match

        holder = match.group (4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author (dir, filename):
            assert holder not in self.holders

        elif not holder:
            self.errors.report (pathname, 'missing copyright holder')
            return (False, orig_line, next_line)

        elif holder not in self.holders:
            self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
            return (False, orig_line, next_line)

        else:
            # See whether the copyright is associated with the package
            # author.
            canon_form = self.holders[holder]
            if not canon_form:
                return (False, orig_line, next_line)

            # Make sure the author is given in a consistent way.
            line = (line[:match.start (4)]
+ canon_form
+ line[match.end (4):])

# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ' ' + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None

# Leave filtered-out lines alone.
if not (line_filter and line_filter.match(line)):
    match = self.copyright_re.search(line)
if match:
    res = self.update_copyright(dir, filename, filter,
        file, line, match)
    (this_changed, line, next_line) = res
    changed = changed or this_changed

# Check for copyright lines that might have slipped by.
elif self.other_copyright_re.search(line):
    self.errors.report(pathname,
        'unrecognised copyright: %s'
        % line.strip())
    lines.append(line)
    line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok() :
    tmp_pathname = pathname + '.tmp'
    with open(tmp_pathname, 'w') as file:
        for line in lines:
            file.write(line)
        if self.use_quilt:
            subprocess.call(['quilt', 'add', pathname])
        os.rename(tmp_pathname, pathname)

def process_tree(self, tree, filter):
    for (dir, subdirs, filenames) in os.walk(tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange(len(subdirs) - 1, -1, -1):
            if filter.skip_dir(dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file(dir, filename):
                sys.stdout.write('Skipping %s
' % os.path.join(dir, filename))
            else:
                self.process_file(dir, filename, filter)

class CmdLine:
    def __init__(self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright(self.errors)
        self.dirs = []
        self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []

self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them',
    self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
    self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    Options:
' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('Directories:
')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
self.errors.report (None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
else:
    for chosen_dir in self.chosen_dirs:
        canon_dir = os.path.join (chosen_dir, '')
        count = 0
        for (dir, filter) in self.dirs:
            if (dir + os.sep).startswith (canon_dir):
                count += 1
                self.copyright.process_tree (dir, filter)
        if count == 0:
            self.errors.report (None, 'unrecognised directory: '
                                + chosen_dir)
        sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (['math-68881.h'])
        self.skip_dirs |= set ([]}
# Better not create a merge nightmare for the GNAT folks.
'ada',

# Handled separately.
'testsuite',
}

self.skip_extensions |= set([
    # Maintained by the translation project.
    '.po',

    # Automatically-generated.
    '.pot',
])

self.fossilised_files |= set({
    # Old news won't be updated.
    'ONEWS',
})

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set [
            # Imported from GLIBC.
            'soft-fp',
        ]

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set [
            # Handled separately.
            'testsuite',
            # Not really part of the library
            'contrib',
            # Imported from upstream
            'classpath',
            'libltdl',
        ]

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set [
            # Handled separately.
            'testsuite',
        ]
class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set ([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// (C) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)
        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)
        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libjava', LibJavaFilter())
self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'),
              TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()
@node Library Copying
@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License
@center Version 2.1, February 1999

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version number 2.1.]
@end display
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@enumerate
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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@end ifinfo
@page
@appendixsubsec How to Apply These Terms to Your New Libraries

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Ty Coon, President of Vice
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3.74 cryptography 2.1.4

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

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2. You may modify your copy or copies of the Library or any portion
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above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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c) You must cause the whole of the work to be licensed at no
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d) If a facility in the modified Library refers to a function or a
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the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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

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

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

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

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(which makes passes at compilers) written
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</pre>

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

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3.85 device-mapper 1.02.146

3.86 device-mapper-event 1.02.149 :10.el7_6.7

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3.87 device-mapper-libs 1.02.146

3.88 dhclient 4.2.5-68.el7.centos.1

3.89 dhcp-common 4.2.5-68.el7.centos.1

3.90 dhcp-libs 4.2.5-68.el7.centos.1

3.91 dhcp4java 1.0.0

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (see http://www.digicool.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit
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<td>PSF</td>
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<tr>
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<td>2002</td>
<td>PSF</td>
<td>yes</td>
</tr>
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3.93 dogpile.cache 0.6.4

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3.94 dracut-config-rescue 033-535.el7_5.1

3.95 dracut-network 033-535.el7_5.1

3.96 Drools 4.0.7

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3.97 dropwizard 0.9.2

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**3.105 ejbca 6.2.0**

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3.106 elfutils-default-yama-scope 0.17.0

3.107 elfutils-libelf 0.17.0

3.108 elfutils-libs 0.17.0

3.109 enum34 1.0.4

3.109.1 Available under license:

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3.110 Equinox SDK 3.8 :Juno

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3.113 facter 2.4.1-1 :el7

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- freetype-devel@nongnu.org
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3.120 funcsig 1.0.2

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

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

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

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/**
 * This interface provides information about a permission that can be
 * granted.  Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 *
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
public interface Permission {
  /**
   * This method tests whether or not a specified <code>Permission</code>
   * (passed as an <code>Object</code>) is the same as this permission.
   * 
   * @param perm The permission to check for equality
   * 
   * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
   */
  boolean equals (Object perm);

  /**
   * This method returns this <code>Permission</code> as a <code>String</code>.
   * 
   * @return A <code>String</code> representing this permission.
   */
  String toString();
}

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Directory native/fdlibm

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David Megginson, sax@megginson.com
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2000-05-05

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*m4/ax_func_which_gethostbyname_r.m4

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Jan 21, 2002

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That's all there is to it!
This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.
The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
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@c Local Variables:
c ispell-local-pdict: "ispell-dict"
c End:

@c man end
/* Definitions for BSD assembler syntax for Intel 386
 (actually AT&T syntax for insns and operands,
 adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix "."s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
  fprintf (FILE, "\t.space HOST_WIDE_INT_PRINT_UNSIGNED\"n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (".comm ", (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (".lcomm ", (FILE)),

assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u\n", (int)(ROUNDED))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
(fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line 
 that says to advance the location counter 
 to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)  
if ((LOG)!=0) fprintf ((FILE), 	.align %d\n", (LOG))

/* This is how to store into the string BUF 
 the symbol_ref name of an internal numbered label where 
 PREFIX is the class of label and NUM is the number within the class. 
 This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)  
sprintf ((BUF), "/%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3.1, 31 March 2009

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

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

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

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

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

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

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

@item
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.

@item
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.

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

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

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

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

@enumerate a
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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
@end enumerate
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Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
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@end enumerate

@ifex
@heading END OF TERMS AND CONDITIONS
@end ifex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

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Version 2.1, February 1999

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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

   a) The modified work must itself be a software library.

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

4. You may copy and distribute the Library (or a portion of 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.
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structure layouts and accessors, and small macros and small inline
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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,
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6. As an exception to the Sections above, you may also combine or
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b) Use a suitable shared library mechanism for linking with the
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
</tr>
</thead>
<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
</tbody>
</table>

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `\'s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */
#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \ 
fprintf (FILE, "\t.space \"HOST_WIDE_INT_PRINT_UNSIGNED\"\n", (SIZE))
/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
(fputs(".comm ", (FILE)),
assemble_name((FILE), (NAME)),
fprintf((FILE), ",%u
", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
(fputs(".lcomm ", (FILE)),
assemble_name((FILE), (NAME)),
fprintf((FILE), ",%u
", (int)(ROUNDED)))

#ifndef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUTAligned_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
(fputs(".lcomm ", (FILE)),
assemble_name((FILE), (NAME)),
fprintf((FILE), ",%u,%u
", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)\nif ((LOG)!=0) fprintf ((FILE), "\talign %d
", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\nsprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0
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@var{one line to give the program's name and a brief idea of what it does.}
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@end smallexample

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notice like this when it starts in an interactive mode:

@example
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
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use an `about box`.

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@end c man

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clarf.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.  
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to  
a Motorola 88K processor running CX/UX (Harris NightHawk).  
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to  
nonIBM development environments (a nontrivial task).  
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.  
David Chase, then at Olivetti Research, suggested several improvements.  
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the  
code to save and print call stacks for leak detection on a SPARC.  
Jesse Hull and John Ellis supplied the C++ interface code.  
Zhong Shao performed much of the experimentation that led to the  
current typed allocation facility.  (His dynamic type inference code hasn't  
made it into the released version of the collector, yet.)  

#!/usr/bin/python  
#  
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# any later version.  
#  
# This script adjusts the copyright notices at the top of source files  
# so that they have the form:  
#  
# Copyright XXXX-YYYY Free Software Foundation, Inc.  
#  
# It doesn't change code that is known to be maintained elsewhere or  
# that carries a non-FSF copyright.  
#  
# The script also doesn't change testsuite files, except those in  
# libstdc++-v3.  This is because libstdc++-v3 has a conformance testsuite,  
# while most tests in other directories are just things that failed at some  
# point in the past.  
#  
# Pass --this-year to the script if you want it to add the current year  
# to all applicable notices.  Pass --quilt if you are using quilt and  
# want files to be added to the quilt before being changed.  
#  
# By default the script will update all directories for which the  
# output has been vetted.  You can instead pass the names of individual  
# directories, including those that haven't been approved.  So:  
#  
# update-copyright.pl --this-year  
#  
# is the command that would be used at the beginning of a year to update  
# all copyright notices (and possibly at other times to check whether  
# new files have been added with old years).  On the other hand:
import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

def report(self, filename, string):
    if filename:
        string = filename + ': ' + string
    sys.stderr.write(string + '
')
    self.num_errors += 1

def ok(self):
    return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
        ''])
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('	')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
return True

# Skip files produced by autogen
if (os.path.exists (base + '.def')
    and os.path.exists (base + '.tpl')):
    return True

# Skip configure files produced by autoconf
if filename == 'configure':
    if os.path.exists (base + '.ac'):
        return True
    if os.path.exists (base + '.in'):
        return True

return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9](?:[-0-9,.\s]+and\s+)*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w.-]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (}
# 1: 'Copyright (C)', etc.
'([Cc]opyright'  
'

# 2: the years. Include the whitespace in the year, so that we can remove any excess.
'(\s*(?:' + ranges + '.?')  
'[@value\{(\^[\{}\]^\})s+]')

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive spaces, so that right-margin gloss doesn't get caught # (e.g. gnat_ugn.texi).
'(\s+name + (\?\s? + name + *)?)'

# A regexp for notices that might have slipped by. Just matching 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]', re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')

self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ', '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (')')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (')', index + 1)
def add_external_author(self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__(self, year):
        self.year = year

    def __str__(self):
        return 'unrecognised year: ' + self.year

def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
    elif len(string) == 4:
        return year
    raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years
    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)
def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname,
                               'trailing characters in @set:
                               ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break

        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation(next_line)
        if not self.continuation_re.match(continuation):
            break

        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None

        # Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match
holder = match.group (4)
# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
assert holder not in self.holders
elif not holder:
self.errors.report (pathname, 'missing copyright holder')
return (False, orig_line, next_line)
elif holder not in self.holders:
self.errors.report (pathname,
'unrecognised copyright holder: ' + holder)
return (False, orig_line, next_line)
else:
# See whether the copyright is associated with the package
# author.
canon_form = self.holders[holder]
if not canon_form:
return (False, orig_line, next_line)
# Make sure the author is given in a consistent way.
line = (line[:match.start (4)]
+ canon_form
+ line[match.end (4):])
# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]
# Update the copyright years.
years = match.group (2).strip()
try:
canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
self.errors.report (pathname, str (e))
return (False, orig_line, next_line)
line = (line[:match.start (2)]
+ ' ' + canon_form + self.separator
+ line[match.end (2):])
# Use the standard (C) form.
if intro.endswith ('right'):
intro += ' (C)'

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elif intro.endswith(('c')):
    intro = intro[:-3] + '(C)
line = line[:match.start(1)] + intro + line[match.end(1):]

    # Strip trailing whitespace
    line = line.rstrip() + '
'

    return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    with open(pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                    # Check for copyright lines that might have slipped by.
                    elif self.other_copyright_re.search(line):
                        self.errors.report(pathname,
                                           'unrecognised copyright: %s'
                                           % line.strip())
                        lines.append(line)
                        line = next_line

                # If something changed, write the new file out.
                if changed and self.errors.ok():
                    tmp_pathname = pathname + '.tmp'
                    with open(tmp_pathname, 'w') as file:
for line in lines:
    file.write (line)
if self.use_quilt:
    subprocess.call (['quilt', 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ("Skipping %s\n" % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                         self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                         self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...\n' % sys.argv[0])
        format = '%-15s %s
'

        if option:
            format = '%-15s %s\n'

        for (name, help) in self.option_help:
            sys.stdout.write (format % (name, help))

        sys.stdout.write ('\nOptions:
')

    def process_file (self, dir, filename, filter):
        # Do something with the file or filter it.

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for (what, help) in self.option_help:
    sys.stdout.write (format % (what, help))
sys.stdout.write ('nDirectories:n')

format = '%-25s'
i = 0
for (dir, filter) in self.dirs:
    i += 1
    if i % 3 == 0 or i == len (self.dirs):
        sys.stdout.write (dir + 'n')
    else:
        sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
                sys.exit (0 if self.errors.ok() else 1)

#---------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Not part of GCC
            'math-68881.h',
            )

        self.skip_dirs |= set (
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
            )

        self.skip_extensions |= set (
            # Maintained by the translation project.
            '.', 'po',

            # Automatically-generated.
            '.', 'pot',
            )

        self.fossilised_files |= set (
            # Old news won't be updated.
            'ONEWS',
            )

class TestsuiteFilter (GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_extensions |= set([
        # Don't change the tests, which could be woend by anyone.
        '.c',
        '.C',
        '.cc',
        '.h',
        '.hs',
        '.f',
        '.f90',
        '.go',
        '.inc',
        '.java',
    ])

def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
self.skip_dirs |= set(
    # Handled separately.
    'testsuite',

    # Not really part of the library
    'contrib',

    # Imported from upstream
    'classpath',
    'libltdl',
)

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(
            # Handled separately.
            'testsuite',
        )

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set(
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        )

        self.skip_dirs |= set(
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        )
def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation:', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
        self.add_external_author('Greg Colvin and Beman Dawes.')
        self.add_external_author('Hewlett-Packard Company')
        self.add_external_author('Information Technology Industry Council.')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author('National Research Council of Canada.')
        self.add_external_author('Peter Dimov and Multi Media Ltd.')
        self.add_external_author('Peter Dimov')
        self.add_external_author('Pipeline Associates, Inc.')
        self.add_external_author('Regents of the University of California.')
        self.add_external_author('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author('Silicon Graphics')
        self.add_external_author('Stephen L. Moshier')
        self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
        self.add_external_author('The Go Authors. All rights reserved.')
        self.add_external_author('The Go Authors.')
class GCCCmdLine (CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)
        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnatools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir (libgomp)
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir (libjava', LibJavaFilter())
        self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
        self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libobjc')
        self.add_dir ('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir ('libssp')
        self.add_dir (ldstdc++-v3', LibStdCxxFilter())
        self.add_dir ('lto-plugin')
        # zlib is imported from upstream.

        self.default_dirs = [
            'gcc',
            'libada',
            'libatomic',
            'libbacktrace',
            'libcpp',
            'libdecnumber',
            'libgcc',
            'libgfortran',
            'libgomp',
            'libiberty',
            'libitm',
            'libjava',
            'libquadmath',
            'libssp',
            'ldstdc++-v3',
            'lto-plugin',
            'zlib']
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sunavadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

}
}
public boolean inType() {
return true;
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
}
}
result.append("</dl>");
return result.toString();
}
else {
return null;
}
}
}
}

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/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission.  A permission consists of a permission name
 * and optionally a list of actions that relate to the permission.  The
 * actual meaning of the name of the permission is defined only in the
* context of a subclass. It may name a resource to which access permissions
* are granted (for example, the name of a file) or it might represent
* something else entirely. Similarly, the action list only has meaning
* within the context of a subclass. Some permission names may have no
* actions associated with them. That is, you either have the permission
* or you don't.
*
* <p>The most important method in this class is <code>implies</code>. This
* checks whether if one has this permission, then the specified
* permission is also implied. As a conceptual example, consider the
* permissions "Read All Files" and "Read File foo". The permission
* "Read All Files" implies that the caller has permission to read the
* file foo.
*<p><code>Permission</code>'s must be immutable - do not change their
* state after creation.
*<p>* @author Aaron M. Renn (arenn@urbanophile.com)
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
*/

public abstract class Permission implements Guard, Serializable
{
    /**
     * Compatible with JDK 1.1+.
     */
    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

    /**
     * Create an instance with the specified name.
     *
     * @param name the permission name
     */
    public Permission(String name)
    {
        this.name = name;
    }

    /**
     */
* This method implements the <code>Guard</code> interface for this class.
* It calls the <code>checkPermission</code> method in
* <code>SecurityManager</code> with this <code>Permission</code> as its
* argument. This method returns silently if the security check succeeds
* or throws an exception if it fails.
*
* @param obj the <code>Object</code> being guarded - ignored by this class
* @throws SecurityException if the security check fails
* @see GuardedObject
* @see SecurityManager#checkPermission(Permission)
*/
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
    {
        sm.checkPermission(this);
    }
}

/**
* This method tests whether this <code>Permission</code> implies that the
* specified <code>Permission</code> is also granted.
*
* @param perm the <code>Permission</code> to test against
* @return true if perm is implied by this
*/
public abstract boolean implies(Permission perm);

/**
* Check to see if this object equals obj. Use <code>implies</code>, rather
* than <code>equals</code>, when making access control decisions.
*
* @param obj the object to compare to
* /n
public abstract boolean equals(Object obj);

/**
* This method returns a hash code for this <code>Permission</code>. It
* must satisfy the contract of <code>Object.hashCode</code>: it must be
* the same for all objects that equals considers to be the same.
*
* @return a hash value
*/
public abstract int hashCode();

/**
* Get the name of this <code>Permission</code>.
*
* @return the name
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'' + getClass().getName() + '' + getName() + '' + getActions
 * + ')</code>.
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    return string.toString();
}
if (!(getActions().equals("")))
{
    string = string.append(' ');
    string = string.append(getActions());
}

string = string.append(')');
return string.toString();
}
} // class Permission

/** Permission.java -- Information about an ACL permission
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   this exception to your version of the library, but you are not
   obligated to do so.  If you do not wish to do so, delete this
   exception statement from your version. */

package java.security.acl;
/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * 
 * @version 0.0
 * 
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission
{

/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 * 
 * @param perm The permission to check for equality
 * 
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 * 
 * @return A <code>String</code> representing this permission.
 */
String toString();
}

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

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

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

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

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

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

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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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3.125 git 1.8.3.1-14.el7_5

3.126 glibc 2.17 :260.el7_6.5
3.126.1 Available under license:

commit ef7344f09c5ce00eb519ed14598b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
Date:   Sun Dec 22 14:49:48 2013 +0000

Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in
<https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html> and
<https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>, it seems
appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes
are: update paths in sysdeps/mach/hurd/Implies and
sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files, with the removal of syscalls that were in sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory by .c files there.

Tested x86_64. The installed shared libraries are identical before and after the patch except for libc.so where the move of wait3.c (included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from sysdeps/unix/bsd/bsd4.4/syscalls.list.
  (fchflags): Likewise.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/bsd4.4/Makefile: ... here.
* sysdeps/unix/bsd/bsd4.4/Versions: Move to ...
* sysdeps/unix/bsd/Versions: ... here.
* sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h: Move to ...
  * sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h: ... here.
* sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c: Move to ...
  * sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
  * sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
  * sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
  * sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
  * sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...
  * sysdeps/unix/bsd/tcsetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463cc34f3b7..d2d5234c1fd1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
#
# Hurd-based GNU systems.

