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Apache log4j

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1.3 apache-log4j 1.2.16

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<link rel="stylesheet" href="/layout.min.css" media="screen" />
<link rel="stylesheet" href="/print.min.css" media="print" />
<!-- end of server/head-include-1.html -->

<!-- Parent-Version: 1.79 -->
<title>GNU Lesser General Public License v3.0
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<link rel="alternate" type="application/rdf+xml"
 href="/licenses/lgpl-3.0.rdf" />
<!-- begin translist file -->
<link rel="alternate" type="text/html"
 href="/licenses/lgpl-3.0.html" hreflang="x-default" />
<link rel="alternate" type="text/html" lang="en" hreflang="en"
 href="/licenses/lgpl-3.0.en.html" title="English" />
<link rel="alternate" type="text/html" lang="ca"
 hreflang="ca" href="/licenses/lgpl-3.0.ca.html" title="català" />
<link rel="alternate" type="text/html" lang="de"
 hreflang="de" href="/licenses/lgpl-3.0.de.html" title="Deutsch" />
<link rel="alternate" type="text/html" lang="fr"
 hreflang="fr" href="/licenses/lgpl-3.0.fr.html" title="français" />
<link rel="alternate" type="text/html" lang="ja"
 hreflang="ja" href="/licenses/lgpl-3.0.ja.html" title="" />
<link rel="alternate" type="text/html" lang="nl"
 hreflang="nl" href="/licenses/lgpl-3.0.nl.html" title="Nederlands" />
<link rel="alternate" type="text/html" lang="ru"
 hreflang="ru" href="/licenses/lgpl-3.0.ru.html" title="" />
<link rel="alternate" type="text/html" lang="uk"
 hreflang="uk" href="/licenses/lgpl-3.0.uk.html" title="" />
<!-- end translist file -->

<!-- start of server/banner.html -->
<!-- start of head-include-2.html -->
<meta name="viewport" content="width=device-width, initial-scale=1" />
<!-- end of head-include-2.html -->
</head>
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1.11 commons-beanutils 1.9.3

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<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">
<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
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<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

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</head>

<body>
<!-- Navigation -->
<header>
<nav class="navbar navbar-default navbar-fixed-top">
<div class="container">
<div class="navbar-header">
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo&nbsp;<a href="/licenses/">Licenses</a></div>
<ul class="nav navbar-nav navbar-right">
<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
<ul class="dropdown-menu" role="menu">
<li><a href="/foundation/">Overview</a></li>
<li><a href="/foundation/members.html/">Members</a></li>
<li><a href="/foundation/how-it-works.html/">Process</a></li>
<li><a href="/foundation/sponsorship.html/">Sponsorship</a></li>
<li><a href="/foundation/glossary.html/">Glossary</a></li>
<li><a href="/foundation/preFAQ.html/">FAQ</a></li>
<li><a href="/foundation/contact.html/">Contact</a></li>
</ul>
</li>
<li><a href="/index.html#projects-list/">Projects</a></li>
</ul>
</div>
</div>
</nav>
</header>

<content>

</content>

</body>
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      </div>
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        <h5 class="white">Community</h5>
        <ul class="list-unstyled white" role="menu">
          <li><a href="http://community.apache.org/">Overview</a></li>
          <li><a href="/foundation/conferences.html">Conferences</a></li>
          <li><a href="/community.apache.org/gsoc.html">Summer of Code</a></li>
          <li><a href="/community.apache.org/newcomers/">Getting Started</a></li>
          <li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
          <li><a href="/travel/">Travel Assistance</a></li>
          <li><a href="/foundation/getinvolved.html">Get Involved</a></li>
          <li><a href="http://community.apache.org/newthefa.html">Community FAQ</a></li>
          <li><a href="/memorials/">Memorials</a></li>
        </ul>
      </div>
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        <h5 class="white">Innovation</h5>
        <ul class="list-unstyled white" role="menu">
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      </div>
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1.16 commons-lang 2.6

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1.23 HttpCore 4.3.2

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1.24 HttpCore 4.2.4

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1.27 jackson-core-asl 1.9.13

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1.28 jackson-databind 2.9.8

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1.31 jackson-mapper-asl 1.9.13

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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.
     *
     * <p>
     * This class is essentially implemented as a wrapper around an
     * {@link IMarkerFactory} instance bound at compile time.
     *
     * <p>
     * Please note that all methods in this class are static.
     *
     * @author Ceki G"u\uml;l\c{c}"u
     */

    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 the name of the Marker object to return.
 * @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 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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</module>

<module name='log4j' licenseType='apache-2.0' version='1.2.14' projectHome='http://logging.apache.org/' description='Java logging framework (runtime)'>
  <jar name='log4j.jar' />
</module>

<module name='serializer' licenseType='apache-2.0' version='1.6.5' projectHome='http://ant.apache.org/' description='ANT (compile time), needed for generation of test reports'>
  <jar name='serializer.jar' />
</module>

<module name='testng' licenseType='apache-2.0' version='6.8' projectHome='http://www.testng.org'
description='Used for unit testing'>
<jar name='testng-6.8.jar' />
</module>

<module name='xalan'
    licenseType='apache-2.0'
    version='2.4.D1'
    projectHome='http://xml.apache.org/xalan-j/'
    description='Xalan-Java is an XSLT processor for transforming XML documents.
    Used to generate HTML test reports from XML (testing time)'>
    <jar name='xalan.jar' />
</module>
</thirdparty-licenses>

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JUnit test library (junit-3.8.1.jar)

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-- activemq-web
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2.6 ant-launcher 1.8.1

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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 {
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.
- **BCodec**: Identical to the Base64 encoding defined by RFC 1521 and allows a character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.
- **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.
- **Soundex**: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.

Fixed bugs:

- **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".

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-The commons-codec team

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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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2.22 asn1crypto 0.24.0

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2.23 aspectjrt 1.8.7

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    <xsl:text>&#10;</xsl:text>
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      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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

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2.30 bind-libs-lite 9.9.4-51.el7_4.2

2.31 bind-license 9.9.4-51.el7_4.2

2.31.1 Available under license:

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- 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 any more (#1294506)- Added GeoIP support (#1220594)- Added support for CAA 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 SPF resource records check to comply with RFC7208 (#1121564)
- 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 (#1221180)- Install config for tmppfiles 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-utilities 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 workers and client objects number configurable (#1098959)
- 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 rbtdb 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-multilib-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 ntsupdate when processing ".r" parameter (#949544)- ship dns/rrl.h in -devel subpkg- update to 9.9.3rc1
- bind-96-libtool2.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 ARM to %docdir- include rate limiting patch-Corrected IP addresses in named.ca (#901741)
- 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-rh16164.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 libdh.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)- iniscript: 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-rh6999951.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-rerset"- update to 9.9.0rc2
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- doc/rfc and doc/draft are no longer shipped in tarball- retire initscript in favour of systemd unit files (#719419)- update to 9.9.0rc1- ship dns/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- initscript should terminate only the correct "named" process (#622785)- fix "krb5-self" update-policy rule processing- update to 9.7.2-P3- added tmpfiles.d support (#656550)
- removed old PID checking in initscript- 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-keysdirdir.patch- update to 9.7.1b1
- make /var/named/dynamic as a default directory for managed DNSSEC keys
- add patch to get "managed-keys-directory" 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) [jgorigi]- 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 keys- 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- rebuilt 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 useless bind-9.3.3rc2-mdakey.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/dnsssec- add DNSSEC support to initscript, enabled it per default
- add requires dnsec-conf- fire away libbind, it is now separate package- fixed some read buffer overflows (upstream)- Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild- update the patch for dynamic loading of database backends
- include iterated_hash.h- rebuild for dependencies- rebuild against new openssl- 9.6.0-P1 release (CVE-2009-0025)- Happy new year
- 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-rh454783.patch
- bind-9.5-edns.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 fPIE on sparcv9/sparcv6 (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-rev-race.patch because upstream doesn't want it- update default named.conf statements (#452708)- some compat changes to fix building on RH64- 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 9.5.0rc1
- 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-rev-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 -fno-caplath 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 eds patch again (#275091)- removed bind-9.3.3-eds.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 initscript 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)- initscript 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 initscript (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 initscript. 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 freed
- minor cleanup in caching-nameserver's config file
- fixed race-condition in dbus code (#235809)
- added forgotten restorecon statement in bind-chroot-admin- removed DEBUGINFO option because with this
  option (default) was bind
  built with -O0 and without this flag no debuginfo package was produced.
  (I want faster bind => -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 config
  (#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: rhbz#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
co. 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.rc3, 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.rc2)- 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 -
  tmppfile 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 seleninux 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: covery 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. nsupdate fix
o misc. tests fixes- and actually put the devel symlinks in the right subpackage- rebuild for -devel deps- apply
upstream patch for ncache_adderesult 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_adderesult 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
  and more .spec file cleanup
- 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
- major .spec file cleanup- bump again for double-long bug on ppc(64)- regenerate redhat_doc patch for non-DBUS
builds
- allow dbus builds to work with dbus version < 0.6 (bz #179816)- try supporting without dbus support- Rebuild for
new gcc, glibc, glibc-kernheaders- fix bug 177854: temporary fix for broken kernel-2.6.15-1854+
/proc/net/if_inet6 format- Upgrade to 9.3.2, released today- fix bug 176100: do not Require: perl just 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 SetForwards- 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 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 isc_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
   `[no]fail' 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 mdc
- Fix bug 155848: add NOTES section to named.8 man-page with info on all Red Hat BIND quirks / SELinux DDNS / slave zone file configuration
- D-BUS patches NOT applied until dhcobb 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 `%post'; 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 V Servers- 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 rhel 3.0 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-
        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 conderstart- 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- rebuilt- 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 libiscc, lib isccfg 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, automake (#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 fprintf- 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 %postun script- 9.1.0b3- Add named.conf man page from bind8 (#23503)- Make
  /etc/rndc.conf and /etc/sysconfig/named noreplace
- 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/named isn't writable
  by the user we're running as. (Bug #20665)- Fix reverse lookups (#22272)
- Run ldconfig in %post utils- 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 initscript (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 uninstall 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 unseting SRPM_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/sbin/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/ndc 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 buildroot
- patched bin/named/ns_udp.c to use <libelf/nlist.h> for include
  on Redhat 5.0 instead of <nlist.h>32:9.9.4-51.el7_4.2bind-license-
  9.9.4COPYRIGHT/usr/share/doc/9.9.4-02 -g -pipe -Wall -Wp,-
  D_FORTIFY_SOURCE=2 -fexceptions -fstack-protector-strong --param=ssp-buffer-size=4 -grecord-gcc-switches
  cpioxz2aarch64-redhat-linux-gnudirectoryUTF-8 Unicode text?7zXZ
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3g:*(XG %
If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into

2.32 bind-utils 9.9.4-51.el7_4.2

2.33 binutils 2.27 :34.base.el7

2.33.1 Available under license:

(This file is under construction.)*- text -*-.

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated “know” assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn’t been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error
checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support.
that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.
Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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2.40 canvg 1.0.0

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2.42 certifi 2018.1.18

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Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1
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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

2.43 cffi 1.11.4

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2.44 chardet 3.0.4

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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 documentation:

```
$ make docs
  (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
  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.

  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 cliff 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::

$ tox -e py27

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

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

.. _developer-templates:

2.48 cmd2 0.6.8

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2.49 Collabnet/Tigris.org Subclipse 1.8.2

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numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
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That's all there is to it!

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

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</OL>

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
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the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

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2.88 dhclient 4.2.5-68.el7.centos.1

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

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2.91 dhcp4java 1.0.0

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2.93 dogpile.cache 0.6.4

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

2.95 dracut-network 033-535.el7_5.1

2.96 Drools 4.0.7

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2.100 Eclipse JDT component 3.6
2.101 eclipse jdt core 3.5.1

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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
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2.106 ejbca 6.2.0

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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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2.107 elfutils-default-yama-scope 0.17.0

2.108 elfutils-libelf 0.17.0

2.109 elfutils-libs 0.17.0

2.110 enum34 1.0.4
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2.115 firewalld 0.4.4.4-15.el7_5
2.116 firewalld-filesystem 0.4.4.4-15.el7_5

2.117 flexjson 2.1
2.117.1 Available under license:

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The contributed BDF and PCF drivers come with a license similar to that of the X Window System. It is compatible to the above two licenses (see file src/bdf/README and src/pcf/README). The same holds for the files `fthash.c' and `fthash.h'; their code was part of the BDF driver in earlier FreeType versions.

The gzip module uses the zlib license (see src/gzip/zlib.h) which too is compatible to the above two licenses.

The MD5 checksum support (only used for debugging in development builds) is in the public domain.
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2.121.1 Available under license :

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2.122 functools32 3.2.3.post2 :py2.7
2.122.1 Available under license :

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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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2.123 fuse 2.9.2 :11.el7

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

2.124 fuse-libs 2.9.2 :10.el7

2.124.1 Available under license :

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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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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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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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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.)

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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
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@c ispell-local-pdict: "ispell-dict"
@c End:
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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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Appendix: How to Apply These Terms to Your New Libraries

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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/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/sockaddr.h: Move to ...
* sysdeps/unix/bsd/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/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.

-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
-renamed from sysdeps/unix/bsd/bsd4.4/Versions
+rename to sysdeps/unix/bsd/Versions
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/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/bsd/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/bsd/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
similarity index 100%
rename from sysdeps/unix/bsd/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/bsd/bsd4.4/wait3.c>
+#include <sysdeps/unix/bsd/wait3.c>

2.129 glibc-common 2.17
2.130 glusterfs 3.12.2 :18.el7

2.130.1 Available under license :

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```
Gnomovision version 69, Copyright (C) year name of author
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This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
```