-gnu
+unix/bsd

diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File nameCallerSyscall name# argsStrong nameWeak names
-
-chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
-sigaltstack-sigaltstack2__sigaltstacksigaltstack
-wait4-wait44__wait4wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmsg_nxthdr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c
diff --git a/sysdeps/unix/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c
diff --git a/sysdeps/unix/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
# File nameCallerSyscall name# argsStrong nameWeak names
+chflags-chflags2chflags
+fchflags-fchflags2fchflags
flock-flock2__flock2flock
getdents-getdirententries4__getdirententriesgetdirententries
getdtsz-getdtablesize0__getdtablesizegetdtablesize
getpagesize-getpagesize0__getpagesizegetpagesize
killpg-killpg2killpg
-sigblock-sigblock1__sigblocksigblock
+revoke-revoke1revoke
+setlogin-setlogin2setlogin
+sigaltstack-sigaltstack2__sigaltstacksigaltstack
sigpause-sigpause1__sigpausesigpause
-sigsetmask-sigsetmask1__sigsetmaskssigsetmask
sigstack-sigstack2sigstack
sigvec-sigvec3__sigvecssigvec
-wait3-wait33__wait3wait3
-waitpid-waitpid3__waitpidwaitpid
+wait4-wait44__wait4wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
rename to sysdeps/unix/bsd/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcsetattr.c b/sysdeps/unix/bsd/tcsetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcsetattr.c
rename to sysdeps/unix/bsd/tcsetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait.c
rename to sysdeps/unix/bsd/wait.c
diff --git a/sysdeps/unix/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
   similarity index 100%
rename from sysdeps/unix/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
   similarity index 100%
rename from sysdeps/unix/bsd4.4/waitpid.c
rename to sysdeps/unix/bsd/waitpid.c
diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
   index 0b3bdee771782b7b..2ff027f0e1d83eb2 100644
   --- a/sysdeps/unix/sysv/linux/wait3.c
   +++ b/sysdeps/unix/sysv/linux/wait3.c
@@ -1 +1 @@
-#include <sysdeps/unix/bsd4.4/wait3.c>
+#include <sysdeps/unix/bsd/wait3.c>

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Version 2, June 1991

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

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

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

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\begin{enumerate}
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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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Version 2, June 1991

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

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

That's all there is to it!
commit ef7344f09c5ce00eb519ed14598b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
Date:   Sun Dec 22 14:49:48 2013 +0000

Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in <https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html> and <https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>, it seems appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes are: update paths in sysdeps/mach/hurd/Implies and sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files, with the removal of syscalls that were in sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory by .c files there.

Tested x86_64. The installed shared libraries are identical before and after the patch except for libc.so where the move of wait3.c (included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from sysdeps/unix/bsd/bsd4.4/syscalls.list.
  (fchflags): Likewise.
  (revoke): Likewise.
  (setlogin): Likewise.
  (sigaltstack): Likewise.
  (wait4): Likewise.
  (sigblock): Remove.
(sigsetmask): Likewise.
(wait3): Likewise.
(waitpid): Likewise.
* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
* sysdeps/unix/sysv/linux/wait3.c: Update directory of included
  file.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/Makefile: ... here.
* sysdeps/unix/bsd/bsd4.4/Versions: Move to ...
* sysdeps/unix/bsd/Versions: ... here.
* sysdeps/unix/bsd/bsd4.4/bits/socket.h: Move to ...
* sysdeps/unix/bsd/bits/socket.h: ... here.
* sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c: Move to ...
* sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
* sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
* sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
* sysdeps/unix/bsd/sigvec.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
* sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
* sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...
* sysdeps/unix/bsd/tcsetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234c1fd1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
# Hurd-based GNU systems.
gnu
# The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd
diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
rename from sysdeps/unix/bsd/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/bsd4.4/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
  # File nameCallerSyscall name# argsStrong nameWeak names
-  -chflags-chflags2chflags
-  -fchflags-fchflags2fchflags
-  -revoke-revoke1revoke
-  -setlogin-setlogin2setlogin
-  -sigaltstack-sigaltstack2__sigaltstack__sigaltstack
-  -wait4-wait4wait4wait4

diff --git a/sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmsg_nxthdr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ /dev/null
@@ -1,14 +1,16 @@
  # File nameCallerSyscall name# argsStrong nameWeak names
+  +chflags-chflags2chflags
+  +fchflags-fchflags2fchflags
  flock-flock2__flock__flock
  getdents-getdirentse4__getdirentse4__getdirentse4__getdirentse4
getdtsz-getdtablesize0__getdtablesizegetdtablesize
getpagesize-getpagesize0__getpagesizegetpagesize
killpg-killpg2killpg
-sigblock-sigblock1__sigblocksigblock
+revoke-revoke1revoke
+setlogin-setlogin2setlogin
+sigaltstack-sigaltstack2__sigaltstacksigaltstack
sigpause-sigpause1__sigpausesigpause
-sigsetmask-sigsetmask1__sigsetmasksigsetmask
sigstack-sigstack2sigstack
sigvec-sigvec3__sigvecsigvec
-wait3-wait33__wait3wait3
-waitpid-waitpid3__waitpidwaitpid
+wait4-wait44__wait4wait4
diff --git a/sysdeps/unix/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/tcdrain.c
rename to sysdeps/unix/bsd/tcdrain.c
diff --git a/sysdeps/unix/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd4.4/tcsetattr.c b/sysdeps/unix/bsd/tcsetattr.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/tcsetattr.c
rename to sysdeps/unix/bsd/tcsetattr.c
diff --git a/sysdeps/unix/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/wait.c
rename to sysdeps/unix/bsd/wait.c
diff --git a/sysdeps/unix/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/waitpid.c
rename to sysdeps/unix/bsd/waitpid.c
diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
index 0b3bdee771782b7b..2ff027f0e1d83eb2 100644
--- a/sysdeps/unix/sysv/linux/wait3.c
+++ b/sysdeps/unix/sysv/linux/wait3.c
@@ -1 +1 @@
-#include <sysdeps/unix/bsd4.4/wait3.c>
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From 0b7fa3bd3d333a70d99d1a1b99c3e37d49fc66e3 Mon Sep 17 00:00:00 2001
From: Atin Mukherjee <amukherj@redhat.com>
Date: Mon, 12 Mar 2018 19:47:11 +0530
Subject: [PATCH 184/201] cli/glusterfsd: remove copyright information

There's no point of dumping upstream copyright information in --version.

Label: DOWNSTREAM ONLY

Change-Id: 13a10e30878698e1d53082936bbf22bca560a3896
BUG: 1550474
Signed-off-by: Atin Mukherjee <amukherj@redhat.com>
Reviewed-on: https://code.engineering.redhat.com/gerrit/132445
Tested-by: RHGS Build Bot <nigelb@redhat.com>
Reviewed-by: Milind Changire <mchangir@redhat.com>
---
cli/src/cli.c | 10 +---------
glusterfsd/src/glusterfsd.c | 10 +---------
2 files changed, 2 insertions(+), 18 deletions(-)
diff --git a/cli/src/cli.c b/cli/src/cli.c
index ce06366..52c1b67 100644
--- a/cli/src/cli.c
+++ b/cli/src/cli.c
@@ -66,15 +66,7 @@ extern int connected;
 /* using argp for command line parsing */

 const char *argp_program_version = ""
-  "PACKAGE_NAME" "PACKAGE_VERSION"
-  "Repository revision: " GLUSTERFS_REPOSITORY_REVISION "\n"
-  "Copyright (c) 2006-2016 Red Hat, Inc. "
-  "https://www.gluster.org/>
-  "GlusterFS comes with ABSOLUTELY NO WARRANTY.\n"
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-  "or later), or the GNU General Public License, version 2 (GPLv2),\n"
-  "in all cases as published by the Free Software Foundation."
+
 const char *argp_program_version = "PACKAGE_NAME" "PACKAGE_VERSION;

 static error_t parse_opts (int32_t key, char *arg, struct argp_state *_state);
 static struct rpc_clnt *global_quotad_rpc;
 static char *argp_program_bug_address = "<" PACKAGE_BUGREPORT ">");

 const char *argp_program_version = ""
-  "PACKAGE_NAME" "PACKAGE_VERSION"
-  "Repository revision: " GLUSTERFS_REPOSITORY_REVISION "\n"
-  "Copyright (c) 2006-2016 Red Hat, Inc. "
-  "https://www.gluster.org/>
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-  "in all cases as published by the Free Software Foundation."
+
 const char *argp_program_version = "PACKAGE_NAME" "PACKAGE_VERSION;

 static error_t parse_opts (int32_t key, char *arg, struct argp_state *_state);
 static struct rpc_clnt *global_quotad_rpc;
 static char *argp_program_bug_address = "<" PACKAGE_BUGREPORT ">");
Subject: [PATCH 313/325] dht: Inconsistent permission for directories after brick stop/start

Problem: Inconsistent access permissions on directories after bringing back the down sub-volumes, in case of directories dht_setattr first wind a call on MDS once call is finished on MDS then wind a call on NON-MDS. At the time of revalidating dht just compare the uid/gid with stbuf uid/gid and if anyone differs set a flag to heal the same.

Solution: Add a condition to compare permission also in dht_revalidate_cbk to set a flag to call dht_dir_attr_heal.

> BUG: 1584517
> Change-Id: I3e039607148005015b5d93364536158380d4c5aa
> fixes: bz#1584517
> (cherry picked from commit e57cbae0bce3d8649b869eda5ec20f3c6a6d34f0)
> (Reviewed on upstream link https://review.gluster.org/#/c/20108/)

BUG: 1582066
Change-Id: I985445521aeeddce52c0a56c20287e523aa3398b
Signed-off-by: Mohit Agrawal <moagrawa@redhat.com>
Reviewed-on: https://code.engineering.redhat.com/gerrit/143721
Tested-by: RHGS Build Bot <nigelb@redhat.com>
Reviewed-by: Sunil Kumar Heggodu Gopala Acharya <sheggodu@redhat.com>
---
tests/bugs/bug-1584517.t | 70 ++++++++++++++++++++++++++++++
xlators/cluster/dht/src/dht-common.c | 81 ++++++++++++++++++++++++++++++++----
xlators/cluster/dht/src/dht-common.h |  3 ++
xlators/cluster/dht/src/dht-selfheal.c |  2 +-4 files changed, 147 insertions(+), 9 deletions(-)
create mode 100644 tests/bugs/bug-1584517.t
diff --git a/tests/bugs/bug-1584517.t b/tests/bugs/bug-1584517.t
new file mode 100644
index 0000000..7f48015
--- /dev/null
+++ b/tests/bugs/bug-1584517.t
@@ -0,0 +1,70 @@
+#!/bin/bash
+. $(dirname $0)/../include.rc
+. $(dirname $0)/../volume.rc
+. $(dirname $0)/../dht.rc
+cleanup;
+##This test case verifies attributes (uid/gid/perm) for the
+##directory are healed after stop/start brick. To verify the same
+##test case change attributes of the directory after down a DHT subvolume
+##and one AFR children. After start the volume with force and run lookup
+##operation attributes should be healed on started bricks at the backend.
+TEST glusterd
+TEST pidof glusterd
+TEST $CLI volume create $V0 replica 3 $H0:$B0/${V0}{0,1,2,3,4,5}
+TEST $CLI volume start $V0
+TEST useradd dev -M
+TEST groupadd QA
+
+TEST glusterfs --volfile-id=$V0 --volfile-server=$H0 $M0;
+
+TEST mkdir $M0/dironedown
+
+TEST kill_brick $V0 $H0 $B0/${V0}2
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "5" online_brick_count
+
+TEST kill_brick $V0 $H0 $B0/${V0}3
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "4" online_brick_count
+
+TEST kill_brick $V0 $H0 $B0/${V0}4
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "3" online_brick_count
+
+TEST kill_brick $V0 $H0 $B0/${V0}5
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "2" online_brick_count
+
+TEST chown dev $M0/dironedown
+TEST chgrp QA $M0/dironedown
+TEST chmod 777 $M0/dironedown
+
+#store the permissions for comparision
+permission_onedown=`ls -l $M0 | grep dironedown | awk '{print $1}'`
+
+TEST $CLI volume start $V0 force
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "6" online_brick_count
+
+TEST glusterfs --volfile-id=$V0 --volfile-server=$H0 $M0;
+
+#Run lookup two times to hit revalidate code path in dht
+## to heal user attr
+
+TEST ls $M0/dironedown
+
+#check attributes those were created post brick going down
+TEST brick_perm=`ls -l $B0/${V0}3 | grep dironedown | awk '{print $1}'`
+TEST echo $brick_perm
+TEST [ $brick_perm = $permission_onedown ]
+uid=`ls -l $B0/${V0}3 | grep dironedown | awk '{print $3}'`
+TEST echo $uid
+TEST [ $uid = dev ]
+gid=`ls -l $B0/$V0` | grep dironedown | awk '{print $4}'`
+TEST echo $gid
+TEST [ $gid = QA ]
+
+TEST umount $M0
+userdel --force dev
+groupdel QA
+
+cleanup
+exit
+
+TEST 
+TEST echo $gid
+TEST [ $gid = QA ]
+
diff --git a/xlators/cluster/dht/src/dht-common.c b/xlators/cluster/dht/src/dht-common.c
index c6adce4..23049b6 100644
--- a/xlators/cluster/dht/src/dht-common.c
+++ b/xlators/cluster/dht/src/dht-common.c
@@ -1329,6 +1329,8 @@ dht_lookup_dir_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
 char          gfid_local[GF_UUID_BUF_SIZE] = {0};
 char          gfid_node[GF_UUID_BUF_SIZE]  = {0};
 int32_t       mds_xattr_val[1]                 = {0};
+        call_frame_t *copy                         = NULL;
+        dht_local_t  *copy_local                   = NULL;

 GF_VALIDATE_OR_GOTO ("dht", frame, out);
 GF_VALIDATE_OR_GOTO ("dht", this, out);
@@ -1401,6 +1403,23 @@ dht_lookup_dir_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
                 if (dict_get (xattr, conf->mds_xattr_key)) {
                        local->mds_subvol  = prev;
                        local->mds_stbuf.ia_gid = stbuf->ia_gid;
+                        local->mds_stbuf.ia_uid = stbuf->ia_uid;
+                        local->mds_stbuf.ia_prot = stbuf->ia_prot;
                        local->need_attrheal = 1;
                 }

 if (local->inode == NULL)
     local->inode = inode_ref (inode);
@@ -1496,6 +1515,43 @@ unlock:
          &local->postparent, 1);
 }

+                if (local->need_attrheal) {
+                        local->need_attrheal = 0;
+                        if (!__is_root_gfid (inode->gfid)) {
+                                gf_uuid_copy (local->gfid, local->mds_stbuf.ia_gfid);
+                                local->stbuf.ia_gid = local->mds_stbuf.ia_gid;
+                                local->stbuf.ia_uid = local->mds_stbuf.ia_uid;
+                                local->stbuf.ia_prot = local->mds_stbuf.ia_prot;
+                        }
+                        copy = create_frame (this, this->ctx->pool);
+                        if (copy) {
+                                copy_local = dht_local_init (copy, &local->loc,
+                                                    NULL, 0);
+                                if (!copy_local) {
+                                        DHT_STACK_DESTROY (copy);
+                                        goto skip_attr_heal;
+                                }
+                                copy_local->stbuf = local->stbuf;
+                                copy_local->mds_stbuf = local->mds_stbuf;
+                                copy_local->mds_subvol = local->mds_subvol;
+                                copy->local = copy_local;
+                                FRAME_SU_DO (copy, dht_local_t);
+                                ret = synctask_new (this->ctx->env,
+                                                    dht_dir_attr_heal,
+                                                    dht_dir_attr_heal_done,
+                                                    copy, copy);
+                                if (ret) {
+                                        gf_msg (this->name, GF_LOG_ERROR, ENOMEM,
+                                                        DHT_MSG_DIR_ATTR_HEAL_FAILED,
+                                                        "Synctask creation failed to heal attr "
+                                                        "for path %s gfid %s ",
+                                                        local->loc.path, local->gfid);
+                                }
+                        }
+                        DHT_STACK_DESTROY (copy);
+                }
+                DHT_STRIP_PHASE1_FLAGS (&local->stbuf);
+                dht_set_fixed_dir_stat (&local->postparent);
+                /* Delete mds xattr at the time of STACK UNWIND */
@@ -1516,7 +1572,7 @@ out:
return ret;
 }
int static

is_permission_different (ia_prot_t *prot1, ia_prot_t *prot2)
{
    if ((prot1->owner.read != prot2->owner.read) ||
@@ -1677,12 +1733,12 @@ dht_revalidate_cbk (call_frame_t *frame, void *cookie, xlator_t *this,

if ((local->stbuf.ia_gid != stbuf->ia_gid) ||
    (local->stbuf.ia_uid != stbuf->ia_uid))
-    (__is_root_gfid (stbuf->ia_gfid) &&
     is_permission_different (&local->stbuf.ia_prot,
-                           &stbuf->ia_prot))
+                           &stbuf->ia_prot))
    local->need_selfheal = 1;
}

if (!dict_get (xattr, conf->mds_xattr_key)) {
    gf_msg_debug (this->name, 0,
@@ -1828,10 +1884,9 @@ out:

local->need_selfheal = 0;
    if (!__is_root_gfid (inode->gfid)) {
        gf_uuid_copy (local->gfid, local->mds_stbuf.ia_gfid);
-        if (local->mds_stbuf.ia_gid || local->mds_stbuf.ia_uid) {
-            local->stbuf.ia_gid = local->mds_stbuf.ia_gid;
-            local->stbuf.ia_uid = local->mds_stbuf.ia_uid;
-        }
-        local->stbuf.ia_gid = local->mds_stbuf.ia_gid;
+        local->stbuf.ia_gid = local->mds_stbuf.ia_gid;
+        local->stbuf.ia_uid = local->mds_stbuf.ia_uid;
+        local->stbuf.ia_prot = local->mds_stbuf.ia_prot;
    } else {
        gf_uuid_copy (local->gfid, local->stbuf.ia_gfid);
        local->stbuf.ia_gid = local->prebuf.ia_gid;
@@ -1843,8 +1911,14 @@ out:

    if (copy) {
        copy_local = dht_local_init (copy, &local->loc,
@@ -1854,6 +1922,14 @@ out:

    if (!copy_local)
        DHT_STACK_DESTROY (copy);
    goto cont;
+    }
    copy_local->stbuf = local->stbuf;
    copy_local->mds_stbuf = local->mds_stbuf;
    copy_local->mds_subvol = local->mds_subvol;
@@ -1854,6 +1922,14 @@ out:
dht_dir_attr_heal,
    dht_dir_attr_heal_done,
    copy, copy);

if (ret) {
    gf_msg (this->name, GF_LOG_ERROR, ENOMEM,
        DHT_MSG_DIR_ATTR_HEAL_FAILED,
        "Synctask creation failed to heal attr ",
        local->loc.path, local->gfid);
    DHT_STACK_DESTROY (copy);
}
}
}
}
}
}
}

--- a/xlators/cluster/dht/src/dht-common.h
+++ b/xlators/cluster/dht/src/dht-common.h
@@ -298,6 +298,7 @@ struct dht_local {
    xlator_t                *mds_subvol; /* This is use for dir only */
    char                     need_selfheal;
    char                     need_xattr_heal;
+   char                     need_attrheal;
    int                      file_count;
    int                      dir_count;
    call_frame_t            *main_frame;
@@ -1491,4 +1492,6 @@ int
dht_selfheal_dir_setattr (call_frame_t *frame, loc_t *loc, struct iatt *stbuf,
                           int32_t valid, dht_layout_t *layout);

+int
+is_permission_different (ia_prot_t *prot1, ia_prot_t *prot2);
#endif/* _DHT_H */

diff --git a/xlators/cluster/dht/src/dht-selfheal.c b/xlators/cluster/dht/src/dht-selfheal.c
--- a/xlators/cluster/dht/src/dht-selfheal.c
+++ b/xlators/cluster/dht/src/dht-selfheal.c
@@ -2495,7 +2495,7 @@ dht_dir_attr_heal (void *data)
    NULL, NULL, NULL, NULL);
} else {
    ret = syncop_setattr (subvol, &local->loc, &local->mds_stbuf,
    -       (GF_SET_ATTR_UID | GF_SET_ATTR_GID),
    +       (GF_SET_ATTR_UID | GF_SET_ATTR_GID | GF_SET_ATTR_MODE),
            NULL, NULL, NULL, NULL);
}

--
1.8.3.1
3.130 Gmongo 0.5.1

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/*

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3.133 gnu-crypto 2.0.1

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3.134 gnupg2 2.0.22-5.el7_5

3.135 gnutls 3.3.29 :8.el7

3.136 gobject-introspection 1.56.1 :1.el7

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

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

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

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

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

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

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

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

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

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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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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.