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

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From 0b7fa3bdd3334c70d99d1a1b99c3e37d49fc66e3 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: I3a10e30878698e1d53082936bbf22bca560a3896
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 = ""
-   "\nRepository revision: " GLUSTERFS_REPOSITORY_REVISION "\n"
-   "Copyright (c) 2006-2016 Red Hat, Inc. "
-   "<https://www.gluster.org/>
-   "GlusterFS comes with ABSOLUTELY NO WARRANTY.\n"
-   "It is licensed to you under your choice of the GNU Lesser\n"
-   "General Public License, version 3 or any later version (LGPLv3\n"
-   "or later), or the GNU General Public License, version 2 (GPLv2),\n"
-   "in all cases as published by the Free Software Foundation.
-   "PACKET_NAME" "PACKAGE_VERSION;
const char *argp_program_bug_address = "<" PACKAGE_BUGREPORT "">";

 struct rpc_clnt *global_quotad_rpc;

diff --git a/glusterfsd/src/glusterfsd.c b/glusterfsd/src/glusterfsd.c
index eefdc5..38b863c 100644
--- a/glusterfsd/src/glusterfsd.c
+++ b/glusterfsd/src/glusterfsd.c
@@ -87,15 +87,7 @@ static char gf_doc[] = ""
 static char argp_doc[] = "--volfile-server=SERVER [MOUNT-POINT]\n"
-   "--volfile=VOLFILE [MOUNT-POINT]
const char *argp_program_version = ""
-   "\nRepository revision: " GLUSTERFS_REPOSITORY_REVISION "\n"
-   "Copyright (c) 2006-2016 Red Hat, Inc. "
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-   "in all cases as published by the Free Software Foundation.
-   "PACKET_NAME" "PACKAGE_VERSION;
const char *argp_program_bug_address = "<" PACKAGE_BUGREPORT "">";

 static error_t parse_opts (int32_t key, char *arg, struct argp_state *state);
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 e57c9e0b0cc3d8649b869eda5ec20f3c6a6d34f0)
> (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.

```bash
+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}3 | grep dironedown | awk '{print $4}'`
+TEST echo $gid
+TEST [ $gid = QA ]
+
+umount $M0
+userdel --force dev
+groupdel QA
+
+cleanup
+exit
+
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,
                 gfid_local[GF_UUID_BUF_SIZE] = {0};
                 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,
                 dht_aggregate_xattr (local->xattr, xattr);
             }
+
             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;
+             }
+
             if (local->stbuf.ia_type != IA_INVAL) {
                 if (!__is_root_gfid (stbuf->ia_gfid) &&
                     ((local->stbuf.ia_type != stbuf->ia_gid) ||
                     (local->stbuf.ia_uid != stbuf->ia_uid) ||
                     (is_permission_different (&local->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);
+         }
+     }
+     skip_attr_heal:
+     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
+int
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))
-                        { local->need_selfheal = 1;
+                                    &stbuf->ia_prot))
+                        { 
                            local->need_selfheal = 1;
                        }

                        if (!dict_get (xattr, conf->mds_xattr_key)) {
                            gf_msg_debug (this->name, 0,
"internal xattr %s is not present"
@@ -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_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_gfid;
@@ -1843,8 +1898,10 @@ out:
                        if (copy) {
                            copy_local = dht_local_init (copy, &local->loc,
                                      NULL, 0);
-                            if (!copy_local)
+                            if (!copy_local) {
+                                DHT_STACK_DESTROY (copy);
                                goto cont;
                            } else {
                                dht_set_fixed_dir_stat (&local->postparent);
/
diff --git a/xlators/cluster/dht/src/dht-common.h b/xlators/cluster/dht/src/dht-common.h
index a70342f..b40815c 100644
--- 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 used 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
index e9b1db9..035a709 100644
--- 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)
    return;
  }
  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),
  }
}

cont:

diff --git a/xlators/cluster/dht/src/dht-selfheal.c b/xlators/cluster/dht/src/dht-selfheal.c
index e9b1db9..035a709 100644
--- 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)
    return;
  }
  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),
  }
}

cont:
2.131 Gmongo 0.5.1

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2.134 gnu-crypto 2.0.1

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2.135 gnupg2 2.0.22-5.el7_5

2.136 gnutls 3.3.29 :8.el7

2.137 gobject-introspection 1.56.1 :1.el7
2.137.1 Available under license:

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2.145 groovy.jar 1.7.0

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2.146 gwt 2.4.0

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2.149 HdrHistogram 2.1.8

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2.152 HttpClient-osgi 4.3.5

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var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
    if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
        d.write('<div id="comments_thread"></div>');
        var s = d.createElement('script');
        s.type = 'text/javascript';
        s.async = true;
        s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' + comments_identifier;
        (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
    }
    else {
        d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
    }
}(window, document));
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```
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```
/*                          ZeusBench V1.01
    ================

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

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

*/
```
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2.171 iwl4965-firmware 228.61.2.24-58.el7_4
2.172 iwl5000-firmware 8.83.5.1_1-58.el7_4
2.173 iwl5150-firmware 8.24.2.2-58.el7_4
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2.188 javassist 3.20.0

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<META http-equiv=Content-Type content="text/html; charset=iso-8859-1">
<META content="MSHTML 5.50.4916.2300" name=GENERATOR>

<HR width="20%">

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2.189 javax.batch-api 1.0

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2.190 javolution 5.5.1

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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2.198 jemalloc 3.6.0 :1.el7

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2.200 jettison 1.2

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2.202 jetty-http 9.4.8.v20171121

2.203 Jetty-Server 9.3.0.M2

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2.206 JFreeChart 1

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2.207 jibx 1.2.1

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

Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package names from 'org.apache.velocity' to 'clover.org.apache.velocity'. 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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2.217 jQuery-timepicker addon 1.6.0

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2.218 Jquery-ui-dist 1.12.1

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2.219 jquery.loader.js 1.0

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2.220 JRadius - Core 1.1.4 :1.1.4

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2.221 JRadius Client 1.1.4

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

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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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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.

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

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

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

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

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

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

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

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
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2.222 jradius-core-1.1.4 1.1.4

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When a program is linked with a library, whether statically or using
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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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b) You must cause the files modified to carry prominent notices
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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.

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

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

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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.

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2.231 jsonschema 2.5.1

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2.233.1 JUnit 4.12

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2.234 jxls-2.3.0 2.3.0

2.235 jxls-poi-1.0.11 1.0.11

2.236 kafka_2.11-100 2.11-1.0.0

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

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

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

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

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(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 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
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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
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Library will still fall under Section 6.)

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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.

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

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* 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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{
    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
|| strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

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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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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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Ralph Metzler <rjkm@metzlerbros.de>
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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.)

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for his work on the budget drivers, the demux code,
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for maintaining v4l/dvb inter-tree dependencies

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

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.

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Version 1.0

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static inline int license_is_gpl_compatible(const char *license)
{


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
|| strcmp(license, "Dual MPL/GPL") == 0);
}
#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*/
/* details.*/
/* */
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*
* M. Welsh, 6 July 1996
*
* */

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2.242 killcx 1.0.3

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2.243 krb5 1.15.1 :34.el7

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
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<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
    URL_ROOT:  './',
    VERSION:  '1.15.1',
    COLLAPSE_INDEX: false,
    FILE_SUFFIX: '.html',
    HAS_SOURCE: true
</script>
</head>
<body>

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| src/lib/gssapi
| generic/gssapi_err_generic

including the following files:

\[
\text{lib/gssapi/gssapi.err.generic}
\]
The document contains a list of code files from the "gssapi/mechglue" directory, including:

- `g_accept_sec_context.c`
- `g_acquire_cred.c`
- `g_canon_name.c`
- `g_compare_name.c`
- `g_context_time.c`
- `g_delete_sec_context.c`
- `g_dsp_name.c`
- `g_dsp_status.c`
- `g_dup_name.c`
- `g_exp_sec_context.c`
- `g_export_name.c`
- `g_glue.c`
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lib/gssapi/class/mechglue/g_sign.c
lib/gssapi/class/mechglue/g_store_cred.c
lib/gssapi/class/mechglue/g_unseal.c
lib/gssapi/class/mechglue/g_userok.c
lib/gssapi/class/mechglue/g_utils.c
lib/gssapi/class/mechglue/g_verify.c
lib/gssapi/class/mechglue/gssd_pname_to_uid.c
and the initial implementation of incremental propagation, including
the following new or changed files:

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

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import os
import sys
import re

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

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

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

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'^ *([^ ]*) *- . */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'/\*.*?\*/', '', line)
            line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
                                    code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
        elif line.strip() != '':
            code_seen = True
        ln += 1

for fname in sys.argv[1:]:
if fname.startswith('./'):
    fname = fname[2:]
f = open(fname)
lines = f.readlines()
f.close()
check_file(lines, fname)
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
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 lib/gss_mechs/mech_krb5/et/kdb5_err.c
 lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
 lib/gss_mechs/mech_spnego/mach/spnego_mech.c
 lib/krb5/kadm5/kadm_host_srv_names.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
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- "lib/gssapi/mecglue/g_accept_sec_context.c"
- "lib/gssapi/mecglue/g_acquire_cred.c"
- "lib/gssapi/mecglue/g_canon_name.c"
- "lib/gssapi/mecglue/g_context_time.c"
- "lib/gssapi/mecglue/g_compare_name.c"
- "lib/gssapi/mecglue/g_context_time.c"
class="o"/>
</span>

<dl class="o">
<dt><code>mechglue</code></dt>
<dt><code>g_delete_sec_context</code></dt>
<dt><code>gssapi</code></dt>
<dt><code>g_dsp_name</code></dt>
<dt><code>g_dsp_status</code></dt>
<dt><code>g_dup_name</code></dt>
<dt><code>g_exp_sec_context</code></dt>
<dt><code>g_export_name</code></dt>
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

.. parsed-literal::

    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g_glue.c
    lib/gssapi/mechglue/g_imp_name.c
    lib/gssapi/mechglue/g_imp_sec_context.c
    lib/gssapi/mechglue/g_init_sec_context.c
    lib/gssapi/mechglue/g_initialize.c
    lib/gssapi/mechglue/g_inquire_context.c
    lib/gssapi/mechglue/g_inquire_cred.c
    lib/gssapi/mechglue/g_inquire_names.c
    lib/gssapi/mechglue/g_process_context.c
    lib/gssapi/mechglue/g_rel_buffer.c
    lib/gssapi/mechglue/g_rel_cred.c
    lib/gssapi/mechglue/g_rel_name.c
    lib/gssapi/mechglue/g_rel_oid_set.c
    lib/gssapi/mechglue/g_seal.c
    lib/gssapi/mechglue/g_sign.c
    lib/gssapi/mechglue/g_store_cred.c
    lib/gssapi/mechglue/g_unseal.c
    lib/gssapi/mechglue/g_userok.c
    lib/gssapi/mechglue/g_utils.c
    lib/gssapi/mechglue/g_verify.c
    lib/gssapi/mechglue/gssd_pname_to_uid.c
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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
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
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2.245 LatencyUtils 2.0.3

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2.251 libcurl 7.29.0-42.el7_4.1

2.252 libdb4 4.8.30 :13.el7

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2.253 libdrm 2.4.91 :3.el7

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 * \file xf86drm.c
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 *
 * \author Rickard E. (Rik) Faith <faith@valinux.com>
 * \author Kevin E. Martin <martin@valinux.com>
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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}

.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}

2.264 libsss_idmap 1.15.2-50.el7_4.8

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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}

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 $(LIBFFI_BUILD_DIR) & & \n        /usr/bin/env CC="$(CC)" LD="$(LD)" CFLAGS="$(LIBFFI_CFLAGS)" GREP_OPTIONS="" \n        /bin/sh $(LIBFFI_CONFIGURE) $(LIBFFI_HOST) > /dev/null; \n    fi
    @cd $(LIBFFI_BUILD_DIR) & & $(MAKE)

2.265 libsss_sudo 1.15.2-50.el7_4.8
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# -*- makefile -*#
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#
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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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2.266 libunistring_tests 0.9.3 :9.el7

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# Makefile for BSD systems

# "-nS" 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
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2.268 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)

---

2.269 libX11 1.6.5 :2.el7

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2.272 Logback Classic Module 1.2.3

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**2.274 logging-log4j 1.2.14**

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"http://www.w3.org/MarkUp/DTD/xhtml-rdfa-1.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" version="XHTML+RDFa 1.0" dir="ltr">
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return e[t].exports}
if("function"==typeof __nr_require)return __nr_require;for(var o=0;o<w.length;++o)r(w[o]);return s(NREUM[n](n)e)(n](e)n.call(s(t),return s(t)n[""](e)function u(a){return f(e)var f=;
return on:a.emit[e,create:u,listeners:0,.events:++]=function r(){return [1]}var
n="nr@context",i=n("gos");e.exports=t,{[n]"gos":"7eSDFh"}],ee:[function(n,e){e.exports=n("QJf3ax")},{}],3:[function
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o=0;if(Object.defineProperty&&Object.keys)try{return
Object.defineProperty(n,e,{value:o,writable:!0,enumerable:!1}),o}catch(i){}return n[e]=o,o}var
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a=["setPageViewName","addPageAction","setCustomAttribute","finished","addToTrace","inlineHit","noticeError"]
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o=t;if(Object.defineProperty&&Object.keys)try{r(n,e)if(n)\[o\]["n\]=[\[],void o[n].push(e)])
var
r=n("ee"),create:function(n,o){e.exports=t,t.see=r.o,ee=[],e.exports=n("QJf3ax")],{function(n,e){e.exports=n("D5DuLP")},{}
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\}
var
a=n("handle"),c=n[1],t=(n[2],window),f=u.document,s="addEventListner".p="attachEvent".d="\"+location\split(" ?\)\]\{\[\];\[n\]beacon="\"ham.nr-data-net\"",\_errorBeacon="\"ham.nr-data-net\"",\agent="\"js\_agent\newrelic\_com\nr-593.min.js\"",\h=e.exports=[offset,i,origin,d,features:[]];\[f\[s\]f\[s\]DOMContentLoaded",o,1],u[s]\[\"load",t,1])\\{f \[p\]onreadystatechange\}r,\_u[\"onload",\_a[\"mark",\[\"firstbyte","_i"]\}},1:12,2:3,handle:"D5DuLP")\}12:function
(n,e){function t\{var r=\[o","="\;i=0;for(0\_nr\_call(n,e)&\&t[i]=\(e\[o[n,o]\],i++)=1;return t)\var
r=Object.prototype.hasOwnProperty\;e.exports=t,{}];[function(n,e)\{function t\(n,e\){1:0,e=undefined"==typeof t&\&n.t(n\[n\[length:0\]for(var r=1,0=t-
\[i]=Array(0"o+70);i++;\_i[r]=\[n[e]+i;return 1]e.exports=t,{}],{}],["G9z0Bl"]\};\}catch(i){}return
</script>
</head>
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</html>
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<li><a href="http://tiles.apache.org/" title="A templating framework for web application user interfaces">Tiles</a></li>
<li><a href="http://tomee.apache.org/" title="Java EE Web Profile built on Tomcat">TomEE</a></li>
<li><a href="http://trafficserver.apache.org/" title="A fast, scalable and extensible HTTP/1.1 compliant caching proxy server">Traffic Server</a></li>
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<li><a href="http://xmlbeans.apache.org/" title="XML-Java binding tool">XMLBeans</a></li>
<li><a href="http://zookeeper.apache.org/" title="Centralized service for maintaining configuration information">ZooKeeper</a></li>
</ul>
</div>