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

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## go-diff - https://github.com/sergi/go-diff

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### cli.go - https://github.com/urfave/cli

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3.149 HdrHistogram 2.1.8
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```c
/* NCSA HTTPd Server
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 * National Center for Supercomputing Applications
 * University of Illinois at Urbana-Champaign
 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
 *
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 *
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   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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<body id="manual-page" class="no-sidebar"><div id="page-header">

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

Thanks to the following people for their input:
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* /
*
#endif _LINUX_DEVLINK_H_
#define _LINUX_DEVLINK_H_

#define DEVLINK_GENL_NAME "devlink"
#define DEVLINK_GENL_VERSION 0x1
#define DEVLINK_GENL_MCGRP_CONFIG_NAME "config"

enum devlink_command {
    /* don't change the order or add anything between, this is ABI! */
    DEVLINK_CMD_UNSPEC,

    DEVLINK_CMD_GET, /* can dump */
    DEVLINK_CMD_SET,
    DEVLINK_CMD_NEW,
    DEVLINK_CMD_DEL,

    DEVLINK_CMD_PORT_GET, /* can dump */
    DEVLINK_CMD_PORT_SET,
    DEVLINK_CMD_PORT_NEW,
    DEVLINK_CMD_PORT_DEL,

    DEVLINK_CMD_PORT_SPLIT,
    DEVLINK_CMD_PORT_UNSPLIT,

    DEVLINK_CMD_SB_GET, /* can dump */
    DEVLINK_CMD_SB_SET,
    DEVLINK_CMD_SB_NEW,
    DEVLINK_CMD_SB_DEL,

    DEVLINK_CMD_SB_POOL_GET, /* can dump */
    DEVLINK_CMD_SB_POOL_SET,
    DEVLINK_CMD_SB_POOL_NEW,
    DEVLINK_CMD_SB_POOL_DEL,

    DEVLINK_CMD_SB_PORT_POOL_GET, /* can dump */
    DEVLINK_CMD_SB_PORT_POOL_SET,
    DEVLINK_CMD_SB_PORT_POOL_NEW,
    DEVLINK_CMD_SB_PORT_POOL_DEL,
DEVLINK_CMD_SB_TC_POOL_BIND_GET, /* can dump */
DEVLINK_CMD_SB_TC_POOL_BIND_SET,
DEVLINK_CMD_SB_TC_POOL_BIND_NEW,
DEVLINK_CMD_SB_TC_POOL_BIND_DEL,

/* Shared buffer occupancy monitoring commands */
DEVLINK_CMD_SB_OCC_SNAPSHOT,
DEVLINK_CMD_SB_OCC_MAX_CLEAR,

DEVLINK_CMD_ESWITCH_GET,
#define DEVLINK_CMD_ESWITCH_MODE_GET /* obsolete, never use this! */ \ 
DEVLINK_CMD_ESWITCH_GET

DEVLINK_CMD_ESWITCH_SET,
#define DEVLINK_CMD_ESWITCH_MODE_SET /* obsolete, never use this! */ \ 
DEVLINK_CMD_ESWITCH_SET

/* add new commands above here */

__DEVLINK_CMD_MAX,
DEVLINK_CMD_MAX = __DEVLINK_CMD_MAX - 1
}

enum devlink_port_type {
DEVLINK_PORT_TYPE_NOTSET,
DEVLINK_PORT_TYPE_AUTO,
DEVLINK_PORT_TYPE_ETH,
DEVLINK_PORT_TYPE_IB,
};

enum devlink_sb_pool_type {
DEVLINK_SB_POOL_TYPE_INGRESS,
DEVLINK_SB_POOL_TYPE_EGRESS,
};

/* static threshold - limiting the maximum number of bytes.
* dynamic threshold - limiting the maximum number of bytes
* based on the currently available free space in the shared buffer pool.
* In this mode, the maximum quota is calculated based
* on the following formula:
* max_quota = alpha / (1 + alpha) * Free_Buffer
* While Free_Buffer is the amount of non-occupied buffer associated to
* the relevant pool.
* The value range which can be passed is 0-20 and serves
* for computation of alpha by following formula:
* alpha = 2 ^ (passed_value - 10)
*/
enum devlink_sb_threshold_type {
  DEVLINK_SB_THRESHOLD_TYPE_STATIC,
  DEVLINK_SB_THRESHOLD_TYPE_DYNAMIC,
};

#define DEVLINK_SB_THRESHOLD_TO_ALPHA_MAX 20

enum devlink_eswitch_mode {
  DEVLINK_ESWITCH_MODE_LEGACY,
  DEVLINK_ESWITCH_MODE_SWITCHDEV,
};

enum devlink_eswitch_inline_mode {
  DEVLINK_ESWITCH_INLINE_MODE_NONE,
  DEVLINK_ESWITCH_INLINE_MODE_LINK,
  DEVLINK_ESWITCH_INLINE_MODE_NETWORK,
  DEVLINK_ESWITCH_INLINE_MODE_TRANSPORT,
};

enum devlink_attr {
  /* don't change the order or add anything between, this is ABI! */
  DEVLINK_ATTR_UNSPEC,

  /* bus name + dev name together are a handle for devlink entity */
  DEVLINK_ATTR_BUS_NAME, /* string */
  DEVLINK_ATTR_DEV_NAME, /* string */

  DEVLINK_ATTR_PORT_INDEX, /* u32 */
  DEVLINK_ATTR_PORT_TYPE, /* u16 */
  DEVLINK_ATTR_PORT_DESIRED_TYPE, /* u16 */
  DEVLINK_ATTR_PORT_NETDEV_IFINDEX, /* u32 */
  DEVLINK_ATTR_PORT_NETDEV_NAME, /* string */
  DEVLINK_ATTR_PORT_IBDEV_NAME, /* string */
  DEVLINK_ATTR_PORT_SPLIT_COUNT, /* u32 */
  DEVLINK_ATTR_PORT_SPLIT_GROUP, /* u32 */
  DEVLINK_ATTR_SB_INDEX, /* u32 */
  DEVLINK_ATTR_SB_SIZE, /* u32 */
  DEVLINK_ATTR_SB_INGRESS_POOL_COUNT, /* u16 */
  DEVLINK_ATTR_SB_EGRESS_POOL_COUNT, /* u16 */
  DEVLINK_ATTR_SB_INGRESS_TC_COUNT, /* u16 */
  DEVLINK_ATTR_SB_EGRESS_TC_COUNT, /* u16 */
  DEVLINK_ATTR_SB_POOL_INDEX, /* u16 */
  DEVLINK_ATTR_SB_POOL_TYPE, /* u8 */
  DEVLINK_ATTR_SB_POOL_SIZE, /* u32 */
  DEVLINK_ATTR_SB_POOL_THRESHOLD_TYPE, /* u8 */
  DEVLINK_ATTR_SB_THRESHOLD, /* u32 */
  DEVLINK_ATTR_SB_TC_INDEX, /* u16 */
  DEVLINK_ATTR_SB_OCC_CUR, /* u32 */
}
DEVLINK_ATTR_SB_OCC_MAX /* u32 */
DEVLINK_ATTR_ESWITCH_MODE /* u16 */
DEVLINK_ATTR_ESWITCH_INLINE_MODE /* u8 */

/* add new attributes above here, update the policy in devlink.c */

__DEVLINK_ATTR_MAX,
DEVLINK_ATTR_MAX = __DEVLINK_ATTR_MAX - 1
};

#endif /* _LINUX_DEVLINK_H_ */

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3.167 iwl105-firmware 18.168.6.1-58.el7_4

3.168 iwl135-firmware 18.168.6.1-58.el7_4
3.169 iwl2000-firmware 18.168.6.1-58.el7_4
3.170 iwl2030-firmware 18.168.6.1-58.el7_4
3.171 iwl3160-firmware 22.0.7.0-58.el7_4
3.172 iwl3945-firmware 15.32.2.9-58.el7_4
3.173 iwl4965-firmware 228.61.2.24-58.el7_4
3.174 iwl5000-firmware 8.83.5.1_1-58.el7_4
3.175 iwl5150-firmware 8.24.2.2-58.el7_4
3.176 iwl6000-firmware 9.221.4.1-58.el7_4
3.177 iwl6000g2a-firmware 17.168.5.3-58.el7_4
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3.179 iwl6050-firmware 41.28.5.1-58.el7_4

3.180 iwl7260-firmware 22.0.7.0-58.el7_4

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3.187 Java SOAP API 1.3.0
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3.196 JCraft JSch 0.1.51
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3.197 jdcal 1.3

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3.204 jetty-http 9.4.8.v20171121

3.205 Jetty-Server 9.3.0.M2
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The primary ANTLR guy:

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

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/*
File: Core.js

Description:

Provides common utility functions and the Class object used internally by the library.

Also provides the <TreeUtil> object for manipulating JSON tree structures

Some of the Basic utility functions and the Class system are based in the MooTools Framework 
<http://mootools.net/license.txt>.

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Nicolas Garcia Belmonte

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their package names from 'it.unimi.dsi.fastutil' to 'clover.it.unimi.dsi.fastutil'. This was necessary to
avoid potential name conflicts during instrumentation of a code using the original library when using Clover.
No source code of the original library was modified.

--------------------------------------------------------------------------------

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3.215 jointjs 0.9.10

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3.216 JQuery 2.2.4

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3.218 JQuery-FileDownload 1.4.5

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3.219 jQuery-timepicker addon 1.6.0

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3.220 Jquery-ui-dist 1.12.1

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3.221 jquery.loader.js 1.0

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3.222 JRADIUS - Core 1.1.4 :1.1.4

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KNOWLEDGE AFTER THE MODIFICATION IS MADE AVAILABLE AS DESCRIBED IN
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Version 2, June 1991

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   a) The modified work must itself be a software library.

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

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

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

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

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

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

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

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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Ty Coon, President of Vice

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3.223 JRADIUS Client 1.1.4

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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a) The modified work must itself be a software library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at
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into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs
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3.237 jxls-2.3.0 2.3.0
3.238 jxlspoi-1.0.11 1.0.11

3.239 kafka_2.11-100 2.11-1.0.0

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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* M. Welsh, 6 July 1996
*
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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

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

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card
Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <smkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
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Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* 
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* 
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* Linux driver for the IDT77201 NICStar PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstart() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
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            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}

#endif

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QLogic Linux qlge NIC Driver

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver
Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

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

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
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Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

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Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...
Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

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for the support of the Fujitsu-Siemens Activy budget DVB-S

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for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

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Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

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

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver
Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc’s for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas ‘randy’ Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
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{
    return (strcmp(license, "GPL") == 0
        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
        || strcmp(license, "Dual MIT/GPL") == 0
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}
#endif

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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com) */
/* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) */
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* *
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* *
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* *
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* *
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation
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M. Welsh, 6 July 1996

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# Kdump configuration common methods

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#
import os
import re
__all__ = ['getReservedMemory', 'getTotalMemory', 'getMemoryBounds']

import blivet.arch

_reservedMemory = None
def getReservedMemory():
    """Return the amount of memory currently reserved for kdump in MB."""
    global _reservedMemory
    if _reservedMemory is not None:
return _reservedMemory

try:
    with open("/sys/kernel/kexec_crash_size", "r") as fobj:
        _reservedMemory = int(fobj.read()) / (1024*1024)
    return _reservedMemory
except (ValueError, IOError):
    return 0

def getTotalMemory():
    """Return the total amount of system memory in MB

   This is the amount reported by /proc/meminfo plus the amount
   currently reserved for kdump.
   """
    memkb = 0
    fd = open('/proc/meminfo').read()
    matched = re.search(r'^MemTotal: \s+\(\d+\)', fd)
    if matched:
        memkb = int(matched.groups()[0])

    # total_memory return memory in KB, convert to MB
    availMem = memkb / 1024

    return availMem + getReservedMemory()

def getMemoryBounds():
    """Return a tuple of (lower, upper, step) for kdump reservation limits.

   If there is not enough memory available to use kdump, both lower and
   upper will be 0.
   """
    totalMemory = getTotalMemory()
    arch = blivet.arch.getArch()

    if arch.startswith('ppc64\r\n\n        lowerBound = 384
        minUsable = 1024
        step = 1
    elif arch == 'aarch64':
        lowerBound = 512
        minUsable = 512
        step = 1
    else:
        lowerBound = 160
        minUsable = 512
        step = 1
upperBound = (totalMemory - minUsable) - (totalMemory % step)

if upperBound < lowerBound:
    upperBound = lowerBound = 0

return (lowerBound, upperBound, step)

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3.244 keystoneauth1 3.4.0

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3.245 keyutils_GPLv2 1.5.8 :3.el7

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/etc/kdb5_err.c
lib/gss_mechs/mech_spnego/mecgssapiP_spnego.h
lib/gss_mechs/mech_spnego/mecgspnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
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```c
lib/gssapi/generic/gssapi_err_generic.c

lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
```
and the initial implementation of incremental propagation, including the following new or changed files:

```python
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
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# and license statements in source code comments.

import os
import sys
import re

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

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

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.

def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    # This function checks the comments for violations of the coding standards related to copyright
    # and license statements.
text_seen = False
is_license = False
for line in comment:
    if not is_license and indicates_license(line):
        is_license = True
    if text_seen:
        warn(fname, ln, 'License begins after first line of comment')
    elif code_seen:
        warn(fname, ln, 'License after code')
    elif nonlicense_seen:
        warn(fname, ln, 'License after non-license comments')
    break
# DB2 licenses start with '/*- ' and we don't want to change them.
if line != '' and line != '-':
text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ ]*)( - .*)? */\* ', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r' /\*.*? /\* ', '', line)
        line = line.strip()
    elif in_comment and '/\* ' not in line:
        (line, sep, comment_part) = line.partition('/\* ')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '/\* ' not in line:
        comment.append(line.lstrip('')).lstrip()
for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]  
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
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lib/krb5/kadm5/kadm_host_srv_names.c

lib/krb5/kdb/kdb_convert.c

lib/krb5/kdb/kdb_hdr.h

lib/krb5/kdb/kdb_log.c

lib/libgss/g_accept_sec_context.c

lib/libgss/g_acquire_cred.c

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lib/libgss/g unseal.c

lib/libgss/g userok.c

lib/libgss/g utils.c

lib/libgss/g verify.c

lib/gssd_pname_to_uid.c

uts/common/gssapi/include/gssapi_err_generic.h

uts/common/gssapi/include/mechglueP.h

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  COLLAPSE_INDEX: false,
  FILE_SUFFIX: '.html',
  HAS_SOURCE: true
};
</script>
<script type="text/javascript" src="_static/jquery.js"></script>
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lib/gssapi/generic/gssapi_err_generic.c
lib/gssapi/mechglue/g_accept_sec_context.c
class="o"/></span><span class="n">mechglue</span><span class="o"></span><span class="n">g_acquire_cred</span><span class="o"></span><span class="n">gssapi</span><span class="o"></span><span class="n">g_canon_name</span><span class="o"></span><span class="n">g_compare_name</span><span class="o"></span><span class="n">g_context_time</span><span class="o"></span><span class="n">g_delete_sec_context</span><span class="o"></span><span class="n">g_dsp_name</span><span class="o"></span><span class="n">g_dsp_status</span><span class="o"></span><span class="n">g_dup_name</span><span class="o"></span><span class="n">g_exp_sec_context</span><span class="o"></span><span class="n">g_export_name</span><span class="o"></span><span class="n">g_glue</span><span class="o"></span><span class="n">g_imp_name</span><span class="o"></span><span class="n">g_imp_sec_context</span><span class="o"></span><span class="n">g_initialize</span><span class="o"></span><span class="n">g_inquire_context</span><span class="o"></span><span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span class="o"></span><span class="n">g_canon_name</span><span class="o"></span><span class="n">g_compare_name</span><span class="o"></span><span class="n">g_context_time</span><span class="o"></span><span class="n">g_delete_sec_context</span><span class="o"></span><span class="n">g_exp_sec_context</span><span class="o"></span><span class="n">g_export_name</span><span class="o"></span><span class="n">g_inquire_context</span>
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    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g_glue.c
    lib/gssapi/mechglue/g_imp_name.c
    lib/gssapi/mechglue/g_imp_sec_context.c
    lib/gssapi/mechglue/g_init_sec_context.c
    lib/gssapi/mechglue/g_initialize.c
    lib/gssapi/mechglue/g_inquire_context.c
    lib/gssapi/mechglue/g_inquire_cred.c
    lib/gssapi/mechglue/g_inquire_names.c
    lib/gssapi/mechglue/g_process_context.c
    lib/gssapi/mechglue/g_rel_buffer.c
    lib/gssapi/mechglue/g_rel_cred.c
    lib/gssapi/mechglue/g_rel_name.c
    lib/gssapi/mechglue/g_rel_oid_set.c
    lib/gssapi/mechglue/g_seal.c
    lib/gssapi/mechglue/g_sign.c
    lib/gssapi/mechglue/g_store_cred.c
    lib/gssapi/mechglue/g_unseal.c
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.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/prop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    slave/kpropd_rpc.c
    slave/kproplog.c

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplg.c

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/*

SSSD

ID-mapping library

Authors:
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# Makefile for BSD systems

INCFLAGS += -I${LIBFFI_BUILD_DIR}/include
LOCAL_LIBS += ${LIBFFI} -lpthread

LIBFFI_CFLAGS = ${FFI_MMAP_EXEC} -pthread
LIBFFI_BUILD_DIR = ${.CURDIR}/libffi-${arch}

else
LIBFFI_SRC_DIR := $(srcdir)/libffi
endif

LIBFFI = $(LIBFFI_BUILD_DIR)/.libs/libffi_convenience.a
LIBFFI_CONFIGURE = $(LIBFFI_SRC_DIR)/configure --disable-static --with-pic=yes --disable-dependency-tracking

$(OBJS):$(LIBFFI)

$(LIBFFI):
@mkdir -p $(LIBFFI_BUILD_DIR)
@if [ ! -f $(LIBFFI_BUILD_DIR)/Makefile ]; then
  echo "Configuring libffi":
  cd $(LIBFFI_BUILD_DIR) &&
  /usr/bin/env CC="$(CC)" LD="$(LD)" CFLAGS="$(LIBFFI_CFLAGS)" GREP_OPTIONS="" /
  /bin/sh $(LIBFFI_CONFIGURE) $(LIBFFI_HOST) > /dev/null;
fi
@cd $(LIBFFI_BUILD_DIR) && $(MAKE)

3.266 libsss_idmap 1.15.2-50.el7_4.8

3.266.1 Available under license:

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# -*- makefile -*-
#
# Makefile for BSD systems
#

INCFLAGS += -I${LIBFFI_BUILD_DIR}/include
LOCAL_LIBS += ${LIBFFI} -lpthread

LIBFFI_CFLAGS = ${FFI_MMAP_EXEC} -pthread
LIBFFI_BUILD_DIR = ${.CURDIR}/libffi-${arch}

.if ${srcdir} == "."
LIBFFI_SRC_DIR := ${.CURDIR}/libffi
.else
LIBFFI_SRC_DIR := ${srcdir}/libffi
.endif

LIBFFI = ${LIBFFI_BUILD_DIR}/.libs/libffi_convenience.a
LIBFFI_CONFIGURE = ${LIBFFI_SRC_DIR}/configure --disable-static \
    --with-pic=yes --disable-dependency-tracking

$(OBJS):${LIBFFI}

$(LIBFFI): 
@mkdir -p ${LIBFFI_BUILD_DIR}
@if [ ! -f ${LIBFFI_BUILD_DIR}/Makefile ]; then \
    echo "Configuring libffi"; \
    cd ${LIBFFI_BUILD_DIR} && \
    /usr/bin/env CC="${CC}" LD="${LD}" CFLAGS="${LIBFFI_CFLAGS}" GREP_OPTIONS="" \
    /bin/sh ${LIBFFI_CONFIGURE} ${LIBFFI_HOST} > /dev/null; \
    fi
@cd ${LIBFFI_BUILD_DIR} && ${MAKE}

3.267 libsss_sudo 1.15.2-50.el7_4.8
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# -*- makefile -*#
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#
INCFLAGS += -I${LIBFFI_BUILD_DIR}/include
LOCAL_LIBS += ${LIBFFI} -lpthread
LIBFFI_CFLAGS = ${FFI_MMAP_EXEC} -pthread
LIBFFI_BUILD_DIR = ${.CURDIR}/libffi-${arch}
.if ${srcdir} == "."
LIBFFI_SRC_DIR := ${.CURDIR}/libffi
.else
LIBFFI_SRC_DIR := ${srcdir}/libffi
.endif

LIBFFI = ${LIBFFI_BUILD_DIR}/.libs/libffi_convenience.a
LIBFFI_CONFIGURE = ${LIBFFI_SRC_DIR}/configure --disable-static \
--with-pic=yes --disable-dependency-tracking
$(OBJS):${LIBFFI}
$(LIBFFI):
@mkdir -p ${LIBFFI_BUILD_DIR}
@if [ ! -f ${LIBFFI_BUILD_DIR}/Makefile ]; then \
echo "Configuring libffi"; \
cd ${LIBFFI_BUILD_DIR} && \
/usr/bin/env CC="${CC}" LD="${LD}" CFLAGS="${LIBFFI_CFLAGS}" GREP_OPTIONS="" \
/bin/sh ${LIBFFI_CONFIGURE} ${LIBFFI_HOST} > /dev/null; \
fi
@cd ${LIBFFI_BUILD_DIR} && ${MAKE}

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Version 3, 29 June 2007

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# -*- makefile -*-
#
# Makefile for BSD systems
#

INCFLAGS += -I${LIBFFI_BUILD_DIR}/include
LOCAL_LIBS += ${LIBFFI} -lpthread

LIBFFI_CFLAGS = ${FFI_MMAP_EXEC} -pthread
LIBFFI_BUILD_DIR = ${.CURDIR}/libffi-${arch}

.import $(srcdir) == ".";
LIBFFI_SRC_DIR := ${.CURDIR}/libffi
.else
LIBFFI_SRC_DIR := $(srcdir)/libffi
.endif

LIBFFI = $(LIBFFI_BUILD_DIR)/.libs/libffi_convenience.a
LIBFFI_CONFIGURE = $(LIBFFI_SRC_DIR)/configure --disable-static --disable-static --disable-static --disable-static \ 
--with-pic=yes --disable-dependency-tracking