<div class="grid_3">
<h4>Foundation</h4>
<ul>
<li><a href="/foundation/faq.html" title="FAQ">FAQ</a></li>
<li><a href="/licenses/" title="Overview of the Apache Licenese">Licenses</a></li>
<li><a href="/foundation/marks/" title="Apache marks policies and listing">Trademarks</a></li>
<li><a href="/foundation/news.html" title="Official news feed of Foundation announcements">News</a></li>
<li><a href="/foundation/press/" title="Press, Media, and Analyst contact">Press Inquiries</a></li>
<li><a href="/foundation/records/" title="Formal corporate records and board meeting minutes">Public Records</a></li>
<li><a href="/foundation/mailinglists.html" title="Mailing lists and Apache">Mailing Lists</a></li>
<li><a href="/foundation/sponsorship.html" title="Sponsor the Foundation">Sponsorship</a></li>
<li><a href="/foundation/contributing.html" title="Donate to the Foundation">Donations</a></li>
<li><a href="/foundation/buy_stuff.html" title="Buy Apache branded merchandise">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html" title="Thank you to our Sponsors">Thanks</a></li>
<li><a href="/foundation/contact.html" title="Contact Us">Contact</a></li>
</ul>
</div>

<div class="grid_3 suffix_1">
<h4>Foundation Projects</h4>
<ul>
<li><a href="http://attic.apache.org/" title="Inactive projects repository">Attic</a></li>
<li><a href="/foundation/conferences.html" title="Meetings of developers and users">Conferences</a></li>
<li><a href="http://community.apache.org/" title="Helping newcomers to the ASF">Community Development</a></li>
<li><a href="http://incubator.apache.org/" title="Shepherd for new projects">Incubator</a></li>
<li><a href="/dev/" title="ASF Infrastructure: Operations and howto documents for PMCs and contributors">Infrastructure</a></li>
<li><a href="/legal/" title="Legal Affairs">Legal Affairs</a></li>
<li><a href="/press/" title="Public Relations">Public Relations</a></li>
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<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" version="XHTML+RDFa 1.0" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<link rel="shortcut icon" href="http://opensource.org/files/garland_favicon.png" type="image/png" />
<link rel="shortlink" href="/node/66" />

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    <div class="form-item form-type-textfield form-item-search-block-form">
      <label class="element-invisible" for="edit-search-block-form--2">Search </label>
      <input title="Enter the terms you wish to search for." type="text" id="edit-search-block-form--2" name="search_block_form" value="" size="15" maxlength="128" class="form-text" />
    </div>
    <div class="form-actions form-wrapper" id="edit-actions">
      <input type="submit" id="edit-submit" name="op" value="Search" class="form-submit" />
    </div>
  </div>
</form>

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  <li class="collapsed"><a href="/osd" title="The actual OSD defining what constitutes an Open Source licence">The Open Source Definition</a></li>
  <li class="collapsed"><a href="/licenses" title="Open Source Licenses">Open Source Licenses</a></li>
  <li class="collapsed"><a href="/trademark" title="Information about trademark and logo usage">Trademark and Logo Usage</a></li>
  <li class="leaf"><a href="/faq" title="Frequently Asked Questions about open source and about the OSI.">FAQ</a></li>
  <li class="collapsed"><a href="/osr-intro" title="Open Standards Requirement for Software">Open Standards</a></li>
  <li class="leaf"><a href="/osi-open-source-education" title="OSI's Open Source Education Initiative and Activities">Open Source Education</a></li>
  <li class="collapsed"><a href="/lists" title="The virtual committees where the OSI works on projects"><br>
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# -*- 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
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

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 * imap_gssapi.c is partially derived from sample code in:
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 * Part No: 816-1331-11
 * Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.
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HMAC: Keyed-Hashing for Message Authentication

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EXHIBIT A -Mozilla Public License.

```
```

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2.279 memcached-1.4.15-10.el7_3.1.x86_64
1.4.15 :10.el7_3.1
2.279.1 Available under license :

MEMCACHED CONTRIBUTORS

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, ...

Other Contributors
-------------------

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The Mesa distribution consists of several components. Different copyrights and licenses apply to different components. For example, the GLX client code uses the SGI Free Software License B, and some of the Mesa device drivers are copyrighted by their authors. See below for a list of Mesa's main components and the license for each.

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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```
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```

Attention, Contributors

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/glext.h</td>
<td>Khronos</td>
</tr>
<tr>
<td></td>
<td>include/GL/glxext.h</td>
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</tr>
<tr>
<td>GLX client code</td>
<td>src/glx/</td>
<td>SGI Free Software License B</td>
</tr>
<tr>
<td>C11 thread</td>
<td>include/c11/threads*.h</td>
<td>Boost (permissive)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>emulation</td>
</tr>
</tbody>
</table>
</pre>

In general, consult the source files for license terms.
</p>
</div>
</body>
</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
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> What we meant with that is that we made an exception for clause 2.
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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

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Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

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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
/* 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
ABCDEFGHIJKMLNOPQRSTUVWXYZ
_0123456789
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=!
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# Authors:
#   Ian Romanick <idr@us.ibm.com>

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2.281 mesa-libGL 17.2.3 :8.20171019.el7

2.281.1 Available under license:

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<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>
<div class="header">
<h1>The Mesa 3D Graphics Library</h1>
</div>
<iframe src="contents.html"></iframe>
<div class="content">
<h1>Disclaimer</h1>
<p>
Mesa is a 3-D graphics library with an API which is very similar to that of <a href="https://www.opengl.org/">OpenGL</a>.*
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</p>
</div>
</body>
</html>
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```
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</pre>

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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>

</div>

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From: Jorge Jimenez <iryoku@gmail.com>
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Fedora Legal

==
Fedora Project
betefghijklmnopqrstuvwxyz

ABCDEFGHIJKLMNOPQRSTUVWXYZ

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/* 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 Specificiation 4.30.6, section 3.1]
* 
* In this file, we test each of these in turn as follows:
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* 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
ABCDEFGHJKLMNOPQRSTUVWXYZ

0123456789
.
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*
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<
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# Authors:
#    Ian Romanick <idr@us.ibm.com>

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2.282 mesa-libglapi 17.2.3 :8.20171019.el7

2.282.1 Available under license :

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<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>

<div class="header">
<h1>The Mesa 3D Graphics Library</h1>
</div>

<iframe src="contents.html"></iframe>

<div class="content"
<h1>Disclaimer</h1>

Mesa is a 3-D graphics library with an API which is very similar to that of <a href="https://www.opengl.org/">OpenGL</a>.* To the extent that Mesa utilizes the OpenGL command syntax or state machine, it is being used with authorization from <a href="https://www.sgi.com/">Silicon Graphics, Inc.</a> (SGI). 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.

The default Mesa license is as follows:

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<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>
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
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’s 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,

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
/* 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, tildes, 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
 * 0123456789
 * +
 * /
 * *
 * %
 * <
 * >
 * [ ]
 * ( )
 * {}
 * ^
 * |
 * &
 * ~
 * =
 * :
 * ;
 * ,
 * #
 * \n
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Authors:
Ian Romanick <idr@us.ibm.com>

bsd_license_template = """"%s
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2.283 mibble-mibs 2.9.2
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Version 3, 29 June 2007

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2.291 mongo 3.4.16

2.292 mongo-java-driver 3.7.1
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2.296 msgpack 0.5.4

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### 2.297 munch 2.2.0

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2.299 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::

```bash
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::

```python
>>> import netifaces

Then if you enter

```python
>>> 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

```python
>>> netifaces.ifaddresses('lo0')
{18: [{'addr': ''}], 2: [{'addr': '127.0.0.1', 'netmask': '255.0.0.0', 'peer': '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'}]}
```

Hmmm. 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:

```python
>>> 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.

```python
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[['peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1']]
```

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

```python
>>> 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:

```python
>>> 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:

```python
>>> netifaces.gateways()
{2: [('10.0.1.1', 'en0', True), ('10.2.1.1', 'en1', False)], 30: [('fe80::1', 'en0', True)], 'default': { 2: ('10.0.1.1', 'en0'), 30: ('fe80::1', 'en0') }}
```

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

```python
>>> 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
systems as well. 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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-------------------------------

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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.

2.300 netty 4.0.36
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

Gnomovision version 69, Copyright (C) year name of author
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This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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

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

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

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

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

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

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

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

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"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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   table of data to be supplied by an application program that uses
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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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entire whole, and thus to each and every part regardless of who wrote
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Thus, it is not the intent of this section to claim rights or contest
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In addition, mere aggregation of another work not based on the Library
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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2.308 openpyxl 2.4.0 :a1

2.309 openssh-clients 7.4p1
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2.311 openssl 1.0.2k :16.el7

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2.313 openstacksdk 0.11.3

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```bash
[[local|localrc]]
# 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/releases/25/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 `createRESOURCE()` , `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 requirements.

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 <../users>` section.

About the Project
-----------------

The OpenStack SDK is a 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 <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::
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``

.. literalinclude:: examples/resource/fake_service.py
   :language: Python
   :linenos:

``openstack/fake/v2/fake.py``

.. literalinclude:: examples/resource/fake.py
   :language: Python
   :linenos:

``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/%(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 `class:`~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 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.

# Apache 2 header omitted for brevity

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)

    # Apache 2 header omitted for brevity

    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
    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 version of 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
```

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 <https://tox.readthedocs.org/en/latest/>`_ 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.

.. note:: Before checking out the code, please read the OpenStack
   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 (Create, Read, Update, and Delete) 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.

```python
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 `resource_keys = "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 `~keystoneauth1.adapter.Adapter` and provides a higher-level interface for users to work with via a `~openstack.connection.Connection` instance. Rather than requiring users to maintain their own `~Adapter` and work with lower-level `~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 `openstack.connection.Connection` class builds atop a `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
========


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 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-dev/devstack/refs/>`_ of OpenStack (without the ``stable/`` prefix on the branch name).

```
os-client-config
***************
```

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 :)

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

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2.334 perl 5.16.3 :294.el7_6
2.334.1 Available under license:

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();
    isa_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 54856bdaab57380bf07e8e66778503a41aca3 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 int riter = HvRITER_get(ohv);
 HE * const eiter = HvEITER_get(ohv);
+ENTER;
SAVEFREESV(hv);
+
while (hv_max &amp;&amp; hv_max + 1 &gt;= 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)
    SV_GMAGIC is the default for sv_setv()
    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");
 }

-Sv_GETMAGIC( old );
+SvGETMAGIC( old );

 /* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games */
 # 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;
+    }
+    { 1; }
+    `;
+}, 'hint-hash copying does not leak');

1.8.1.4
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The End
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\n\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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Julian Seward, jseward@bzip.org
bzip2/libbzzip2 version 1.0.6 of 6 September 2010

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The End

2.336 perl-Getopt-Long 2.40 :3.el7

2.337 perl-Git 1.8.3.1-14.el7_5

2.338 perl-Net-Pcap 0.17 :7.el7

2.339 perl-Net-RawIP 0.25 :11.el7

2.340 perl-Sys-Syslog 0.33 :3.el7
2.340.1 Available under license:
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2.341 pexpect 3.1
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2.343 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 ${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

$(OBJ):$(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="" \n      /bin/sh $(LIBFFI_CONFIGURE) $(LIBFFI_HOST) > /dev/null; \
    fi
  @cd $(LIBFFI_BUILD_DIR) && $(MAKE)

2.344 php-cli 5.4.16-43.el7_4.1
2.345 php-common 5.4.16-43.el7_4.1

2.346 php-pecl-jsonc 1.3.9 :1.el7

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2.347 php-pecl-mongo 1.6.14 :1.el7

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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
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mcon/contrib/strndup.c:

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 */

2.348 php-process 5.4.16-43.el7_4.1
2.349 php-xml 5.4.16-43.el7_4.1

2.350 picocontainer 2.13.5

2.351 Plymouth 0.8.9

:0.31.20140113.el7.centos

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2.354 poi-ooxml-schemas 3.14
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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 :mod:`random` module includes code based on a download from
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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
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

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/.

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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

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

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2.363 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
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2.364 python-carbon 0.9.16 :1.el7

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2.365 python-cinderclient 3.5.0

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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 `ostestr 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 ostestr 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: `os-testr 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`:

    CONF['lock_path'].SetDefault('/tmp')

Note that you may use any location (not just `'/tmp'`) as long as it is not a shared folder.
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
`ostestr 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

2.366 python-django 1.6.11.6 :1.el7

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First steps
-----------

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* **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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2.367 python-django-tagging 0.3.1 :11.el7

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Django Tagging

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Cab

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2.368 python-glanceclient 2.9.1

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2.369 python-keystoneclient 3.15.0

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2.370 python-lxml 3.2.1 :4.el7

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2.373 python-neutronclient 6.7.0
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 ------ 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 an 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 reasons.

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)

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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`

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 `*-update`.

* 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=0/1` 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.

.. _background-nargs:

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]`.

.. code-block::

   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.
   SystemExit: 2

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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~~~~~~~ Heading 2
+++++++ Heading 3
''''''' Heading 4
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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>`_,
`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>`_
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 <https://docs.openstack.org/python-openstackclient/latest/cli/command-objects/network.html>`_ 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 <https://docs.openstack.org/python-openstackclient/latest/cli/command-objects/ip-floating.html>`_, `ip floating pool <https://docs.openstack.org/python-openstackclient/latest/cli/command-objects/ip-floating-pool.html>`_, `ip fixed <https://docs.openstack.org/python-openstackclient/latest/cli/command-objects/ip-fixed.html>`_, `security group <https://docs.openstack.org/python-openstackclient/latest/cli/command-objects/security-group.html>`_, and `security group rule <https://docs.openstack.org/python-openstackclient/latest/cli/command-objects/security-group-rule.html>`_ 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 provide 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?**