$(OBJS):$(LIBFFI):

$(LIBFFI):
    @mkdir -p $(LIBFFI_BUILD_DIR)
    @if [ ! -f $(LIBFFI_BUILD_DIR)/Makefile ]; then \ 
        echo "Configuring libffi"; \ 
        cd $(LIBFFI_BUILD_DIR) && \ 
        /usr/bin/env CC="$(CC)" LD="$(LD)" CFLAGS="$(LIBFFI_CFLAGS)" GREP_OPTIONS="" \ 
        /bin/sh $(LIBFFI_CONFIGURE) $(LIBFFI_HOST) > /dev/null; \ 
    fi
    @cd $(LIBFFI_BUILD_DIR) && $(MAKE)

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3.272 libvirt-libs 3.9.0-14.el7_5.6

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# -*- makefile -*-
#
# Makefile for BSD systems
#

INCFLAGS += -I${LIBFFI_BUILD_DIR}/include
LOCAL_LIBS += ${LIBFFI} -lpthread

LIBFFI_CFLAGS = ${FFI_MMAP EXEC} -pthread
LIBFFI_BUILD_DIR = ${.CURDIR}/libffi-${arch}

.if ${srcdir} == "."
LIBFFI_SRC_DIR := ${.CURDIR}/libffi
.else
LIBFFI_SRC_DIR := ${srcdir}/libffi
.endif
LIBFFI = ${LIBFFI_BUILD_DIR}/libs/libffi_convenience.a
LIBFFI_CONFIGURE = ${LIBFFI_SRC_DIR}/configure --disable-static --with-pic=yes --disable-dependency-tracking

$(OBJS):${LIBFFI}

$(LIBFFI):
@mkdir -p ${LIBFFI_BUILD_DIR}
@if [ ! -f ${LIBFFI_BUILD_DIR}/Makefile ]; then \
    echo "Configuring libffi"; \
    cd ${LIBFFI_BUILD_DIR} && \
    /usr/bin/env CC="${CC}" LD="${LD}" CFLAGS="${LIBFFI_CFLAGS}" GREP_OPTIONS="" \
    /bin/sh ${LIBFFI_CONFIGURE} ${LIBFFI_HOST} > /dev/null; \
    fi
@cd ${LIBFFI_BUILD_DIR} && ${MAKE}

3.273 libxslt_GPLv2 1.1.28 :5.el7

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```ruby
# -*- mode:ruby -*-
# -*- coding: utf-8 -*-
Gem::Specification.new do |s|
  s.name = 'maven-tools'
  s.version = '123'
  s.summary = 'helpers for maven related tasks'
  s.description = 'adds versions conversion from rubygems to maven and vice versa, ruby DSL for POM (Project Object Model from maven), pom generators, etc'
  s.homepage = 'http://github.com/torquebox/maven-tools'

  s.authors = ['Christian Meier']
  s.email = ['m.kristian@web.de']

  s.license = 'unknown'
end

# vim: syntax=Ruby
Copyright (c) 2007 Nathan Sobo.

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Jay Adkisson
Jordan Sissel
Marc Fournier
Michael Blume
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sabowski
Thomas Haggett
Pieter Loubser
Aleix Conchillo Flaqu (github: aconchillo)
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3.282 memcached-1.4.15-10.el7_3.1.x86_64
1.4.15 :10.el7_3.1
3.282.1 Available under license :
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This file contains a list of people who have contributed code and
effort to the memcached project. If you don't see your name mentioned
send email to the memcached mailing list so you can be immortalized.

Also see the ChangeLog for even more people who have helped over the
years by submitting fixes, patches and reporting bugs.
Major authors:

-------------------

Brad Fitzpatrick <brad@danga.com> -- maintainer, original implementations

Anatoly Vorobey <mellon@pobox.com> -- lots of the modern server code

Steven Grimm <sgrimm@facebook.com> -- iov writing (less CPU), UDP mode,
non-2.0 slab mantissas, multithread, ...

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3.283 mesa-libEGL 17.2.3 :8.20171019.el7

3.283.1 Available under license:

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<meta http-equiv="content-type" content="text/html; charset=utf-8">
<title>License / Copyright Information</title>
<link rel="stylesheet" type="text/css" href="mesa.css">
</head>
<body>

<div class="header">
<h1>The Mesa 3D Graphics Library</h1>
</div>

<iframe src="contents.html"></iframe>

<div class="content">
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```
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</p>


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<pre>
Component         Location               License
------------------------------------------------------------------
Main Mesa code    src/mesa/               MIT
Device drivers    src/mesa/drivers/*     MIT, generally
Gallium code      src/gallium/            MIT
Ext headers       include/GL/glext.h     Khronos
                   include/GL/glxext.h
GLX client code   src/glx/               SGI Free Software License B
C11 thread        include/c11/threads*.h  Boost (permissive)
emulation
</pre>

<p>In general, consult the source files for license terms.</p>

</html>
Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> > What we meant with that is that we made an exception for clause 2.
> > Instead of clause 2, in the case of the Mesa project, you have to name
> > the technique Jimenez's MLAA in the config options of Mesa. We did that
> > just to allow them to solve license issues. This exception should be for
> > the Mesa project, and any project using Mesa, like Fedora.
> > > We want to widespread usage of our MLAA, so we want to avoid any kind of
> > license complications. Hope current one is good for Fedora, if not
> > please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option
is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
anti-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default
quality". Is this in compliance with your exception?

Thanks again,

~tom
Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
to: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
*   "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
*   Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:
- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
```
0123456789
-  +  
/  *  
%  <  >  
[  ]  (  )  {  }  ^  |
&  ~  =  !  :  ;  .  ?
..   ..  ..  ..  ..  ..  ..
```

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*     Underscore
*     Numbers 0-9
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*    ampersand, tilde, equals, exclamation point, colon, semicolon,
*    comma, and question mark
*
* Special:
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*
* White space:
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*
* [GLSL Language Specification 4.30.6, section 3.1]
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*/

abcdefghijklmnopqrstuvwxyz
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 * # (C) Copyright IBM Corporation 2004
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#
# Authors:
#    Ian Romanick <idr@us.ibm.com>

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SOFTWARE."""

3.284 mesa-libGL 17.2.3 :8.20171019.el7

3.284.1 Available under license :

<html lang="en">
<head>
<meta http-equiv="content-type" content="text/html; charset=utf-8">
<title>License / Copyright Information</title>
<link rel="stylesheet" type="text/css" href="mesa.css">
</head>
<body>

<header>
<h1>The Mesa 3D Graphics Library</h1>
</header>


Mesa is a 3-D graphics library with an API which is very similar to that of OpenGL.*
To the extent that Mesa utilizes the OpenGL command syntax or state machine, it is being used with authorization from Silicon Graphics, Inc. However, the author does not possess an OpenGL license from SGI, and makes no claim that Mesa is in any way a compatible replacement for OpenGL or associated with SGI. Those who want a licensed implementation of OpenGL should contact a licensed vendor.

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The core Mesa library is licensed according to the terms of the MIT license. This allows integration with the XFree86, Xorg and DRI projects.
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<h1>Attention, Contributors</h1>

<p>When contributing to the Mesa project you must agree to the licensing terms of the component to which you're contributing. The following section lists the primary components of the Mesa distribution and their respective licenses.</p>

<h1>Mesa Component Licenses</h1>

<pre>
<table>
<thead>
<tr>
<th>Component</th>
<th>Location</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Mesa code</td>
<td>src/mesa/</td>
<td>MIT</td>
</tr>
<tr>
<td>Device drivers</td>
<td>src/mesa/drivers/*/</td>
<td>MIT, generally</td>
</tr>
<tr>
<td>Gallium code</td>
<td>src/gallium/</td>
<td>MIT</td>
</tr>
<tr>
<td>Ext headers</td>
<td>include/GL/glexth</td>
<td>Khronos</td>
</tr>
<tr>
<td></td>
<td>include/GL/glxext.h</td>
<td></td>
</tr>
</tbody>
</table>
</pre>
In general, consult the source files for license terms.

Yes to both questions.

Thanks,
Jorge

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> 
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
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> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
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> We want to widespread usage of our MLAA, so we want to avoid any kind of
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> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:

"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
Jose I. Echevarria, Fernando Navarro and Diego Gutierrez.”

Specifically, if this is done as part of documentation included with Mesa, is that sufficient to meet clause 2 even if the Mesa config option is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological anti-aliasing based on Jimenez' MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

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Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.
The license says:

* 2. Redistributions in binary form must reproduce the following statement:
  *
  * "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
  * Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
  *
  * Only for use in the Mesa project, this point 2 is filled by naming the
  * technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project
/* Legal characters in GLSL are:
*    Identifier characters:
*        Letters a-z
*        Letters A-Z
*        Underscore
*        Numbers 0-9
*    Punctuation:
*        Period, plus, dash, slash, asterisk, percent, angled brackets,
*        square brackets, parentheses, braces, caret, vertical bar,
*        ampersand, tilde, equals, exclamation point, colon, semicolon,
*        comma, and question mark
*    Special:
*        Number sign (as used in preprocessor)
*        Backslash just before newline as line continuation
*    White space:
*        Space, horizontal tab, vertical tab, form feed, carriage-return,
*        and line-feed.
*    [GLSL Language Specification 4.30.6, section 3.1]
*    In this file, we test each of these in turn as follows:
*    Identifier characters: All pass through unchanged
*    Punctuation: All pass through unchanged
* Special: Empty directive replaced with blank line
*   Line continuation merges two lines, then a blank line
*   Whitespace: 4 horizontal space characters each replaced with space
*   2 newline characters each replaced with a newline
*
*/

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
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#    Ian Romanick <idr@us.ibm.com>

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SOFTWARE."""
3.285.1 Available under license:

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```
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<pre>
Component         Location               License
------------------------------------------------------------------
Main Mesa code    src/mesa/              MIT
Device drivers    src/mesa/drivers/*   MIT, generally
Gallium code      src/gallium/           MIT
Ext headers       include/GL/glext.h     Khronos
                    include/GL/glxext.h
GLX client code   src/glx/               SGI Free Software License B
C11 thread        include/c11/threads*.h Boost (permissive)
                    emulation
</pre>

In general, consult the source files for license terms.

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
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||
| Fedora Project |

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/* Letters A-Z */
/* Underscore */
/* Numbers 0-9 */
/* */
/* Punctuation: */
/* */
/* Period, plus, dash, slash, asterisk, percent, angled brackets, */
/* square brackets, parentheses, braces, caret, vertical bar, */
/* ampersand, tilde, equals, exclamation point, colon, semicolon, */
/* comma, and question mark */
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/* */
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* Space, horizontal tab, vertical tab, form feed, carriage-return, and line-feed.
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#    Ian Romanick <idr@us.ibm.com>

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3.286 mibble-mibs 2.9.2

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3.288 microcode_ctl 2.1 :47.2.el7_6

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This kbase https://access.redhat.com/articles/3436091 includes a table that maps Intel and AMD CPU processor code family names to updated Intel and AMD microcode package versions.

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* @author Mikael Grev, MiG InfoCom AB
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3.290 minlog 1.2

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3.291 Mobicent SCTP 1.5

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3.296 mongo-java-driver 3.7.1

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alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) 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.

e) Convey the object code using peer-to-peer transmission, provided
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Artyom Khafizov
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Christian Hopp
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David Fletcher
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Jan-Henrik Haukeland
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3.302 netaddr 0.7.19

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3.303 netifaces 0.10.6

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```
netifaces 0.10.6
```

------------

.. image:: https://drone.io/bitbucket.org/al45tair/netifaces/status.png
   :target: https://drone.io/bitbucket.org/al45tair/netifaces/latest
   :alt: Build Status

1. What is this?

----------

It's been annoying me for some time that there's no easy way to get the address(es) of the machine's network interfaces from Python. There is a good reason for this difficulty, which is that it is virtually impossible to do so in a portable manner. However, it seems to me that there should be a package you can easy_install that will take care of working out the details of doing so on the machine you're using, then you can get on with writing Python code without concerning yourself with the nitty gritty of system-dependent low-level networking APIs.

This package attempts to solve that problem.
2. How do I use it?

-------------------

First you need to install it, which you can do by typing::

```
tar xvzf netifaces-0.10.6.tar.gz
cd netifaces-0.10.6
python setup.py install
```

**Note that you will need the relevant developer tools for your platform**, as netifaces is written in C and installing this way will compile the extension.

Once that's done, you'll need to start Python and do something like the following::

```
>>> import netifaces
```

Then if you enter

```
>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']
```

you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

```
>>> netifaces.ifaddresses('lo0')
{18: [{}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}]}
```

Hmmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first::

```python
{ 18: [...], 2: [...], 30: [...] }
```

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is `AF_LINK` (which means the link layer interface, e.g. Ethernet), 2 is `AF_INET` (normal Internet addresses), and 30 is `AF_INET6` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing netifaces, so the module declares a range of values that you might need. e.g.

```
>>> netifaces.AF_LINK
18
```
Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the ``AF_INET`` addresses now:

```
>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: *you can have more than one address of the same type associated with each interface*.

*Asking for "the" address of a particular interface doesn't make sense.*

Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a *peer* address rather than a broadcast address.

Let's look at a more interesting interface.

```
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask *may not* appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We can do

```
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a'}]
```

Note that this may not be available on platforms without getifaddrs(), unless they happen to implement ``SIOCGIFHWADDR``. Note also that you just get the address; it's unlikely that you'll see anything else with an ``AF_LINK`` address. Oh, and don't assume that all ``AF_LINK`` addresses are Ethernet; you might, for instance, be on a Mac, in which case:
>>> addrs = netifaces.ifaddresses('fw0')
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a:bc:de'}]

No, that isn’t an exceptionally long Ethernet MAC address---it’s a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

>>> netifaces.gateways()

This dictionary is keyed on address family---in this case, `AF_INET`---and each entry is a list of gateways as `(address, interface, is_default)` tuples. Notice that here we have two separate gateways for IPv4 (`AF_INET`); some operating systems support configurations like this and can either route packets based on their source, or based on administratively configured routing tables.

For convenience, we also allow you to index the dictionary with the special value `‘default’`, which returns a dictionary mapping address families to the default gateway in each case. Thus you can get the default IPv4 gateway with

>>> gws = netifaces.gateways()
>>> gws[‘default’][netifaces.AF_INET]
(‘10.0.1.1’, ‘en0’)

Do note that there may be no default gateway for any given address family; this is currently very common for IPv6 and much less common for IPv4 but it can happen even for `AF_INET`.

BTW, if you're trying to configure your machine to have multiple gateways for the same address family, it's a very good idea to check the documentation for your operating system *very* carefully, as some systems become extremely confused or route packets in a non-obvious manner.

I'm very interested in hearing from anyone (on any platform) for whom the `gateways()` method doesn't produce the expected results. It's quite complicated extracting this information from the operating system (whichever operating system we're talking about), and so I expect there's at least one system out there where this just won't work.

3. This is great! What platforms does it work on?

-----------------------------------------------

It gets regular testing on OS X, Linux and Windows. It has also been used successfully on Solaris, and it's expected to work properly on other UNIX-like
If you are running something that is not supported, and wish to contribute a patch, please use BitBucket to send a pull request.

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5. Why the jump to 0.10.0?

Because someone released a fork of netifaces with the version 0.9.0. Hopefully skipping the version number should remove any confusion. In addition starting with 0.10.0 Python 3 is now supported and other features/bugfixes have been included as well. See the CHANGELOG for a more complete list of changes.

3.304 netty 4.0.36

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3.305 NetworkManager 1.12.0 :8.el7_6

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3.312 openpyxl 2.4.0 :a1

3.313 openssh-clients 7.4p1

3.314 openssh-server 7.4p1

3.315 openssl 1.0.2k :16.el7

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# Configure passwords and the Swift Hash
MYSQL_PASSWORD=DEVSTACK_PASSWORD
RABBIT_PASSWORD=DEVSTACK_PASSWORD
SERVICE_TOKEN=DEVSTACK_PASSWORD
ADMIN_PASSWORD=DEVSTACK_PASSWORD
SERVICE_PASSWORD=DEVSTACK_PASSWORD
SWIFT_HASH=DEVSTACK_PASSWORD

# Configure the stable OpenStack branches used by DevStack
# For stable branches see
# http://git.openstack.org/cgit/openstack-dev/devstack/refs/
CINDER_BRANCH=stable/OPENSTACK_VERSION
CEILOMETER_BRANCH=stable/OPENSTACK_VERSION
GLANCE_BRANCH=stable/OPENSTACK_VERSION
HEAT_BRANCH=stable/OPENSTACK_VERSION
HORIZON_BRANCH=stable/OPENSTACK_VERSION
KEYSTONE_BRANCH=stable/OPENSTACK_VERSION
NEUTRON_BRANCH=stable/OPENSTACK_VERSION
NOVA_BRANCH=stable/OPENSTACK_VERSION
SWIFT_BRANCH=stable/OPENSTACK_VERSION
ZAQAR_BRANCH=stable/OPENSTACK_VERSION

# Enable Swift
enable_service s-proxy
enable_service s-object
enable_service s-container
enable_service s-account

# Disable Nova Network and enable Neutron
disable_service n-net
enable_service q-svc
enable_service q-agt
enable_service q-dhcp
enable_service q-l3
enable_service q-meta
enable_service q-metering

# Enable Zaqar
enable_plugin zaqar https://github.com/openstack/zaqar
enable_service zaqar-server

# Enable Heat
enable_service h-eng
enable_service h-api
enable_service h-api-cfn
enable_service h-api-cw
# Automatically download and register a VM image that Heat can launch
# For more information on Heat and DevStack see
# https://docs.openstack.org/heat/latest/getting_started/on_devstack.html
IMAGE_URL_SITE="http://download.fedoraproject.org"
IMAGE_URL_PATH="/pub/fedoraproject.org/releases/CloudImages/x86_64/images/
IMAGE_URL_FILE="Fedora-Cloud-Base-25-1.3.x86_64.qcow2"
IMAGE_URLS+="","$IMAGE_URL_SITE$IMAGE_URL_PATH$IMAGE_URL_FILE"

# Logging
LOGDAYS=1
LOGFILE=/opt/stack/logs/stack.sh.log
LOGDIR=/opt/stack/logs
openstack/
  connection.py
  resource.py
  compute/
    compute_service.py
  v2/
    server.py
    _proxy.py
  tests/
    compute/
      v2/
    test_server.py
========================================================================

OpenStack SDK Developer Coding Standards
========================================================================

In the beginning, there were no guidelines. And it was good. But that
didn't last long. As more and more people added more and more code,
we realized that we needed a set of coding standards to make sure that
the openstacksdk API at least *attempted* to display some form of consistency.

Thus, these coding standards/guidelines were developed. Note that not
all of openstacksdk adheres to these standards just yet. Some older code has
not been updated because we need to maintain backward compatibility.
Some of it just hasn't been changed yet. But be clear, all new code
*must* adhere to these guidelines.

Below are the patterns that we expect openstacksdk developers to follow.

Release Notes
============

openstacksdk uses `reno <http://docs.openstack.org/developer/reno/>`_ for
managing its release notes. A new release note should be added to
your contribution anytime you add new API calls, fix significant bugs,
add new functionality or parameters to existing API calls, or make any
other significant changes to the code base that we should draw attention to for the user base.

It is *not* necessary to add release notes for minor fixes, such as correction of documentation typos, minor code cleanup or reorganization, or any other change that a user would not notice through normal usage.

Exceptions
===========

Exceptions should NEVER be wrapped and re-raised inside of a new exception. This removes important debug information from the user. All of the exceptions should be raised correctly the first time.

openstack.cloud API Methods
----------------------------

The `openstack.cloud` layer has some specific rules:

- When an API call acts on a resource that has both a unique ID and a name, that API call should accept either identifier with a name_or_id parameter.

- All resources should adhere to the get/list/search interface that control retrieval of those resources. E.g., `get_image()`, `list_images()`, `search_images()`.

- Resources should have `create_RESOURCE()`, `deleteRESOURCE()`, `updateRESOURCE()` API methods (as it makes sense).

- For those methods that should behave differently for omitted or None-valued parameters, use the `_utils.valid_kwargs` decorator. Notably: all Neutron `update_*` functions.

- Deleting a resource should return True if the delete succeeded, or False if the resource was not found.

Returned Resources
------------------

Complex objects returned to the caller must be a `munch.Munch` type. The `openstack._adapter.ShadeAdapter` class makes resources into `munch.Munch`.

All objects should be normalized. It is shade’s purpose in life to make OpenStack consistent for end users, and this means not trusting the clouds to return consistent objects. There should be a normalize function in `openstack/cloud/_normalize.py` that is applied to objects before returning them to the user. See :doc:`../user/model` for further details on object model
Fields should not be in the normalization contract if we cannot commit to providing them to all users.

Fields should be renamed in normalization to be consistent with the rest of `openstack.cloud`. For instance, nothing in `openstack.cloud` exposes the legacy OpenStack concept of "tenant" to a user, but instead uses "project" even if the cloud in question uses tenant.

**Nova vs. Neutron**

- Recognize that not all cloud providers support Neutron, so never assume it will be present. If a task can be handled by either Neutron or Nova, code it to be handled by either.

- For methods that accept either a Nova pool or Neutron network, the parameter should just refer to the network, but documentation of it should explain about the pool. See: `create_floating_ip()` and `available_floating_ip()` methods.

**Tests**

- New API methods *must* have unit tests!

- New unit tests should only mock at the REST layer using `requests_mock`. Any mocking of openstacksdk itself should be considered legacy and to be avoided. Exceptions to this rule can be made when attempting to test the internals of a logical shim where the inputs and output of the method aren't actually impacted by remote content.

- Functional tests should be added, when possible.

- In functional tests, always use unique names (for resources that have this attribute) and use it for clean up (see next point).

- In functional tests, always define cleanup functions to delete data added by your test, should something go wrong. Data removal should be wrapped in a try except block and try to delete as many entries added by the test as possible.

**Contributing to the OpenStack SDK**

This section of documentation pertains to those who wish to contribute to the development of this SDK. If you're looking for documentation on how to use the SDK to build applications, please see the `user` section.
About the Project

-------------

The OpenStack SDK is an OpenStack project aimed at providing a complete software development kit for the programs which make up the OpenStack community. It is a set of Python-based libraries, documentation, examples, and tools released under the Apache 2 license.

Contribution Mechanics

-------------

.. toctree::
   :maxdepth: 2

   contributing

Contacting the Developers

-------------

IRC

***

The developers of this project are available in the `#openstack-sdks <http://webchat.freenode.net?channels=%23openstack-sdks>`_ channel on Freenode. This channel includes conversation on SDKs and tools within the general OpenStack community, including OpenStackClient as well as occasional talk about SDKs created for languages outside of Python.

Email

*****

The `openstack-dev <mailto:openstack-dev@openstack.org?subject=[python-openstacksdk]%20Question%20about%20the%20python-openstacksdk>`_ mailing list fields questions of all types on OpenStack. Using the `[python-openstacksdk]` filter to begin your email subject will ensure that the message gets to SDK developers.

Coding Standards

-------------

We are a bit stricter than usual in the coding standards department. It's a good idea to read through the `:doc:` coding section.

.. toctree::
   :maxdepth: 2

   coding
Development Environment

------------------------

The first step towards contributing code and documentation is to setup your development environment. We use a pretty standard setup, but it is fully documented in our :doc:`setup <setup>` section.

.. toctree::
   :maxdepth: 2

   setup

Testing

------

The project contains three test packages, one for unit tests, one for functional tests and one for examples tests. The ``openstack.tests.unit`` package tests the SDK's features in isolation. The ``openstack.tests.functional`` and ``openstack.tests.examples`` packages test the SDK's features and examples against an OpenStack cloud.

.. toctree::

   testing

Project Layout

--------------

The project contains a top-level ``openstack`` package, which houses several modules that form the foundation upon which each service's API is built on. Under the ``openstack`` package are packages for each of those services, such as ``openstack.compute``.

.. toctree::

   layout

Adding Features

-------------

Does this SDK not do what you need it to do? Is it missing a service? Are you a developer on another project who wants to add their service? You're in the right place. Below are examples of how to add new features to the OpenStack SDK.

.. toctree::
   :maxdepth: 2
create/resource

.. TODO(briancurtin): document how to create a proxy
.. TODO(briancurtin): document how to create auth plugins

clouds:
test_cloud:
  region_name: RegionOne
  auth:
    auth_url: http://xxx.xxx.xxx.xxx:5000/v2.0/
    username: demo
    password: secrete
    project_name: demo
  example:
    image_name: fedora-20.x86_64
    flavor_name: m1.small
    network_name: private

rackspace:
cloud: rackspace
auth:
  username: joe
  password: joes-password
  project_name: 123123
  region_name: IAD

.. TODO(shade) Update this guide.

Creating a New Resource
=======================

This guide will walk you through how to add resources for a service.

Naming Conventions
------------------

Above all, names across this project conform to Python's naming standards, as laid out in `PEP 8 <https://www.python.org/dev/peps/pep-0008/>`_

The relevant details we need to know are as follows:

* Module names are lower case, and separated by underscores if more than one word. For example, `openstack.object_store`
* Class names are capitalized, with no spacing, and each subsequent word is capitalized in a name. For example, `ServerMetadata`.
* Attributes on classes, including methods, are lower case and separated by underscores. For example, `allow_list` or `get_data`.

Services
******
Services in the OpenStack SDK are named after their program name, not their code name. For example, the project often known as "Nova" is always called "compute" within this SDK.

This guide walks through creating service for an OpenStack program called "Fake". Following our guidelines, the code for its service would live under the "openstack.fake" namespace. What follows is the creation of a `class:`~openstack.resource.Resource` class for the "Fake" service.

Resources
*********

Resources are named after the server-side resource, which is set in the `base_path` attribute of the resource class. This guide creates a resource class for the `/fake` server resource, so the resource module is called "fake.py" and the class is called "Fake".

An Example
----------