```
+----------------------+------------------------+-------------------------------------------------+
| `neutron` Command   | `openstack` Command    | CLI to Change                                    |
+----------------------+------------------------+-------------------------------------------------+
| Exists               | Doesn't Exist          | `neutron`                                        |
+----------------------+------------------------+-------------------------------------------------+
| Exists               | In Progress            | `neutron` and `openstack`                        |
|                      |                        | (update related blueprint or bug)               |
+----------------------+------------------------+-------------------------------------------------+
<p>| Exists               | Exists                 | <code>openstack</code>                                      |
|                      |                        | (assumes command parity resulting in            |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th><code>neutron</code> being deprecated)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doesn't Exist</td>
<td>Doesn't Exist</td>
<td><code>openstack</code></td>
</tr>
<tr>
<td>----------------------</td>
<td>------------------------</td>
<td>-------------------------------------------------</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 has been located in the neutron repo for quite sometime, e.g. QoS or Metering, or that 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.

| Networking Commands       | OSC Plugin        | OpenStack Project for ```openstack``` Commands    |
|---------------------------+-------------------+================================================-|
| 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>
<tbody>
<tr>
<td>python-openstackclient</td>
<td>python-openstacksdk</td>
</tr>
<tr>
<td>python-neutronclient</td>
<td>python-neutronclient</td>
</tr>
<tr>
<td>Other</td>
<td>Applicable project owning network resource</td>
</tr>
</tbody>
</table>
**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` file.

When adding an `openstack` networking command to python-openstackclient, you can optionally propose an `OSC command spec` which documents the new command interface before proceeding with the implementation.

Users of the neutron client's command extensions must adopt the `OSC plugin` 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` to determine if an `openstack` command is in progress.
* See `OSC command list` to determine if an `openstack` command exists.
* See `OSC command spec list`
openstackclient/tree/master/doc/source/contributor/specs/command-objects>`_ to determine if an `openstack` command spec exists.
* 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
```
(Avoid deeper levels because they do not render well.)

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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-------  Heading 1
~~~~~~~  Heading 2
+++++++++ Heading 3
~~~~~~  Heading 4
```
(Avoid deeper levels because they do not render well.)

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.
2.374 python-novaclient 10.1.0

2.374.1 Available under license:

Copyright (c) 2009 Jacob Kaplan-Moss - initial codebase (< 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
   :hidden:

   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

**2.375 python-ordereddict 1.1 :6.el7**

**2.375.1 Available under license:**

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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
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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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2.377 python-paramiko 2.1.1 :9.el7

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2.383 python2-boto 2.45.0 :3.el7

2.383.1 Available under license :

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2.384 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-Dispostion: 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.
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on the point of whether distributing modified versions is allowed. (It
says "distribute and use", but not "modify".)

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(though that would be nice).
For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, 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
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 Apr 09, Dwayne C. Litzenberger <dllitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dllitz@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. 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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--amk

(www.amk.ca)
```

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> 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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> 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 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>
To: moraes@computer.org
Subject: Re: PyCrypto license clarification
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
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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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?
On November 23, 2008, you wrote:

> Hi Wim,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.
> 
> I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?
Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128 implementation, which already has a public-domain notice at the top of the file. But I am happy to have that, any any other code of mine that might have wandered in there under an unclear open sourcish license, distributed under the public-domain dedication you quote.

Wim.

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Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnAl8UnN9n93LBAQLp/gQAh7x8Avmstc2kxEJDWTm26PTAZxMz4B
FektbDOzkXg5580MGGeEx/MVn8aw+1BHg0YD85gsntIDzkGQtb+BR/xAvJ5zKya
J/Mn/i16ekJQ3juyh5IPHLAduOXm9Rtguas/yR+DoaqOxOPKoBx+/5+t1IjtBcZ
wrPEa9Ou9i9s=
=zSY9
-----END PGP SIGNATURE-----

Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
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Regards,
- Dwayne

--=20
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)
iEYEARECAAYFAkko52IACgkQHBG4d+eAS0XPPQCFcyQ2DdAXKg9N7Z+jeSFFD5EZ
yloAn33aZjkteyJaTbzEqImOEW8JGpf
=aBEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--
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The intention is that it be public domain.

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

You may.

--amk
Hi Barry,

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

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

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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

    -----BEGIN PGP SIGNED MESSAGE-----
    Hash: SHA1

    On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

    > I am the new maintainer of the Python Cryptography Toolkit, and I am =20=

    -----END PGP SIGNED MESSAGE-----
Hi Paul,

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

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.

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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)

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Moraes, and they have all approved the following dedication for their
contributions.

I understand that you have made contributions to PyCrypto, under nickname
"z3p" and/or other names. May I, on your behalf, dedicate to the public
domain all your contributions to PyCrypto, with the following notice?

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to exercise all rights associated with the contents of this file for
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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 paulswartz@gmail.com Mon Aug 3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@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=
> =C2=A0The contents of this file are dedicated to the public domain. =C2=
> =A0To the
> =C2=A0extent that dedication to the public domain is not available, every=
> one
> =C2=A0is granted a worldwide, perpetual, royalty-free, non-exclusive lice=
> nse
> 
> =C2=A0exercise all rights associated with the contents of this file fo=
> r
> 
> =C2=A0any purpose whatsoever. =C2=A0No rights are reserved.

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

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

From dlitz@dlitz.net Mon Aug  3 14:35:01 2009
Date: Mon, 3 Aug 2009 14:35:01 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: Re: PyCrypto license clarification
Message-ID: <20090803183501.GA17472@rivest.dlitz.net>
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
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> >> ==============================================================
> >
> >Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

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

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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: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000
Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])
  (envelope-sender <joris@bontje.nl>)
  by 10.170.1.96 (qmail-ldap-1.03) with SMTP
  for < >; 5 May 2009 07:08:25 -0000
Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)
id 9BE9B15759B; Tue,  5 May 2009 09:08:25 +0200 (CEST)
Received: from firewall66.interaccess.nl (firewall66.interaccess.nl [193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;
  Tue, 05 May 2009 09:08:25 +0200
Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
Date: Tue, 05 May 2009 09:08:25 +0200
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.
I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

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

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

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

From dlitz@dlitz.net Tue May 5 17:53:47 2009
Date: Tue, 5 May 2009 17:53:47 -0400
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
> Hi Dwayne,
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Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45
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
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> license
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> any purpose whatsoever. No rights are reserved.
>

---------BEGIN PGP SIGNED MESSAGE---------
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)

iEYEARECAAYFAkmZ01gACgkQQQDKKvyJ6cOLvQClQmYYuVODvllyLg0hgCi9LAbQ
SH8AoLJgazlI7i/ZYDc+/Cd8VO0xLbr
=Ma6g
-----END PGP SIGNATURE-----

00INDEX  This file
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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.

<table>
<thead>
<tr>
<th>Release</th>
<th>Derived from</th>
<th>Year</th>
<th>Owner</th>
<th>GPL-compatible?</th>
</tr>
</thead>
</table>

Open Source Used In Policy Suite 19.2.0
Footnotes:

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~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)
To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

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.

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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.)
EXPORT RESTRICTIONS:

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# 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
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########################################################
# 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
#
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# on Thursday 28 August 2008 with reference 0520978
#
# CAUTION: while the message may well be from the sender
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#
# For information about the Stamper service see
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#
########################################################

-----BEGIN PGP SIGNED MESSAGE-----
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>

-----BEGIN PGP SIGNATURE-----
Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978

iQEVAguBSSLX1DYGVnVBwth+bAQEcufW9EWNxLYqS0sSbPzR9K9QtsTPcscKbTljKjPxr
dq0fE7eE8VtvviUcTAR9og27yvzopxdt864MQA7OTsBPK39sGAgA4fAgvYH9t
UnjJkv8QLzaaq2f/hNjyrwqFmUl0uqwpOrQGbz8Y+SgpVhlgKqy1Ju45L+doq
sxBzCOpigRv2IdN/V25NmBWQVx8dSeonwIPqQDFt8/LVA/gHiTdmtesIOhJQ6o
XYhY+HbRjsD741/GSpO911N5ln0UgssfoLItdNSAvWF4aPyh5KCN7ho+/BC0v/W
pqSSIPkwmehlPHoOltTkc0qKLAXHqMGJNhO8AkrYZOyJksb0HsA==
=3oiX

-----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
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Jeethu Rao <jeethurao@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>
MIME-Version: 1.0
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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to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

=======================================================================
Regards,
- Dwayne

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

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9
    for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)
    Received: from localhost (localhost [127.0.0.1])
        by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
    for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)
    Received: (vmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.128.0/17 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17 matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-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, 8 Mar 2009 15:28:12 -0600 (CST)
    Received: by rv-out-0708.google.com with SMTP id k29so125233rwb.26
        for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha1; c=nofws;
    d=google.com; s=gamma;
    h=mime-version:in-reply-to:references:date:message-id:subject:from:to:content-type;
    b=Ym7CStuDe/fKay1A/yWZkZmJA1hnTcwCG6akBHAXLd8ht6PFcmlsfzZG8hJOfuje8
        vljqcT+G6cywVTVb1pyGx7ECYzr0+vhGvgdpACGrs24zikHfpSsd5FogzXaLVvGVH8p
        bqShpWKKtEp4gAQkiNeIq1GNtR2j8U3fnRyg=
MIME-Version: 1.0
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
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> > point of whether distributing modified versions is allowed. (It says
> > "distribute and use", but not "modify".)
> >
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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.
> >==================================================================
>>
> >Incorporating the code into commercial products is permitted; you do
> not have to make source available or contribute your changes back
> (though that would be nice).
> >--amk (www.amk.ca)
> >
> >For the next PyCrypto release, I would like to take steps to move toward a
> clearer licensing regime. I am asking as many copyright holders as I can
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> Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey
> Pointer, and Wim Lewis, and they have all approved the following text for
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> >I understand that you have made contributions to PyCrypto. May I, on your
> behalf, dedicate to the public domain all your contributions to PyCrypto,
> with the following notice?
> >======================================================================
> >The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.
> =======================================================================
> >Regards,
> - Dwayne
>
> --
> Dwayne C. 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,<div>My contribution to pycrypto are very very minimal (The sha25=
6 module, IRC). </div>&lt;div&gt;&lt;div&gt;I&hellip;&lt;/div&gt;&lt;div&gt;1)&amp;#39;d be fine with the public domain license f= or PyCrypto. &lt;/div&gt;&lt;div&gt;Jeethu Rao&lt;/div&gt;&lt;div&gt;PS: Apologies for t= he delay in my response.&lt;/div&gt;&lt;div&gt;&lt;br&gt;&lt;/div&gt; &lt;div&gt;Jeethu Rao&lt;/div&gt;&lt;div&gt;I don&amp;#39;t really check this email address all that often.&lt;/div&gt;&lt;div&gt;="
please direct any further correspondence to <a href="mailto:jeethu@jeethu-rao.com">jeethu@jeethurao.com</a>

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger wrote:

Hi Jeethu,


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Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

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--amk

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--- End fragment ---
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 <<a href="mailto:dlitz@dlitz.net" target="_blank">dlitz@dlitz.net</a>>

=A0 =A0 =A0Key-signing key =A0 - 19E1 1FE8 B3CF F273 ED17 =A0A04A24 928C EC1=3C39C2 5CF7<br/>

</font></blockquote></div><br clear="all"><br/>

---000e0cd209d0e5a3d40464a23054--

### 2.385 python2-cryptography 1.7.2

### 2.386 python2-psutil 5.2.2

#### 2.386.1 Available under license:

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2.387 python2-rsa 3.4.1 :1.el7

2.387.1 Available under license:

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2.388 python2-simplejson 3.10.0 :1.el7

2.388.1 Available under license:

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2.390 pyudev 0.21 :0dev_20160822-py2.6

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2.392 qemu-img 1.5.3-156.el7_5.3

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2.398 rfc3986 1.1.0

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2.399 rpm-build-libs 4.11.3 :32.el7

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  regcomp.c:
  regenc.[ch]:
  regerror.c:
  regexec.c:
  regint.h:
  regparse.[ch]:
  enc/ascii.c
  enc/big5.c
  enc/cp949.c
  enc/emacs_mule.c
  enc/encdb.c
  enc/euc_jp.c
  enc/euc_kr.c
  enc/euc_tw.c
  enc/gb18030.c
  enc/gb2312.c
  enc/gbk.c
  enc/iso_8859_1.c
  enc/iso_8859_10.c
  enc/iso_8859_11.c
  enc/iso_8859_13.c
  enc/iso_8859_14.c
  enc/iso_8859_15.c
  enc/iso_8859_16.c
  enc/iso_8859_2.c
  enc/iso_8859_3.c
  enc/iso_8859_4.c
  enc/iso_8859_5.c
  enc/iso_8859_6.c
  enc/iso_8859_7.c
  enc/iso_8859_8.c
  enc/iso_8859_9.c
  enc/koi8_r.c
  enc/koi8_u.c
  enc/shift_jis.c
  enc/unicode.c
  enc/us_ascii.c
  enc/utf_16be.c
  enc/utf_16le.c
  enc/utf_32be.c
  enc/utf_32le.c
  enc/utf_8.c
  enc/windows_1251.c

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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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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emi.html
e-mail: matumoto@math.keio.ac.jp

vsnprintf.c:

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missing/erf.c:
missing/finite.c:
missing/hypot.c:
missing/isinf.c:
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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ext/nkf/nkf-utf8/nkf.c:
ext/nkf/nkf-utf8/utf8tbl.c:

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2.414 samba-common 3.6.23

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2.428 snakeyaml 1.17

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2.443 sssd-client 1.16.0-19.el7_5.8

2.444 sssd-common 1.16.0-19.el7_5.8

2.445 sssd-krb5-common 1.16.0-19.el7_5.8

2.446 sssd-ldap 1.16.0-19.el7_5.8
2.447 StAX API 1.0.1

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2.448 stax-api 1.0.1

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2.455 teamd 1.27

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2.461 validation-api 1.0.0.GA

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2.462 vcversioner 2.16.0.0

2.463 velocity 1.6.3

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2.464 vue-resource 1.5.1

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2.479 xmlParserAPIs 2.6.0

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 */
2.482 yum-plugin-fastestmirror 1.1.31-46.el7_5

2.483 yum-utils 1.1.31-46.el7_5

2.484 zookeeper 3.4.10
2.484.1 Available under license :

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