```
`openstack/fake/fake_service.py`
```

```
`openstack/fake/v2/fake.py`
```

```
`fake.Fake` Attributes
------------------------

Each service's resources inherit from `class:`~openstack.resource.Resource`, so they can override any of the base attributes to fit the way their particular resource operates.

```
`resource_key` and `resources_key`
```

These attributes are set based on how your resource responds with data. The default values for each of these are "None", which works fine when your resource returns a JSON body that can be used directly without a top-level key, such as `"{ "name": "Ernie Banks", ... }"`.
However, our `Fake` resource returns JSON bodies that have the details of the resource one level deeper, such as
```
"resources": {"name": "Ernie Banks", ...}, {...}
```. It does a similar thing with single resources, putting them inside a dictionary keyed on `"resource"`.

By setting `Fake.resource_key` on line 8, we tell the `Resource.create`, `Resource.get`, and `Resource.update` methods that we're either sending or receiving a resource that is in a dictionary with that key.

By setting `Fake.resources_key` on line 9, we tell the `Resource.list` method that we're expecting to receive multiple resources inside a dictionary with that key.

```
"base_path"
*************
```
The `base_path` is the URL we're going to use to make requests for this resource. In this case, line 10 sets `base_path = "/fake"`, which also corresponds to the name of our class, `"Fake"`.

Most resources follow this basic formula. Some cases are more complex, where the URL to make requests to has to contain some extra data. The volume service has several resources which make either basic requests or detailed requests, so they use `base_path = "/volumes/%s(detailed)"`. Before a request is made, if `"detailed = True"`, they convert it to a string so the URL becomes `"/volumes/detailed"`. If it's `"False"`, they only send `"/volumes/"`.

```
"service"
**********
```
*Line 11* is an instance of the service we're implementing. Each resource ties itself to the service through this setting, so that the proper URL can be constructed.

In `fake_service.py`, we specify the valid versions as well as what this service is called in the service catalog. When a request is made for this resource, the Session now knows how to construct the appropriate URL using this `FakeService` instance.

Supported Operations
---------------------

The base `openstack.resource.Resource` disallows all types of requests by default, requiring each resource to specify which requests they support. On lines 14-19, our `Fake` resource specifies that it'll work with all of the operations.
In order to have the following methods work, you must allow the corresponding value by setting it to `"True"`:

```
+----------------------------------------------+----------------+
| :class:`~openstack.resource.Resource.create` | allow_create   |
+----------------------------------------------+----------------+
| :class:`~openstack.resource.Resource.delete` | allow_delete   |
+----------------------------------------------+----------------+
| :class:`~openstack.resource.Resource.head`   | allow_head     |
+----------------------------------------------+----------------+
| :class:`~openstack.resource.Resource.list`   | allow_list     |
+----------------------------------------------+----------------+
| :class:`~openstack.resource.Resource.get`    | allow_get      |
+----------------------------------------------+----------------+
| :class:`~openstack.resource.Resource.update` | allow_update   |
+----------------------------------------------+----------------+
```

An additional attribute to set is `"put_update"` if your service uses `"PUT"` requests in order to update a resource. By default, `"PATCH"` requests are used for `"Resource.update"`.

Properties
---------

.. TODO(shade) Especially this section

The way resource classes communicate values between the user and the server are `:class:`~openstack.resource.prop` objects. These act similarly to Python's built-in property objects, but they share only the name - they're not the same.

Properties are set based on the contents of a response body or headers. Based on what your resource returns, you should set `"prop"`s to map those values to ones on your `:class:`~openstack.resource.Resource` object.

- Line 22* sets a prop for `"timestamp"` , which will cause the `"Fake.timestamp"` attribute to contain the value returned in an `"X-Timestamp"` header, such as from a `"Fake.head"` request.

- Line 24* sets a prop for `"name"`, which is a value returned in a body, such as from a `"Fake.get"` request. Note from *line 12* that `"name"` is specified its `"id"` attribute, so when this resource is populated from a response, `"Fake.name"` and `"Fake.id"` are the same value.

- Line 26* sets a prop which contains an alias. `"Fake.value"` will be set when a response body contains a `"value"`, or when a header contains `"X-Resource-Value"`. 

*Line 28* specifies a type to be checked before sending the value in a request. In this case, we can only set `"Fake.cool"` to either `"True"` or `"False"`, otherwise a TypeError will be raised if the value can't be converted to the expected type.

Documentation
-------------

We use Sphinx's `"autodoc"` feature in order to build API documentation for each resource we expose. The attributes we override from `:class:`~openstack.resource.Resource` don't need to be documented, but any `:class:`~openstack.resource.prop` attributes must be. All you need to do is add a comment *above* the line to document, with a colon following the pound-sign.

*Lines 21, 23, 25, and 27-28* are comments which will then appear in the API documentation. As shown in *lines 27 & 28*, these comments can span multiple lines.

```python
from openstack import service_filter

class FakeService(service_filter.ServiceFilter):
    """The fake service.""

    valid_versions = [service_filter.ValidVersion('v2')]

    def __init__(self, version=None):
        """Create a fake service.""
        super(FakeService, self).__init__(service_type='fake', version=version)

from openstack.fake import fake_service
from openstack import resource

class Fake(resource.Resource):
    resource_key = "resource"
    resources_key = "resources"
    base_path = "/fake"
    service = fake_service.FakeService()

    allow_create = True
    allow_get = True
    allow_update = True
    allow_delete = True
```

# Apache 2 header omitted for brevity
allow_list = True
allow_head = True

#: The transaction date and time.
timestamp = resource.Header("x-timestamp")
#: The name of this resource.
name = resource.Body("name", alternate_id=True)
#: The value of the resource. Also available in headers.
value = resource.Body("value", alias="x-resource-value")
#: Is this resource cool? If so, set it to True.
#: This is a multi-line comment about cool stuff.
cool = resource.Body("cool", type=bool)

Creating a Development Environment
==================================

Required Tools
--------------

Python
*****

As the OpenStack SDK is developed in Python, you will need at least one version of Python installed. It is strongly preferred that you have at least one of version 2 and one of version 3 so that your tests are run against both. Our continuous integration system runs against several versions, so ultimately we will have the proper test coverage, but having multiple versions locally results in less time spent in code review when changes unexpectedly break other versions.

Python can be downloaded from https://www.python.org/downloads.

virtualenv
********

In order to isolate our development environment from the system-based Python installation, we use `virtualenv <https://virtualenv.pypa.io/en/latest/>`_. This allows us to install all of our necessary dependencies without interfering with anything else, and preventing others from interfering with us. Virtualenv must be installed on your system in order to use it, and it can be had from PyPI, via pip, as follows. Note that you may need to run this as an administrator in some situations.::

$ apt-get install python-virtualenv  # Debian based platforms
$ yum install python-virtualenv      # Red Hat based platforms
$ pip install virtualenv            # Mac OS X and other platforms

You can create a virtualenv in any location. A common usage is to store all of your virtualenvs in the same place, such as under your home directory.
To create a virtualenv for the default Python, likely a version 2, run the following:

```
$ virtualenv $HOME/envs/sdk
```

To create an environment for a different version, such as Python 3, run the following:

```
$ virtualenv -p python3.4 $HOME/envs/sdk3
```

When you want to enable your environment so that you can develop inside of it, you *activate* it. To activate an environment, run the `/bin/activate` script inside of it, like the following:

```
$ source $HOME/envs/sdk3/bin/activate
(sdk3) $
```

Once you are activated, you will see the environment name in front of your command prompt. In order to exit that environment, run the `deactivate` command.

```
tox
***
```

We use `tox` as our test runner, which allows us to run the same test commands against multiple versions of Python. Inside any of the virtualenvs you use for working on the SDK, run the following to install `tox` into it:

```
(sdk3)$ pip install tox
```

```
Git
***
```

The source of the OpenStack SDK is stored in Git. In order to work with our source repository, you must have Git installed on your system. If your system has a package manager, it can likely be had from there. If not, you can find downloads or the source at http://git-scm.com.

```
Getting the Source Code
------------------------

.. TODO(briancurtin): We should try and distill the following document into the minimally necessary parts to include directly in this section. I've talked to several people who are discouraged by that large of a document to go through before even getting into the project they want to work on. I don't want that to happen to us because we have the potential to be more public facing than a lot of other projects.
```
Before checking out the code, please read the OpenStack Developer's Guide for details on how to use the continuous integration and code review systems that we use.

The canonical Git repository is hosted on openstack.org at http://git.openstack.org/cgit/openstack/python-openstacksdk/. with a mirror on GitHub at https://github.com/openstack/python-openstacksdk. Because of how Git works, you can create a local clone from either of those, or your own personal fork.:

```
(sdk3)$ git clone https://git.openstack.org/openstack/python-openstacksdk.git
(sdk3)$ cd python-openstacksdk
```

Installing Dependencies
----------------------

In order to work with the SDK locally, such as in the interactive interpreter or to run example scripts, you need to install the project's dependencies:

```
(sdk3)$ pip install -r requirements.txt
```

After the downloads and installs are complete, you'll have a fully functional environment to use the SDK in.

Building the Documentation
--------------------------

Our documentation is written in reStructured Text and is built using Sphinx. A `docs` command is available in our `tox.ini`, allowing you to build the documentation like you'd run tests. The `docs` command is not evaluated by default.

```
(sdk3)$ tox -e docs
```

That command will cause the documentation, which lives in the `docs` folder, to be built. HTML output is the most commonly referenced, which is located in `docs/build/html`.

How the SDK is organized

The following diagram shows how the project is laid out.

```
.. literalinclude:: layout.txt
```

Resource
--------
The :class:`openstack.resource.Resource` base class is the building block of any service implementation. ``Resource`` objects correspond to the resources each service's REST API works with, so the :class:`openstack.compute.v2.server.Server` subclass maps to the compute service's ``https://openstack:1234/v2/servers`` resource.

The base ``Resource`` contains methods to support the typical CRUD operations supported by REST APIs, and handles the construction of URLs and calling the appropriate HTTP verb on the given ``Adapter``.

Values sent to or returned from the service are implemented as attributes on the ``Resource`` subclass with type :class:`openstack.resource.prop`. The ``prop`` is created with the exact name of what the API expects, and can optionally include a ``type`` to be validated against on requests. You should choose an attribute name that follows PEP-8, regardless of what the server-side expects, as this ``prop`` becomes a mapping between the two.::

    is_public = resource.prop('os-flavor-access:is_public', type=bool)

There are six additional attributes which the ``Resource`` class checks before making requests to the REST API. ``allow_create``, ``allow_retrieve``, ``allow_update``, ``allow_delete``, ``allow_head``, and ``allow_list`` are set to ``True`` or ``False``, and are checked before making the corresponding method call.

The ``base_path`` attribute should be set to the URL which corresponds to this resource. Many ``base_path``'s are simple, such as ``'/servers'``. For ``base_path``'s which are composed of non-static information, Python's string replacement is used, e.g., ``base_path = '/servers/%(server_id)s/ips'``.

``resource_key`` and ``resources_key`` are attributes to set when a ``Resource`` returns more than one item in a response, or otherwise requires a key to obtain the response value. For example, the ``Server`` class sets ``resource_key = 'server'`` as an individual ``Server`` is stored in a dictionary keyed with the singular noun, and ``resources_key = 'servers'`` as multiple ``Server``'s are stored in a dictionary keyed with the plural noun in the response.

Proxy
-----

Each service implements a ``Proxy`` class, within the ``'openstack/<program_name>/vX/_proxy.py'`` module. For example, the v2 compute service's ``Proxy`` exists in ``'openstack/compute/v2/_proxy.py'``.

This ``Proxy`` class contains a :class:`~keystoneauth1.adapter.Adapter` and
provides a higher-level interface for users to work with via a :class:`openstack.connection.Connection` instance. Rather than requiring users to maintain their own "Adapter" and work with lower-level :class:`openstack.resource.Resource` objects, the "Proxy" interface offers a place to make things easier for the caller.

Each "Proxy" class implements methods which act on the underlying "Resource" classes which represent the service. For example:

```python
def list_flavors(self, **params):
    return flavor.Flavor.list(self.session, **params)
```

This method is operating on the "openstack.compute.v2.flavor.Flavor.list" method. For the time being, it simply passes on the "Adapter" maintained by the "Proxy", and returns what the underlying "Resource.list" method does.

The implementations and method signatures of "Proxy" methods are currently under construction, as we figure out the best way to implement them in a way which will apply nicely across all of the services.

**Connection**

The :class:`openstack.connection.Connection` class builds atop a :class:`os_client_config.config.CloudRegion` object, and provides a higher level interface constructed of "Proxy" objects from each of the services.

The "Connection" class' primary purpose is to act as a high-level interface to this SDK, managing the lower level connection bits and exposing the "Resource" objects through their corresponding "Proxy" object.

If you've built proper "Resource" objects and implemented methods on the corresponding "Proxy" object, the high-level interface to your service should now be exposed.

**Testing**

The tests are run with `tox <https://tox.readthedocs.org/en/latest/>`_ and configured in `tox.ini`_. The test results are tracked by `testr <https://testrepository.readthedocs.org/en/latest/>`_ and configured in `.testr.conf`_.

**Unit Tests**

Run

***
In order to run the entire unit test suite, simply run the `tox` command inside of your source checkout. This will attempt to run every test command listed inside of `tox.ini`, which includes Python 2.7, 3.4, PyPy, and a PEP 8 check. You should run the full test suite on all versions before submitting changes for review in order to avoid unexpected failures in the continuous integration system.:

```
(sdk3)$ tox
...
py34: commands succeeded
py27: commands succeeded
pypy: commands succeeded
pep8: commands succeeded
congratulations :)
```

During development, it may be more convenient to run a subset of the tests to keep test time to a minimum. You can choose to run the tests only on one version. A step further is to run only the tests you are working on.:

```
(sdk3)$ tox -e py34                # Run run the tests on Python 3.4
(sdk3)$ tox -e py34 TestContainer  # Run only the TestContainer tests on 3.4
```

### Functional Tests

The functional tests assume that you have a public or private OpenStack cloud that you can run the tests against. The tests must be able to be run against public clouds but first and foremost they must be run against OpenStack. In practice, this means that the tests should initially be run against a stable branch of `DevStack <https://docs.openstack.org/devstack/latest/>`_.

DevStack

```
********
```

There are many ways to run and configure DevStack. The link above will show you how to run DevStack a number of ways. You'll need to choose a method you're familiar with and can run in your environment. Wherever DevStack is running, we need to make sure that python-openstacksdk contributors are using the same configuration.

This is the `local.conf` file we use to configure DevStack.

```
.. literalinclude:: local.conf
```

Replace `DEVSTACK_PASSWORD` with a password of your choice.

Replace `OPENSTACK_VERSION` with a `stable branch <http://git.openstack.org/cgit/openstack>`._
To connect the functional tests to an OpenStack cloud we use `os-client-config <http://git.openstack.org/cgit/openstack/os-client-config/tree/README.rst>`_.

To setup os-client-config create a `clouds.yaml` file in the root of your source checkout.

This is an example of a minimal configuration for a `clouds.yaml` that connects the functional tests to a DevStack instance. Note that one cloud under `clouds` must be named `test_cloud`.

.. literalinclude:: clouds.yaml
   :language: yaml

Replace ``xxx.xxx.xxx.xxx`` with the IP address or FQDN of your DevStack instance.

You can also create a ``~/.config/openstack/clouds.yaml`` file for your DevStack cloud environment using the following commands. Replace `DEVSTACK_SOURCE` with your DevStack source checkout.::

    (sdk3)$ source DEVSTACK_SOURCE/accrc/admin/admin
    (sdk3)$ ./create_yaml.sh

Run
***

Functional tests are run against both Python 2 and 3. In order to run the entire functional test suite, run the `tox -e functional` and `tox -e functional3` command inside of your source checkout. This will attempt to run every test command under `/openstack/tests/functional/` in the source tree. You should run the full functional test suite before submitting changes for review in order to avoid unexpected failures in the continuous integration system.::

    (sdk3)$ tox -e functional

    functional: commands succeeded
    congratulations :)
    (sdk3)$ tox -e functional3

    functional3: commands succeeded
    congratulations :)

---

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Examples Tests
-------------

Similar to the functional tests, the examples tests assume that you have a public or private OpenStack cloud that you can run the tests against. In practice, this means that the tests should initially be run against a stable branch of `DevStack <https://docs.openstack.org/devstack/latest/>`_. And like the functional tests, the examples tests connect to an OpenStack cloud using `os-client-config <http://git.openstack.org/cgit/openstack/os-client-config/tree/README.rst>`_. See the functional tests instructions for information on setting up DevStack and os-client-config.

Run
***

In order to run the entire examples test suite, simply run the `tox -e examples` command inside of your source checkout. This will attempt to run every test command under `/openstack/tests/examples/` in the source tree.::

    (sdk3)$ tox -e examples

    ...
    examples: commands succeeded
    congratulations :)
    .. include:: ../../../CONTRIBUTING.rst

3.318 OPS4J Pax Web 2.1.6

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3.336 pcap4j 1.6.0

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3.337 pcs 0.9.162 :5.el7.centos.1

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```

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```
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Ty Coon, President of Vice
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3.338 perl 5.16.3 :294.el7_6

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```perl
use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

# Create test distribution
#-----------------------------------------------#
{
  my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'perl'
  );

  $dist->regen;
  $dist->chdir_in;

  my $mb = $dist->new_from_context();
  isa_ok( $mb, "Module::Build" );
  is( $mb->license, 'perl',
    "license 'perl' is valid"
  );
```
my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",  
  "META license URL is correct" );

}

{
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
is_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',  
  "license 'VaporWare' is valid" );

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/",  
  "META license URL is correct" );

}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2
This module is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
From f5488561bdaab57380bf07e8e66778503a41aca3 Mon Sep 17 00:00:00 2001
From: Father Chrysostomos <sprout@cpan.org>
Date: Sun, 23 Sep 2012 12:42:15 -0700
Subject: [PATCH] =?UTF-8?q?Don=E2=80=99t=20leak=20if=20hh=20copying=20dies?= 
MIME-Version: 1.0 
Content-Type: text/plain; charset=UTF-8 
Content-Transfer-Encoding: 8bit 

When ^H is copied on entering a new scope, if it happens to have been
tied it can die. This was resulting in leaks, because no protections were added to handle that case.

The two things that were leaking were the new hash in hv_copy_hints_hv and the new value (for an element) in newSVsv.

By fixing newSVsv itself, this also fixes any potential leaks when other pieces of code call newSVsv on explosive values.

Petr Pisar: Ported to 5.16.3

---

```
+hv.c       | 6 ++++++
+sv.c       | 7 ++++-
```

```
t/op/svleak.t | 22 ++++++++++++++++++++++++++++++++++--
```

3 files changed, 31 insertions(+), 4 deletions(-)

diff --git a/hv.c b/hv.c
index 3c35341..29d6352 100644
--- a/hv.c
+++ b/hv.c
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 const I32 riter = HvRITER_get(ohv);
 HE * const eiter = HvEITER_get(ohv);

+ENTER;
+SvREFCNT_inc_simple_void_NN(hv);
+
while (hv_max && hv_max + 1 >= hv_fill * 2)
    hv_max = hv_max / 2;
HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 }
HvRITER_set(ohv, riter);
HvEITER_set(ohv, eiter);
+
+SvREFCNT_inc_simple_void_NN(hv);
+LEAVE;
+
    hv_magic(hv, NULL, PERL_MAGIC_hints);
    return hv;
diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644
--- a/sv.c
+++ b/sv.c
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_ register SV *const old)
    Perl_ck_warner_d(aTHX_ packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");
    return NULL;
}
/* Do this here, otherwise we leak the new SV if this croaks. */
SvGETMAGIC(old);
new_SV(sv);

/* SV_GMAGIC is the default for sv_setsv() */
SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games

/* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games */
with SvTEMP_off and SvTEMP_on round a call to sv_setsv.

sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
sv_setsv_flags(sv, old, SV_NOSTEAL);
return sv;

diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
or skip_all("XS::APItest not available");
}
-plan tests => 23;
+plan tests => 24;

# run some code N times. If the number of SVs at the end of loop N is
# greater than (N-1)*delta at the end of loop 1, we've got a leak
@@ -176,3 +176,23 @@ leak(2, 0, sub {
    each $h;
    undef $h;
}} 'tied hash iteration does not leak');
+
+# [perl #107000]
+package hhtie {
+    sub TIEHASH { bless [] }
+    sub STORE { $_[0][0]{$_[1]} = $_[2] }
+    sub FETCH { die if $explosive; $_[0][0]{$_[1]} }
+    sub FIRSTKEY { keys %{$_[0][0]}; each %{$_[0][0]} }
+    sub NEXTKEY { each %{$_[0][0]} }
+
+} leak(2,!!$Config{mad}, sub {
+    eval q`
+    BEGIN {
+        $hhtie::explosive = 0;
+        tie %$H, hhtie;
+        $^H{foo} = bar;
+        $hhtie::explosive = 1;
+    }
+    };
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abstract: 'Build and install Perl modules'
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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3.340 perl-Getopt-Long 2.40 :3.el7

3.341 perl-Git 1.8.3.1-14.el7_5

3.342 perl-Net-Pcap 0.17 :7.el7

3.343 perl-Net-RawIP 0.25 :11.el7

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### 3.347 php 5.4.16-43.el7_4.1

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# -*- makefile -*-
#
# Makefile for BSD systems
#

INCFLAGS += -I${LIBFFI_BUILD_DIR}/include
LOCAL_LIBS += ${LIBFFI} -lpthread

LIBFFI_CFLAGS = ${FFI_MMAP_EXEC} -pthread
LIBFFI_BUILD_DIR = ${.CURDIR}/libffi-${arch}
.if $(srmdir) == "."
LIBFFI_SRC_DIR := $(CURDIR)/libffi
.else
LIBFFI_SRC_DIR := $(srmdir)/libffi
.endif

LIBFFI = $(LIBFFI_BUILD_DIR)/.libs/libffi_convenience.a
LIBFFI_CONFIGURE = $(LIBFFI_SRC_DIR)/configure --disable-static --with-pic=yes --disable-dependency-tracking

$(OBSJS):$(LIBFFI)

$(LIBFFI):
@mkdir -p $(LIBFFI_BUILD_DIR)
@if [ ! -f $(LIBFFI_BUILD_DIR)/Makefile ]; then \ 
echo "Configuring libffi"; \ 
   cd $(LIBFFI_BUILD_DIR) && \ 
   /usr/bin/env CC="$(CC)" LD="$(LD)" CFLAGS="$(LIBFFI_CFLAGS)" GREP_OPTIONS="" \ 
   /bin/sh $(LIBFFI_CONFIGURE) $(LIBFFI_HOST) > /dev/null; \ 
fi
@cd $(LIBFFI_BUILD_DIR) && $(MAKE)

3.348 php-cli 5.4.16-43.el7_4.1
3.349 php-common 5.4.16-43.el7_4.1
3.350 php-pecl-jsonc 1.3.9 :1.el7
3.350.1 Available under license :

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3.351 php-pecl-mongo 1.6.14 :1.el7

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/*/  
+-----------------------------------------------------------------+  
| PHP Version 5 |  
+-----------------------------------------------------------------+  
| Copyright (c) 1997-2014 The PHP Group |  
+-----------------------------------------------------------------+  
| This source file is subject to version 3.01 of the PHP license,  |  
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| available through the world-wide-web at the following url:      |  
| http://www.php.net/license/3_01.txt  |  
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| license@php.net so we can mail you a copy immediately.          |  
+-----------------------------------------------------------------+  
| Author: Omar Kilani <omar@php.net>  |  
+-----------------------------------------------------------------+  
*/

mcon/contrib/md5.c:
/*
 * This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.
 * MD5 Message-Digest Algorithm (RFC 1321).
 *
 * Homepage:
 *
 * Author:
 * Alexander Peslyak, better known as Solar Designer <solar at openwall.com>
 *
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 * (This is a heavily cut-down "BSD license").
 *
 * This differs from Colin Plumb's older public domain implementation in that
 * no exactly 32-bit integer data type is required (any 32-bit or wider
 * unsigned integer data type will do), there's no compile-time endianness
 * configuration, and the function prototypes match OpenSSL's. No code from
 * Colin Plumb's implementation has been reused; this comment merely compares
 * the properties of the two independent implementations.
 *
 * The primary goals of this implementation are portability and ease of use.
 * It is meant to be fast, but not as fast as possible. Some known
 * optimizations are not included to reduce source code size and avoid
 * compile-time configuration.
 */

mcon/contrib/strndup.c:

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*/

3.352 php-process 5.4.16-43.el7_4.1

3.353 php-xml 5.4.16-43.el7_4.1

3.354 picocontainer 2.13.5

3.355 Poi-3.14 3.14
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3.357 poi-ooxml-schemas 3.14

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A. HISTORY OF THE SOFTWARE
==========================

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

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

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

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

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Mersenne Twister
--------------

The :mod:`random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init\_by\_array(init\_key, key\_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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3.367 python 2.7.5 :77.el7_6

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

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

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

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*******************
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*******************

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=-=-=-=-=-=-=-=-=-=-=-=-=-=-=

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

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

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

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Mersenne Twister

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).
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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The `mod:` socket` module uses the functions, `func:` getaddrinfo`, and `func:` getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
----------------------------------

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

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Cookie management
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Execution tracing

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UUencode and UUdecode functions

-----------------------------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

--------------------------

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----------

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-------------

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strtod and dtoa
-------------

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-------

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-----

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3.368 python-argparse 1.2.1 :6.1

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

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

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

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

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

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3.369 python-carbon 0.9.16 :1.el7
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==================
CINDERCLIENT Tests
==================

Unit Tests
=========

Cinderclient contains a suite of unit tests, in the cinderclient/tests/unit directory.

Any proposed code change will be automatically rejected by the OpenStack Jenkins server if the change causes unit test failures.

Running the tests
------------------

There are a number of ways to run unit tests currently, and there's a combination of frameworks used depending on what commands you use. The preferred method is to use tox, which calls ostestr via the tox.ini file. To run all tests simply run::

    tox

This will create a virtual environment, load all the packages from test-requirements.txt and run all unit tests as well as run flake8 and hacking checks against the code.

Note that you can inspect the tox.ini file to get more details on the available options and what the test run does by default.

Running a subset of tests using tox
----------------------------------

One common activity is to just run a single test, you can do this with tox simply by specifying to just run py27 or py34 tests against a single test::

    tox -epy27 -- -n cinderclient.tests.unit.v2.test_volumes.VolumesTest.test_attach
Or all tests in the test_volumes.py file:

    tox -epy27 -- -n cinderclient.tests.unit.v2.test_volumes

For more information on these options and how to run tests, please see the `testr documentation <https://docs.openstack.org/os-testr/latest/>`_.

Run tests wrapper script
------------------------

In addition you can also use the wrapper script run_tests.sh by simply executing:

    ./run_tests.sh

This script is a wrapper around the testr testrunner and the flake8 checker. Note that there has been talk around deprecating this wrapper and this method of testing, it's currently available still but it may be good to get used to using tox or even testr directly.

Documentation is left in place for those that still use it.

Flags
-----

The `run_tests.sh` script supports several flags. You can view a list of flags by doing:

    run_tests.sh -h

This will show the following help information:

Usage: ./run_tests.sh [OPTION]...
Run cinderclient's test suite(s)

  -V, --virtual-env       Always use virtualenv. Install automatically if not present
  -N, --no-virtual-env   Don't use virtualenv. Run tests in local environment
  -s, --no-site-packages  Isolate the virtualenv from the global Python environment
  -r, --recreate-db      Recreate the test database (deprecated, as this is now the default).
  -n, --no-recreate-db   Don't recreate the test database.
  -f, --force            Force a clean re-build of the virtual environment. Useful when dependencies have been added.
  -u, --update           Update the virtual environment with any newer package versions
  -p, --pep8             Just run PEP8 and HACKING compliance check
  -P, --no-pep8          Don't run static code checks
  -c, --coverage         Generate coverage report
  -d, --debug            Run tests with testtools instead of testr. This allows you to use the debugger.
  -h, --help             Print this usage message
  --hide-elapsed         Don't print the elapsed time for each test along with slow test list
--virtual-env-path <path> Location of the virtualenv directory
  Default: $(pwd)
--virtual-env-name <name> Name of the virtualenv directory
  Default: .venv
--tools-path <dir> Location of the tools directory
  Default: $(pwd)

Note: with no options specified, the script will try to run the tests in a virtual environment.
If no virtualenv is found, the script will ask if you would like to create one. If you prefer to run tests NOT in a virtual environment, simply pass the -N option.

Because `run_tests.sh` is a wrapper around testr, it also accepts the same flags as testr. See the documentation for details about these additional flags:
`ostestr documentation <https://docs.openstack.org/os-testr/latest/>`_.

.. _nose options documentation: http://readthedocs.org/docs/nose/en/latest/usage.html#options

Suppressing logging output when tests fail
------------------------------------------

By default, when one or more unit test fails, all of the data sent to the logger during the failed tests will appear on standard output, which typically consists of many lines of texts. The logging output can make it difficult to identify which specific tests have failed, unless your terminal has a large scrollback buffer or you have redirected output to a file.

You can suppress the logging output by calling `run_tests.sh` with the nose flag::

    --nologcapture

Virtualenv
---------

By default, the tests use the Python packages installed inside a virtualenv. (This is equivalent to using the `-V, --virtualenv` flag). If the virtualenv does not exist, it will be created the first time the tests are run.

If you wish to recreate the virtualenv, call `run_tests.sh` with the flag::

    -f, --force

Recreating the virtualenv is useful if the package dependencies have changed since the virtualenv was last created. If the `requirements.txt` or `tools/install_venv.py` files have changed, it's a good idea to recreate the virtualenv.

By default, the unit tests will see both the packages in the virtualenv and
the packages that have been installed in the Python global environment. In
some cases, the packages in the Python global environment may cause a conflict
with the packages in the virtualenv. If this occurs, you can isolate the
virtualenv from the global environment by using the flag:

-s, --no-site packages

If you do not wish to use a virtualenv at all, use the flag:

-N, --no-virtual-env

Gotchas
-------

**Running Tests from Shared Folders**

If you are running the unit tests from a shared folder, you may see tests start
to fail or stop completely as a result of Python lockfile issues. You
can get around this by manually setting or updating the following line in
``cinder/tests/conf_fixture.py``:

```python
CONF['lock_path'].SetDefault('/tmp')
```

Note that you may use any location (not just `''/tmp''`) as long as it is not
a shared folder.

.. rubric:: Footnotes

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

CINDERCLIENT Tests

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

Functional Tests

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

Cinderclient contains a suite of functional tests, in the cinderclient/
tests/functional directory.

These are currently non-voting, meaning that Jenkins will not reject a
patched based on failure of the functional tests. It is highly recommended,
however, that these tests are investigated in the case of a failure.

Running the tests

---------

Run the tests using tox, which calls ostestr via the tox.ini file. To run all
tests simply run:

```
  tox -e functional
```
This will create a virtual environment, load all the packages from test-requirements.txt and run all unit tests as well as run flake8 and hacking checks against the code.

Note that you can inspect the tox.ini file to get more details on the available options and what the test run does by default.

Running a subset of tests using tox
-----------------------------------
One common activity is to just run a single test, you can do this with tox simply by specifying to just run py27 or py34 tests against a single test:

    tox -e functional -- -n cinderclient.tests.functional.test_readonly_cli.CinderClientReadOnlyTests.test_list

Or all tests in the test_readonly_clitest_readonly_cli.py file:

    tox -e functional -- -n cinderclient.tests.functional.test_readonly_cli

For more information on these options and how to run tests, please see the `os-testr documentation <https://docs.openstack.org/os-testr/latest/>`_.

Gotchas
-------
The cinderclient.tests.functional.test_cli.CinderBackupTests.test_backup_create_and_delete test will fail in Devstack without c-bak service running, which requires Swift. Make sure Swift is enabled when you stack.sh by putting this in local.conf:

    enable_service s-proxy s-object s-container s-account

3.371 python-django 1.6.11.6 :1.el7
3.371.1 Available under license :
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Advice for new contributors

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

First steps

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the `CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough explanation.

* **Triage tickets**

If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity with the codebase and the process**

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. Run the tests and make sure they pass on your system. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

* **Keep old patches up to date**

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

* **Write some documentation**

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and
suggest a documentation patch! See also the guide on
`:doc:`writing-documentation`, in particular the tips for
`:ref:`improving-the-documentation`.

.. note::

   The `reports page`_ contains links to many useful Trac queries, including
   several that are useful for triaging tickets and reviewing patches as
   suggested above.

   .. _reports page: https://code.djangoproject.com/wiki/Reports

.. _CLA: https://www.djangoproject.com/foundation/cla/
   .. _Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/cla/faq/
   .. _unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed

Guidelines
----------

As a newcomer on a large project, it’s easy to experience frustration. Here’s
some advice to make your work on Django more useful and rewarding.

* **Pick a subject area that you care about, that you are familiar with, or
  that you want to learn about**

   You don’t already have to be an expert on the area you want to work on; you
   become an expert through your ongoing contributions to the code.

* **Analyze tickets’ context and history**

   Trac isn’t an absolute; the context is just as important as the words.
   When reading Trac, you need to take into account who says things, and when
   they were said. Support for an idea two years ago doesn’t necessarily mean
   that the idea will still have support. You also need to pay attention to who
   *hasn’t* spoken -- for example, if a core team member hasn’t been recently
   involved in a discussion, then a ticket may not have the support required to
   get into trunk.

* **Start small**

   It’s easier to get feedback on a little issue than on a big one. See the
   `easy pickings`_.

* **If you’re going to engage in a big task, make sure that your idea has
  support first**

   This means getting someone else to confirm that a bug is real before you fix
the issue, and ensuring that the core team supports a proposed feature before you go implementing it.

* **Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of the core developers. We can't do it without YOU!

* **Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

* **Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

* **Be rigorous**

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. _easy-pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ
---

1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?**

First off, it's not personal. Django is entirely developed by volunteers (even the core developers), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the |django-developers| mailing list asking for review on the ticket, or to bring it up in the #django-dev IRC channel.
2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself??**

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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3.372 python-django-tagging 0.3.1 :11.el7

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Django Tagging

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---

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3.373 python-glanceclient 2.9.1
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3.374 python-keystoneclient 3.15.0

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3.375 python-lxml 3.2.1 :4.el7

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3.377 python-lxml_PSFv2.x 3.2.1 :4.el7

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

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

    In 1995, Guido continued his work on Python at the Corporation for
    National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
    in Reston, Virginia where he released several versions of the
    software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (see http://www.digicool.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Digital Creations is a sponsoring member of the PSF.

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

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======  Heading 0 (reserved for the title in a document)
-------  Heading 1
~~~~~~~  Heading 2
++++++++  Heading 3
~~~~~~  Heading 4
(Avoid deeper levels because they do not render well.)

CLI Option Guideline

======================
This document describes the conventions of neutron CLI options.

General conventions
---------------------

#. Option names should be delimited by a hyphen instead of a underscore. This is the common guidelines across all OpenStack CLIs.

* Good: ``--ip-version``
* Not Good: ``--ip_version``

#. Use at least one required option for ``*-create`` command. If all options are optional, we typically use ``name`` field as a required option.

#. When you need to specify an ID of a resource, it is better to provide another way to specify the resource like ``name`` or other reasonable field.

#. If an attribute name in API is ``foo_id``, the corresponding option should be ``--foo`` instead of ``--foo-id``.

* It is because we usually support ID and ``name`` to specify a resource.

#. Do not use ``nargs='?'`` without a special reason.

* The behavior of ``nargs='?'`` option for python argparse is bit tricky and may lead to unexpected option parsing different from the help message. The detail is described in the ref:`Background section <background-nargs>` below.

#. (option) Avoid using positional options as much as possible.

* Positional arguments should be limited to attributes which will be required in the long future.

#. We honor existing options and should keep compatibilities when adding or changing options.

Options for boolean value
--------------------------

Use the form of ``--option-name {True|False}``.

* For a new option, it is recommended.
* It is suggested to use ``common.utils.add_boolean_argument`` in an implementation. It allows ``true``/``false`` in addition to ``True``/``False``.
* For existing options, migration to the recommended form is not necessarily required. All backward-compatibility should be kept without reasonable
Options for dict value
----------------------

Some API attributes take a dictionary.

``--foo key1=val1,key2=val2`` is usually used.

This means ``{"key1": "val1", "key2": "val2"}`` is passed in the API layer.

Examples:

* ``--host-route destination=CIDR,nexthop=IP_ADDR`` for a subnet
* ``--fixed-ip subnet_id=SUBNET,ip_address=IP_ADDR`` for a port.

Options for list value
----------------------

Some attributes take a list.

In this case, we usually use:

* Define an option per element (Use a singular form as an option name)
* Allow to specify the option multiple times

For Example, **port-create** has ``--security-group`` option.
``--security-group SG1 --security-group SG2`` generates
``{"security_groups: ["SG1", "SG2"]}`` in the API layer.

This convention applies to a case of a list of dict.
``--allocation-pool`` and ``--host-route`` for a subnet are examples.

Compatibility with extra arguments
-----------------------------------

*extra arguments* supports various types of option specifications.
At least the following patterns needs to be considered when defining
a new option. For more detail, see :ref:`cli_extra_arguments`.

* Normal options with value
* Boolean options : ``--foo True``, ``--bar=False``
* List options : ``--bars list=true val1 val2``, ``--bars val1 val2``
* Dict options : ``--foo type=dict key1=va1,key2=val2``
* List of Dict options : ``--bars list=true type=dict key1=val1,key2=val2,key3=val3,key4=val4``
* ``action=clear``

For normal options with value, there are four patterns to specify an option
as extra arguments.

* ``--admin-state-up True`` (a space between option name and value)
* ``--admin-state-up=True`` (= between option name and value)
* ``--admin_state_up True`` (underscore is used as delimiter)
* ``--admin_state_up=True`` (underscore is used as delimiter)

.. _background:

Background
----------

There are a lot of opinions on which form of options are better or not. This section tries to capture the reason of the current choice.

Use at least one required option
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

As a convention, **neutron** CLI requires one required argument.

If all options are optional in the API level and we have `name` field, we usually use `name` as a required parameter. Requiring at least one argument has the following benefits:

* If we run `neutron *-create` without a required argument, we will have a brief help message without detail option help. It is convenient.
* We can avoid miss operation by just hitting `neutron *-create`. Requiring at least one parameter is a good balance.

Even though we can change this convention to allow to create a resource without `name` field, it will bring confusions to existing users.

There may be opinion that it is inconsistent with API level requirement or Horizon behavior, but even if neutron CLI requires `name` field there is no bad impact on regular users. Considering possible confusion if we change it, it looks better to keep it as-is.

Options for Boolean value
~~~~~~~~~~~~~~~~~~~~~~~~~

* ``--enable-foo``/``--disable-foo`` or similar patterns (including ``--admin-state-down``) is not suggested because we need two exclusive options for one attribute in REST API. It is meaningless.

* It is not recommended to have an option only to specify non-default value. For example, we have ```--shared``` or ```--admin-state-down``` options for net-create. This form only works for ```*create``` and does not work for ```*update```. It leads to having different options for ```*create``` and
A flag option like `--enable-dhcp` (without value) also has a problem when considering the compatibility with *extra argument*. We can specify `--enable-dhcp True/False` or `--enable-dhcp=True/False` in the *extra argument* mechanism. If we introduce `--enable-dhcp` (without value), the form of `--enable-dhcp True/False` cannot be used now. This is another reason we don't use a flag style option for a boolean parameter.

Avoid using nargs in positional or optional arguments
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

The behavior of ``nargs='?'`` option for python argparse is bit tricky. When we use `nargs='?'` and if the order of command-line options is changed then the command-line parser may fail to parse the arguments correctly. Two examples of such failures are provided below.

Example 1:
This example shows how the actual behavior can differ from the provided help message. In the below block, help message at `[5]` says `--bb CC` is a valid format but the argument parsing for the same format fails at `[7]`.

```python
In [1]: import argparse
In [2]: parser = argparse.ArgumentParser()
In [3]: parser.add_argument('--bb', nargs='?')
In [4]: parser.add_argument('cc')
In [5]: parser.print_help()
usage: ipython [-h] [--bb [BB]] cc
positional arguments:
   cc
optional arguments:
   -h, --help  show this help message and exit
   --bb [BB]
In [6]: parser.parse_args('--bb 1 X'.split())
Out[6]: Namespace(bb='1', cc='X')
In [7]: parser.parse_args('--bb X'.split())
usage: ipython [-h] [--bb [BB]] cc
ipython: error: too few arguments
An exception has occurred, use %tb to see the full traceback.
```
Example 2:
This example shows how fragile ``nargs='?'`` can be when user specifies
options in different order from the help message.

.. code-block:: console

In [1]: import argparse
In [2]: parser = argparse.ArgumentParser()
In [3]: parser.add_argument('--a', help='option a')
In [4]: parser.add_argument('--b', help='option b')
In [5]: parser.add_argument('x', help='positional arg X')
In [6]: parser.add_argument('y', nargs='?', help='positional arg Y')
In [7]: parser.print_help()
usage: ipython [-h] [--a A] [--b B] x [y]

positional arguments:
  x            positional arg X
  y            positional arg Y

optional arguments:
  -h, --help   show this help message and exit
  --a A        option a
  --b B        option b

In [8]: parser.parse_args('--a 1 --b 2 X Y'.split())
Out[8]: Namespace(a='1', b='2', x='X', y='Y')

In [9]: parser.parse_args('X Y --a 1 --b 2'.split())
Out[9]: Namespace(a='1', b='2', x='X', y='Y')

In [10]: parser.parse_args('X --a 1 --b 2 Y'.split())
usage: ipython [-h] [--a A] [--b B] x [y]
ipython: error: unrecognized arguments: Y
An exception has occurred, use %tb to see the full traceback.

SystemExit: 2

To exit: use 'exit', 'quit', or Ctrl-D.
To exit: use 'exit', 'quit', or Ctrl-D.

Note: Most CLI users don't care about the order of the command-line
options. Hence, such fragile behavior should be avoided.

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```
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-------  Heading 1
~~~~~~~  Heading 2
+++++++  Heading 3
~~~~~~~  Heading 4
```
(Avoid deeper levels because they do not render well.)

Transition to OpenStack Client

This document details the transition roadmap for moving the neutron client's OpenStack Networking API support, both the Python library and the `neutron` command-line interface (CLI), to the `OpenStack Client (OSC) <https://github.com/openstack/python-openstackclient>`_, and the `OpenStack Python SDK <https://github.com/openstack/python-openstacksdk>`_.

This transition is being guided by the `Deprecate individual CLIs in favour of OSC <https://review.openstack.org/#/c/243348/>`_ OpenStack spec. See the `Neutron RFE <https://bugs.launchpad.net/neutron/+bug/1521291>`_ and `OSC neutron support etherpad <https://etherpad.openstack.org/p/osc-neutron-support>`_ and details below for the overall progress of this transition.

Overview

This transition will result in the neutron client's `neutron` CLI being deprecated and then eventually removed. The `neutron` CLI will be replaced by OSC's networking support available via the `openstack` CLI. This is similar to the deprecation and removal process for the `keystone client's <https://github.com/openstack/python-keystoneclient>`_ `keystone` CLI. The neutron client's Python library won't be deprecated. It will be available along side the networking support provided by the OpenStack Python SDK.

Users of the neutron client's command extensions will need to transition to the `OSC plugin system <https://docs.openstack.org/python-openstackclient/latest/contributor/plugins.html>`_.

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before the `neutron` CLI is removed. Such users will maintain their OSC plugin commands within their own project and will be responsible for deprecating and removing their `neutron` CLI extension.

Transition Steps
----------------

1. **Done:** OSC adds OpenStack Python SDK as a dependency. See the following patch set: https://review.openstack.org/#/c/138745/

2. **Done:** OSC switches its networking support for the `network` command object to use the OpenStack Python SDK instead of the neutron client's Python library. See the following patch set: https://review.openstack.org/#/c/253348/

3. **Done:** OSC removes its python-neutronclient dependency. See the following patch set: https://review.openstack.org/#/c/255545/

4. **In Progress:** OpenStack Python SDK releases version 1.0 to guarantee backwards compatibility of its networking support and OSC updates its dependencies to include OpenStack Python SDK version 1.0 or later. See the following blueprint: https://blueprints.launchpad.net/python-openstackclient/+spec/network-command-sdk-support

5. **Done:** OSC switches its networking support for the `ip floating`, `ip floating pool`, `ip fixed`, `security group`, and `security group rule` command objects to use the OpenStack Python SDK instead of the nova client's Python library when neutron is enabled. When nova network is enabled, then the nova client's Python library will continue to be used. See the following OSC bugs:

   * **Done** `Floating IP CRUD`<https://bugs.launchpad.net/python-openstackclient/+bug/1519502>`

   * **Done** `Port CRUD`<https://bugs.launchpad.net/python-openstackclient/+bug/1519909>`

   * **Done** `Security Group CRUD`<https://bugs.launchpad.net/python-openstackclient/+bug/1519511>`

   * **Done** `Security Group Rule CRUD`<https://bugs.launchpad.net/python-openstackclient/+bug/1519512>`

6. **In Progress:** OSC continues enhancing its networking support.
At this point and when applicable, enhancements to the `neutron` CLI must also be made to the `openstack` CLI and possibly the OpenStack Python SDK. Users of the neutron client's command extensions should start their transition to the OSC plugin system. See the developer guide section below for more information on this step.

7. **In Progress:** Deprecate the `neutron` CLI. Running the CLI after it has been deprecated will issue a warning message:
```
neutron CLI is deprecated and will be removed in the future. Use openstack CLI instead.
```
In addition, no new features will be added to the CLI, though fixes to the CLI will be assessed on a case by case basis.

8. **Not Started:** Remove the `neutron` CLI after two deprecation cycles once the criteria below have been met.

* The networking support provided by the `openstack` CLI is functionally equivalent to the `neutron` CLI and it contains sufficient functional and unit test coverage.

* Neutron Stadium projects, Neutron documentation and DevStack use `openstack` CLI instead of `neutron` CLI.

* Most users of the neutron client's command extensions have transitioned to the OSC plugin system and use the `openstack` CLI instead of the `neutron` CLI.

Developer Guide
---------------
The `neutron` CLI version 6.x, without extensions, supports over 200 commands while the `openstack` CLI version 3.3.0 supports over 70 networking commands. Of the 70 commands, some do not have all of the options or arguments of their `neutron` CLI equivalent. With this large functional gap, a few critical questions for developers during this transition are "Which CLI do I change?", "Where does my CLI belong?", and "Which Python library do I change?" The answer depends on the state of a command and the state of the overall transition. Details are outlined in the tables below. Early stages of the transition will require dual maintenance.

**Which CLI do I change?**

<table>
<thead>
<tr>
<th><code>neutron</code> Command</th>
<th><code>openstack</code> Command</th>
<th>CLI to Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exists</td>
<td>Doesn't Exist</td>
<td><code>neutron</code></td>
</tr>
</tbody>
</table>
**Where does my CLI belong?**

If you are developing an API in any of the `neutron repos`<http://governance.openstack.org/reference/projects/neutron.html> the client-side support must be generally located in either the openstackclient or neutronclient repos. Whether the actual code goes into one or the other repo it depends on the nature of the feature, its maturity level, and/or the depth of feedback required during the development.

The table below provides an idea of what goes where. Generally speaking, we consider Core anything that is L2 and L3 related or that it has been located in the neutron repo for quite sometime, e.g. QoS or Metering, or that it is available in each neutron deployment irrespective of its configuration (e.g. auto-allocated-topology). Any client feature that falls into this categorization will need to be contributed in OSC. Any other that does not, will need to go into neutronclient, assuming that its server-side is located in a neutron controlled repo. This is a general guideline, when in doubt, please reach out to a member of the neutron core team for clarifications.

<table>
<thead>
<tr>
<th>Networking Commands</th>
<th>OSC Plugin</th>
<th>OpenStack Project for <code>openstack</code> Commands</th>
</tr>
</thead>
</table>

| Core | No | python-openstackclient |

| Extension | Yes | python-neutronclient |
| (i.e. neutron stadium) | (`neutronclient/osc/v2/<extension>>`) |

| Other | Yes | Applicable project owning networking resource |

When a repo stops being under neutron governance, its client-side counterpart will have to go through deprecation. Bear in mind that for grandfathered extensions like FWaaS v1, VPNaaS, and LBaaS v1, this is not required as the neutronclient is already deprecated on its own.

**Which Python library do I change?**

<table>
<thead>
<tr>
<th>OpenStack Project for <code>openstack</code> Commands</th>
<th>Python Library to Change</th>
</tr>
</thead>
</table>

**Where does my CLI belong??**
**Important:** The actual name of the command object and/or action in OSC may differ from those used by neutron in order to follow the OSC command structure and to avoid name conflicts. The 'network' prefix must be used to avoid name conflicts if the command object name is highly likely to have an ambiguous meaning. Developers should get new command objects and actions approved by the OSC team before proceeding with the implementation.

The "Core" group includes network resources that provide core `neutron` project features (e.g. network, subnet, port, etc.) and not advanced features in the `neutron` project (e.g. trunk, etc.) or advanced services in separate projects (FWaaS, LBaaS, VPNaaS, dynamic routing, etc.).

The "Other" group applies projects other than the core `neutron` project.

Contact the neutron PTL or core team with questions on network resource classification.

When adding or updating an `openstack` networking command to python-openstackclient, changes may first be required to the OpenStack Python SDK to support the underlying networking resource object, properties and/or actions. Once the OpenStack Python SDK changes are merged, the related OSC changes can be merged. The OSC changes may require an update to the OSC openstacksdk version in the `requirements.txt <https://github.com/openstack/python-openstackclient/blob/master/requirements.txt>` file.

When adding an `openstack` networking command to python-openstackclient, you can optionally propose an `OSC command spec <https://github.com/openstack/python-openstackclient/blob/master/doc/source/contributor/specs/commands.rst>` which documents the new command interface before proceeding with the implementation.

Users of the neutron client's command extensions must adopt the `OSC plugin <https://github.com/openstack/python-openstackclient/blob/master/doc/source/contributor/plugins.rst>` system for this transition. Such users will maintain their OSC plugin within their own project and should follow the guidance in the table above to determine which command to change.

Developer References

* See `OSC neutron support etherpad <https://etherpad.openstack.org/p/osc-neutron-support>`
to determine if an `openstack` command is in progress.
* See `OSC plugin command list <https://docs.openstack.org/python-openstackclient/latest/cli/plugin-commands.html>`_ to determine if an `openstack` plugin command exists.
* See `OSC command structure <https://github.com/openstack/python-openstackclient/blob/master/doc/source/cli/commands.rst>`_ to determine the current `openstack` command objects, plugin objects and actions.
* See `OSC plugin <https://github.com/openstack/python-openstackclient/blob/master/doc/source/contributor/plugins.rst>`_ for information on the OSC plugin system to be used for `neutron` CLI extensions.
* Create an OSC blueprint: https://blueprints.launchpad.net/python-openstackclient/
* Report an OSC bug: https://bugs.launchpad.net/python-openstackclient/+filebug
* Report an OpenStack Python SDK bug: https://bugs.launchpad.net/python-openstacksdk/+filebug

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```
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------- Heading 1
~~~~~~~~~ Heading 2
+++++++++ Heading 3
~~~~~~~ Heading 4
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Client command extension support

```
=================================
```

The client command extension adds support for extending the neutron client while
considering ease of creation. Extensions strongly conform to preexisting neutron commands (/neutron/v2_0/).

A sample extension can be seen at:
neutronclient/neutron/v2_0/contrib/_fox_sockets.py

Minimum requirements from an extension

* NeutronClientExtension subclasses must have a shell_command class variable if the command is to be available to the CLI (shell.py)

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsList

Minimum requirements to use canonical neutron CRUD commands framework

Neutron commands are cliff commands, commands in extension can use their
own way to finish their tasks. But if they want to make use of the canonical
neutron CRUD commands framework, the extension should:

* have a class that subclasses NeutronClientExtension to provide the
  requisite resource name, version support, and resource collection and
  object paths for a resource the commands will process.

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocket

* have a class that subclasses from the ClientExtensionList to provide
  resource object list function. This is because most commands
  need the list function to get object ID via
  neutronclient.neutron.v2_0.__init__.find_resource_by_id.

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsList

* if needed, subclass ClientExtensionUpdate to implement update of the resource
  object.

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsUpdate

* if needed, subclass ClientExtensionDelete to implement deletion of the resource
  object.

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsDelete

* if needed, subclass ClientExtensionShow to get the detail of the resource
  object.

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsShow
Precedence of command loading
-----------------------------

* hard coded commands are loaded first
* external commands (installed in the environment) are loaded then

Commands that have the same name will be overwritten by commands that are
loaded later. To change the execution of a command for your particular
extension you only need to override the execute method.

Currently this extension support is limited to top-level resources.
Parent/child relationships may be added if desired.

neutronclient.extension entry_point
----------------------------------

To activate the commands in a specific extension module, add an entry in
setup.cfg under neutronclient.extension. For example::

    [entry_points]
    neutronclient.extension =
        fox_sockets = neutronclient.neutron.v2_0.contrib._fox_sockets

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=================
Contributor Guide
=================
In the Contributor Guide, you will find information on neutronclient's lower level programming details or APIs as well as the transition to OpenStack client.

.. toctree::
:maxdepth: 2

client_command_extensions
cli_option_guideline
transition_to_osc

3.381 python-novaclient 10.1.0

3.381.1 Available under license:

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Copyright (c) 2011 Rackspace - OpenStack extensions (>= v2.1)
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Contributor Guide
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__ https://git.openstack.org/cgit/openstack/python-novaclient
__ https://launchpad.net/nova
__ https://docs.openstack.org/infra/manual/developers.html#development-workflow

.. toctree::
    :maxdepth: 2

    testing
======
Testing
======

The preferred way to run the unit tests is using ``tox``. There are multiple test targets that can be run to validate the code.

``tox -e pep8``

Style guidelines enforcement.

``tox -e py27``

Traditional unit testing.

``tox -e functional``

Live functional testing against an existing OpenStack instance.

Functional testing assumes the existence of a `clouds.yaml` file as supported by `os-client-config <https://docs.openstack.org/os-client-config/latest>`__. It assumes the existence of a cloud named `devstack` that behaves like a normal DevStack installation with a demo and an admin user/tenant - or clouds named `functional_admin` and `functional_nonadmin`.

Refer to `Consistent Testing Interface`__ for more details.

__ https://git.openstack.org/cgit/openstack/governance/tree/reference/project-testing-interface.rst

3.382 python-ordereddict 1.1 :6.el7

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

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3.385 python-pyasn1 0.1.8

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3.389 python-whisper 0.9.16 :1.el7
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3.390 python2-boto 2.45.0 :3.el7

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3.391 python2-crypto 2.6.1 :15.el7

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

Hi Mark,

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

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

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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

Regards,
- Dwayne

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

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
  by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
  for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
  by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
  for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198]) by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000
DKIM-Signature: v=1; a=rsa-sh256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;
bh=OvxqbYnCg7R6tUN3YmlgFURM3CuHt1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=F2h2bFzpQxyKFZ8BhenniyupGw4ZVlkek9B5k91qKU+51W/TkSGBjj5YZihkJQdKQkLz5f4g8dT6bOME3sEY1j10hix0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EjhRpe+FiV6aoLVOFONWiHfGDghPT1dulWXfVTggB2a
DomainKey-Signature:a=rsa-sha1; q=dns; c=nofws; d=yahoo.com;
h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=r6ShFF5VqQ5Lq+9tcn1xKuo4Rs4IVvXF6fdqOpQrMyRCEfoeblhuTE35grGqlom0JLwM0+mmZwRb6rGkDj763caOAlo8Ect/q1ADW5i5XfVMQaDchTbTqmpsJBmQnTqs9iZ+InrG+3UiwtUSGfX7fhEwmf9P/HBzx9Wp4b3j
Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-YMail-OSG:
FrK8aWMVM1mFjtLpMgUbCLjUbUC.i.JkI4AKUHSFsFn79PbtewAewXJ2ahZGC0IGGCV6oVnG3u.CgqzAffY
4vZSnfTT8wnCKzZNZg6k.XUc3ipo_6e.92T1j4p8Mx5friGu1npNF5nXPwcQ7aRtEs7jGoWWJVJYVyt1p50cLSUFS
bZ72pa8P1Yoe_xSzsf30AgRSH5fCrbFCC8sHPCwuL3YhasbHmkWfteSS.x6gEcBaxf03oz4FeDb5mpj54g11X
qng8h_TmzX9g8Bn9g_3fJ4wSXm6g6.tohlYfXcUozx4j036wyWpTKPWeiUQAaN83Sv_bj_Ghxw--
Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)
From: M Moraes <markmoraes@yahoo.com>
Reply-To: moraes@computer.org
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Status: RO
X-Status: A
Content-Length: 3222

Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.
Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/. People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.

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```

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- Dwayne

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

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Date: Mon, 20 Apr 2009 20:01:37 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Thanks a lot, and don't worry about not responding to previous emails. I
do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

> Hi Dwayne.
>
> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
>
> Regards,
> Mark.
>
> --- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:
>
> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am working on a new release at http://www.pycrypto.org/.
> People often ask me what license PyCrypto is covered by, if
> it's GPL-compatible, etc. Right now, I'm not really sure
what to tell them.
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Regards,
    - Dwayne
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-- Dwayne C. Litzenberger <dlitz@dlitz.net>
   Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On November 23, 2008, you wrote:

>Hi Wim,

--
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
> 
> I understand that you have made contributions to PyCrypto. May I, on
> your behalf, dedicate to the public domain all your contributions to
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Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
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might have wandered in there under an unclear open sourcish license,
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Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnAlU8nN8n93LBAQLp/gQAh7x8Av1mstc2kxEJDWTm26PTAZxMz4B
FekthD0zkgxgc558oMGGeexMVn8aw+1BHg0YD85gsntIDzkcQtb+BR/xAv15zKyA
J/Mn/I+l6ekQj3juh8IPHLAdudOXM9Rtguas/yR+Doa0q0xOPKOBx+/5+t1ILJtBcZ
wrPEa9ou9s=
=zSY9

-----END PGP SIGNATURE-----
From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: "A. M. Kuchling" <amk@amk.ca>
Subject: PyCrypto license clarification
Message-ID: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: multipart/signed; micalg=pgp-sha1;
protocol="application/pgp-signature"; boundary="YiEDa0DAkWcTcVeE4"
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928C3C1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
Hi Andrew,

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Regards,
- Dwayne

---

Dwayne C. Litzenberger <dlitz@dlitz.net>

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

--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
iEYEARECAAYFAkko52IAcglQHB0G4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ
yloAn33a3ZjkeyJaTbzEqImOEW8JGpf
=aBEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id D632D10111
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

The intention is that it be public domain.

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

You may.

--amk

From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>
User-Agent: Mutt/1.5.13 (2006-08-11)
Status: RO
Content-Length: 537
Lines: 15
Hi Barry,

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

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

===================================================================
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

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is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.

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

Regards,
- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

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

From barry@python.org Mon Mar  2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
    for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 11:29:39 -0500 (EST)
    Received: from localhost (localhost [127.0.0.1])
        by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
    for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 10:29:39 -0600 (CST)
    Received: (vmailmgr-postfix 8668 invoked by uid 1003);  2 Mar 2009 10:29:39 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
        envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
    Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
        by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
    for <dlitz@dlitz.net>; Mon,  2 Mar 2009 10:29:38 -0600 (CST)
    Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
        by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
    for <dlitz@dlitz.net>; Mon,  2 Mar 2009 11:29:35 -0500 (EST)
    Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
From: Barry Warsaw <barry@python.org>
To: Dwayne C. Litzenberger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
Content-Type: text/plain; charset=US-ASCII; format=flowed; delsp=yes
Content-Transfer-Encoding: quoted-printable
Mime-Version: 1.0 (Apple Message framework v930.3)
Subject: Re: PyCrypto license clarification
Date: Mon, 2 Mar 2009 11:29:34 -0500
References: <20090301024509.GA13195@rivest.dlitz.net>
X-Pgp-Agent: GPGMail d55 (v55, Leopard)
X-Mailer: Apple Mail (2.930.3)
Status: RO
Content-Length: 869
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=
> working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important =20=
Python library.

> I understand that you have made contributions to PyCrypto. May I, =20=
> on your behalf, dedicate to the public domain all your contributions =20=
> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

Hi Paul,

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

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I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
  - Dwayne

--
From paulswartz@gmail.com Mon Aug 3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
  by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
  by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)
Delivered: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in
'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched))
receiver=goedel.dlitz.net; identity=mfrom; envelope-
from="paulswartz@gmail.com”; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
  by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)
Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3
  for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=gmail.com; s=gamma;
h=domainkey-signature:mime-version:received:in-reply-to:references
  :from:date:message-id:subject:to:content-type
  :content-transfer-encoding;
b=A0RHBi0TntrhK55q0JH3WYbkZ+b0cuPeuoKA4vApWcc=;
b=gyTqkRhKlHadFKIZCBwSbnMNVDaq1PW1bhyC0EvxPskaoHr3HAR96MWQNBaPu40Ac
  Vn55qIqTodm4e9z1UEEm6Mwzo9kqi/Qw0L/SLib6DiQEeNqo/eHyqPmuVswitaYWNAyMJ
  Y9++76rGqzydALsfvmwwv7Q3/bEmjVTr0tQE=
DomainKey-Signature: a=rsa-sha1; c=nofws;
d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references:from:date:message-id:subject:to
  :content-type:content-transfer-encoding;
b=jze7KSMkUGiIfVCXKXaaXMi5NsAtgdMQOtVZZfRNYG6y68xOd2xejyiy2r3fT6Nv6
  Q3opUMsT96Q6zjZN55w46kTh2uBTNz4d3Nwe1EWNJnG3xciRqu/mXPfp8AzPI3CefL
  1ornJML1eQ2xyuZA73jem+SJtfdHUcSD1Ubg1=
MIME-Version: 1.0
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,
  03 Aug 2009 09:13:43 -0700 (PDT)
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
From: Paul Swartz <paulswartz@gmail.com>
Date: Mon, 3 Aug 2009 12:13:43 -0400
Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:

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

That's great!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=
blic
> domain all your contributions to PyCrypto, with the following notice?
> 
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
> Yes, that's fine. Good luck with the new release!

-p
--=20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
> >> Hi Paul,
> >>
> >> I am the new maintainer of the Python Cryptography Toolkit, and I am
> >> working on a new release at http://www.pycrypto.org/.
> >
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> >>
> >> =======================================================================
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> >> to exercise all rights associated with the contents of this file for
> >> any purpose whatsoever. No rights are reserved.
> >> =======================================================================
> >
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=======================================================================

Regards,
- Dwayne

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

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 03:08:32 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 2315B40583
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 01:08:32 -0600 (CST)
Received: (vmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
for <dlitz@dlitz.net>; Tue,  5 May 2009 01:08:30 -0600 (CST)
Received: (qmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
for <dlitz@dlitz.net>; Tue,  5 May 2009 01:08:30 -0600 (CST)
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envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
for <dlitz@dlitz.net>; Tue,  5 May 2009 01:08:30 -0600 (CST)
Received: (qmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
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Regards,
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--amk
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Regards,
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--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Excellent! Thank you!

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>>
>> >> =USTER--------------------------------------------------------------------
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>> warranty of fitness for use or suitability for any purpose, express
>> or implied. Use at your own risk or not at all.
>>
>> >> =USTER--------------------------------------------------------------------
>>
>> Incorporating the code into commercial products is permitted; you do
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>>
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>>
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>> extent that dedication to the public domain is not available, everyone
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> >
> > =
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> > The contents of this file are dedicated to the public domain. To
> > the
> > extent that dedication to the public domain is not available,
> > everyone
> > is granted a worldwide, perpetual, royalty-free, non-exclusive

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

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
Date: Mon, 16 Feb 2009 12:58:00 -0800
From: Robey Pointer <robey@lag.net>
Subject: Re: PyCrypto license clarification
To: Dwayne C. Litzenberger <dlitz@dlitz.net>

Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)
Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

> For the next PyCrypto release, I would like to take steps to move
> toward a clearer licensing regime. I am asking as many copyright
> holders as I can find if I can release PyCrypto under something
> clearer and more standard. Below, I have quoted a public domain
> dedication that was recommended in _Intellectual Property and Open
> Source: A Practical Guide to Protecting Code_, by Van Lindberg. I
> have already contacted A. M. Kuchling, and he has approved the
> following dedication for his contributions.
> >
> > May I, on your behalf, dedicate to the public domain all your
> > contributions to PyCrypto, with the following notice?
> >
> >
> > =
> >
> > The contents of this file are dedicated to the public domain. To
> > the
> > extent that dedication to the public domain is not available,
In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQClQmYYuVODvIlyLg0hgCI9LAbQ
SH8AoLJgaxqIli7/ZYDc+/Cd8VO0xLbr
=Mv6g
-----END PGP SIGNATURE-----

00INDEX This file
LICENSE.orig Original (deprecated) license for the Python Cryptography Toolkit
LICENSE.libtom LICENSE file from LibTomCrypt
stmts/ Statements by contributors

A. HISTORY OF THE SOFTWARE

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

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

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

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

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<th>Owner</th>
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</tbody>
</table>

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
the GPL. All Python licenses, unlike the GPL, let you distribute
a modified version without making your changes open source. The
GPL-compatible licenses make it possible to combine Python with
other software that is released under the GPL; the others don't.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

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

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---------------------------------------

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---------------------------------------

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Accept
licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis’s public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

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Exception:

- Portions of HMAC.py and setup.py are derived from Python 2.2, and
are therefore Copyright (c) 2001, 2002, 2003 Python Software Foundation (All Rights Reserved). They are licensed by the PSF under the terms of the Python 2.2 license. (See the file LEGAL/copy/LICENSE.python-2.2 for details.)

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Note that the export or re-export of cryptographic software and/or source code may be subject to regulation in your jurisdiction.

From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
    for <dlitz@dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
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    by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA
    for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
    Received: (vmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)
    Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])
    by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088
    for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)
    Received: from stampitconsult.co.uk (stampitconsult.co.uk
        [193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS
        15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;
        Thu, 28 Aug 2008 01:45:02 +0100
    To: crypt@bis.doc.gov,
       enc@nsa.gov,
       web_site@bis.doc.gov,
       pycrypto@lists.dlitz.net,
       PYTHON-CRYPTO@NIC.SURFNET.NL,
       dlitz@dlitz.net
    Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net designates 64.5.53.201 as permitted sender) identity=mailfrom;
    client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;
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    Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100
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    for <post@stamper.itconsult.co.uk>; Wed, 27 Aug 2008 18:42:56 -0600 (CST)
    Received: by rivest.dlitz.net (Postfix, from userid 1000)
    id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT)
-----BEGIN PGP SIGNED MESSAGE-----

########################################################
# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
# dlitz@dlitz.net
# requested that this message be sent to:-
# crypt@bis.doc.gov
# enc@nsa.gov
# web_site@bis.doc.gov
# pycrypto@lists.dlitz.net
# PYTHON-CRYPTO@NIC.SURFNET.NL
# dlitz@dlitz.net
#
# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
#
# CAUTION: while the message may well be from the sender
# indicated in the "From:" header, the sender
# has NOT been authenticated by this service
#
########################################################

-----END PGP SIGNED MESSAGE-----
For information about the Stamper service see
http://www.itconsult.co.uk/stamper.htm

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

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

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

(Sorry for spamming the lists, but I want there to be a record of this.)

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

-----BEGIN PGP SIGNATURE-----
Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978
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-----END PGP SIGNATURE-----

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux
kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

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=== EOF ===

00INDEX                 - This file
tsu-notify.mbox         - Notification sent per U.S. export regulations
copy/                   - Copyright info & public-domain dedications

From dlitz@dlitz.net Sat Feb 28 23:24:14 2009
Date: Sat, 28 Feb 2009 23:24:14 -0500
Hi Jeethu,

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

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

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

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?
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Regards,
- Dwayne

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

From jeethurao@gmail.com Sun Mar  8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9
    for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 17:28:16 -0400 (EDT)
    Received: from localhost (localhost [127.0.0.1])
        by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
    for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 15:28:15 -0600 (CST)
    Received: (vmailmgr-postfix 5011 invoked by uid 1003);  8 Mar 2009 15:28:15 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.128.0/17 matched) receiver=goedel.dlitz.net; identity=mfrom; envelope-from=¨jeethurao@gmail.com¨; helo=rv-out-0708.google.com; client-ip=209.85.198.249
    Received: from rv-out-0708.google.com (unknown [209.85.198.249])
        by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7
        for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)
    DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
        d=dlitz.com; s=gamma;
        h=domainkey-signature:mime-version:received:in-reply-to:references
            :date:message-id:subject:from:to:content-type;
        bh=YWx9U32WCU/kSRqkh1waO2yJQBUs4Yv5ml20U6mI/g=
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    DomainKey-Signature: a=rsa-sha1; c=nofws;
        d=dlitz.com; s=gamma;
        h=mime-version:in-reply-to:references:date:message-id:subject:from:to
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.
I don't really check this email address all that often, please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> > I am the new maintainer of the Python Cryptography Toolkit, and I am
> > working on a new release at http://www.pycrypto.org/.
> > >
> > > People often ask me what license PyCrypto is covered by, if it's
> > > GPL-compatible, etc. Right now, I'm not really sure what to tell them. The
> > > text in the current LICENSE file (quoted below) is not entirely clear on the
> > > point of whether distributing modified versions is allowed. (It says
> > > "distribute and use", but not "modify").
> > >
> > >=================================================================================
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> > > dissemination and usage except those imposed by the laws of your
> > > country of residence. This software is provided "as is" without
> > >
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Regards,

- Dwayne

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

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

---

Jeethu Rao

--000e0cd209d0e5a3d40464a23054
Content-Type: text/html; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

Please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger wrote:

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/. People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.

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Regards,

- Dwayne

--

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

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

--000e0cd209d0e5a3d40464a23054--

3.392 python2-cryptography 1.7.2

3.393 python2-psutil 5.2.2

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3.394 python2-rsa 3.4.1 :1.el7
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3.395 python2-simplejson 3.10.0 :1.el7
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### 3.396 pytz 2015.4

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### 3.397 pyudev 0.21 :0dev_20160822-py2.6

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3.398 qdox-1.6.1-1jpp.ep1.5.el5 1.6.1

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3.399 qemu-img 1.5.3-160.el7_6.2

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From 04a8a3d76b171deb5eaf8318591e5cfaea3cc843 Mon Sep 17 00:00:00 2001
From: Eduardo Habkost <ehabkost@redhat.com>
Date: Thu, 23 Feb 2017 14:29:44 +0100
Subject: [PATCH 14/17] target-i386: Loop-based copying and setting/unsetting of feature words
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
Now that we have the feature word arrays, we don't need to manually copy each array item, we can simply iterate through each feature word.

```
/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $ */

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/*      */
/*      */
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */
```

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* @(#)mman.h 8.2 (Berkeley) 1/9/95

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */
#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7

*/

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*      @(#)mman.h   8.2 (Berkeley) 1/9/95
*/
#define TARGET_NETBSD_MAP_INHERIT    0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED    0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED       0x0800 /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK      0x2000 /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK    0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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*
*      @(#)mman.h      8.1 (Berkeley) 6/2/93
*/

#define TARGET_OPENBSD_MAP_INHERIT      0x0080  /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND      0x0100  /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED      0x0400  /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK      0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK          0x3ff7

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TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules
SUBDIRS=
ifeq ($(SNK_BIOSEMU_APPS), 1)
SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)

all :
  for subdir in $(SUBDIRS) ; do $(MAKE) -C $${subdir} || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
  for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $${subdir} $@ ; done
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<one line to give the program's name and a brief idea of what it does.>
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(For example, a function in a library to compute square roots has...
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Message-Id: <4a988f436f785fa9349ba66af0d44e26b9475af.1389014116.git.minovotn@redhat.com>
In-Reply-To: <c8cc35838d42aa286242772d97e3a9be7bb786ba.1389014116.git.minovotn@redhat.com>
References: <c8cc35838d42aa286242772d97e3a9be7bb786ba.1389014116.git.minovotn@redhat.com>
From: Paolo Bonzini <pbonzini@redhat.com>
Date: Mon, 9 Dec 2013 14:09:21 +0100
Subject: [PATCH 33/50] block/iscsi: updated copyright

RH-Author: Paolo Bonzini <pbonzini@redhat.com>
Message-id: <1386598178-11845-36-git-send-email-pbonzini@redhat.com>
Patchwork-id: 56072
O-Subject: [RHEL 7.0 qemu-kvm PATCH 35/52] block/iscsi: updated copyright
Bugzilla: 1007815
RH-Acked-by: Jeffrey Cody <jcody@redhat.com>
RH-Acked-by: Fam Zheng <famz@redhat.com>
RH-Acked-by: Stefan Hajnoczi <stefanha@redhat.com>

From: Peter Lieven <pl@kamp.de>

added myself to reflect recent work on the iscsi block driver.

Signed-off-by: Peter Lieven <pl@kamp.de>
Signed-off-by: Paolo Bonzini <pbonzini@redhat.com>
Signed-off-by: Stefan Hajnoczi <stefanha@redhat.com>
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3.400 qemu-img 1.5.3-156.el7_5.3

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# -*- makefile -*-
# Makefile for BSD systems

INCFLAGS += -I${LIBFFI_BUILD_DIR}/include
LOCAL_LIBS += ${LIBFFI} -lpthread
LIBFFI_CFLAGS = ${FFI_MMAP_EXEC} -pthread
LIBFFI_BUILD_DIR = ${.CURDIR}/libffi-${arch}

.if ${srcdir} == "."
LIBFFI_SRC_DIR := ${.CURDIR}/libffi
.else
LIBFFI_SRC_DIR := ${srcdir}/libffi
.endif

LIBFFI = ${LIBFFI_BUILD_DIR}/.libs/libffi_convenience.a
LIBFFI_CONFIGURE = ${LIBFFI_SRC_DIR}/configure --disable-static --with-pic=yes --disable-dependency-tracking

$(OBJS):$(LIBFFI)

$(LIBFFI):
@mkdir -p $(LIBFFI_BUILD_DIR)
@if ! -f $(LIBFFI_BUILD_DIR)/Makefile ; then 
  echo "Configuring libffi"; 
  cd $(LIBFFI_BUILD_DIR) && 
  /usr/bin/env CC="${CC}" LD="${LD}" CFLAGS="${LIBFFI_CFLAGS}" GREP_OPTIONS="" 
  /bin/sh $(LIBFFI_CONFIGURE) $(LIBFFI_HOST) > /dev/null; 
fi
@cd $(LIBFFI_BUILD_DIR) && $(MAKE)

3.401 quartz 1.6.2
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

   a) The modified work must itself be a software library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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That's all there is to it!
3.408 rpm-libs 4.11.3

3.409 rpm-python 4.11.3

3.410 rsync 3.1.2 :6.el7_6.1

3.410.1 Available under license:

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Version 3, 29 June 2007

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

TERMS AND CONDITIONS

0. Definitions.

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

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A "covered work" means either the unmodified Program or a work based on the Program.

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

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

The "System Libraries" 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 "Major Component", 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.

The "Corresponding Source" 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'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.

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

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

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b) 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 "keep intact all notices".

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invalidate such permission if you have separately received it.

d) 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.

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 "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation'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.

6. Conveying Non-Source Forms.

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:

a) 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.

b) 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.

c) 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.

d) 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
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A separable portion of the object code, whose source code is excluded
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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 ROM).

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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.

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enc/utf_8.c
enc/windows_1251.c

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http://www.geocities.jp/kosako3/oniguruma/
http://www.ruby-lang.org/cgi-bin/cvsweb.cgi/oniguruma/
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random.c

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A C-program for MT19937, with initialization improved 2002/2/10.
Coded by Takuji Nishimura and Makoto Matsumoto.
This is a faster version by taking Shawn Cokus's optimization,
Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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missing/hypot.c:
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missing/isnan.c:
missing/lgamma_r.c:
missing/memcmp.c:
missing/memmove.c:
missing/strchr.c:
missing/strstr.c:
missing/strtol.c:
missing/tgamma.c:
ext/digest/sha1/sha1.[ch]:

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/* Bison implementation for Yacc-like parsers in C*/


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/* C LALR(1) parser skeleton written by Richard Stallman, by
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variables, as they might otherwise be expanded by user macros.
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3.413 ruby-irb 2.0.0.648-33.el7_4

3.414 ruby-libs 2.0.0.648-33.el7_4

3.415 rubygem-bigdecimal 1.2.0-33.el7_4

3.416 rubygem-io-console 0.4.2-33.el7_4

3.417 rubygem-json 1.7.7-33.el7_4
3.418 rubygem-psych 2.0.0-33.el7_4

3.419 rubygem-rdoc 4.0.0-33.el7_4

3.420 rubygems 2.0.14.1-33.el7_4

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Public License instead of this License. But first, please read
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3.429 simplejson 3.7.3

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3.431 six 1.11.0

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3.432 slf4j 1.7.25

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3.435 slf4j-log4j12 1.7.7

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1.0.0

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3.464 systemd-libs 219-42.el7_4.7

3.465 teamd 1.27

3.466 The Streaming API for XML - Reference Implementation 1.2.0

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 * $Id: XmlChars.java,v 1.1 2004/08/19 05:30:22 aslom Exp $
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3.471 validation-api 1.0.0.GA

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3.472 vcversioner 2.16.0.0

3.473 velocity 1.6.3

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3.476 Vue-validator 2.1.5

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3.478 warlock 1.3.0

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3.489 xmlParserAPIs 2.6.0

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3.491 xstream 1.4.2

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include/wintdint.h is included only for Windows Client support, as follows:
ISO C9x compliant stdint.h for Microsoft Visual Studio
Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124

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