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Apache log4j

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## 1.4 bcpkix-jdk15on 1.51

## 1.5 bcprov-jdk15on 1.51

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Version 2.0, January 2004

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## 1.6 c3p0 0.9.1.1

### 1.6.1 Available under license :

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">

<head>
<!-- start of server/head-include-1.html -->
<meta http-equiv="content-type" content="text/html; charset=utf-8" />
<link rev="made" href="mailto:webmasters@gnu.org" />
<link rel="icon" type="image/png" href="/graphics/gnu-head-mini.png" />
<meta name="ICBM" content="42.355469,-71.058627" />
<meta name="DC.title" content="gnu.org" />
<link rel="stylesheet" href="/combo.css" media="screen" />
<link rel="stylesheet" href="/mini.css" media="handheld" />
<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 -->

<!-- end of server/header.html -->

<!-- Parent-Version: 1.79 -->
<title>GNU Lesser General Public License v3.0
- GNU Project - Free Software Foundation</title>
<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>
<body>
<div class="inner">
<!-- start of server/body-include-1.html -->

<div id="toplinks">
<a href="#content">Skip to main text</a>
<span class="gnun-split"></span>
<a href="/server/select-language.html?callback=/licenses/lgpl.html" rel="nofollow">
Set language
<span class="gnun-split"></span>
</a>
</div> <!-- /toplinks -->

<div id="searcher">
<form method="get" action="//www.gnu.org/cgi-bin/estseek.cgi" class="header">
<div>
<input name="phrase" id="phrase" type="text" size="18" accesskey="s"
value="Why GNU/Linux?" onfocus="this.value="" />
<input type="submit" value="Search" />
</div>
</form>
</div><!-- /searcher -->

<div id="translations">
<p>
<span dir="ltr" class="original"><a lang="en" hreflang="en" href="/licenses/lgpl-
3.0.en.html">English</a>&nbsp;&nbsp;&nbsp;</span> &nbsp;&nbsp;&nbsp;
<span dir="ltr"><a lang="ca" hreflang="ca" href="/licenses/lgpl-3.0.ca.html">català</a>&nbsp;&nbsp;&nbsp;</span> &nbsp;&nbsp;&nbsp;
<span dir="ltr"><a lang="de" hreflang="de" href="/licenses/lgpl-3.0.de.html">Deutsch</a>&nbsp;&nbsp;&nbsp;</span>
&nbsp;&nbsp;&nbsp;
<span dir="ltr"><a lang="fr" hreflang="fr" href="/licenses/lgpl-3.0.fr.html">français</a>&nbsp;&nbsp;&nbsp;</span> &nbsp;&nbsp;&nbsp;
<span dir="ltr"><a lang="ja" hreflang="ja" href="/licenses/lgpl-3.0.ja.html"></a>&nbsp;&nbsp;&nbsp;</span> &nbsp;&nbsp;&nbsp;
<span dir="ltr"><a lang="nl" hreflang="nl" href="/licenses/lgpl-3.0.nl.html">Nederlands</a>&nbsp;&nbsp;&nbsp;</span>
&nbsp;&nbsp;&nbsp;
<span dir="ltr"><a lang="ru" hreflang="ru" href="/licenses/lgpl-3.0.ru.html"></a>&nbsp;&nbsp;&nbsp;</span> &nbsp;&nbsp;&nbsp;
<span dir="ltr"><a lang="uk" hreflang="uk" href="/licenses/lgpl-3.0.uk.html"></a>&nbsp;&nbsp;&nbsp;</span> &nbsp;&nbsp;&nbsp;
</p>

```

```

</div>

<!-- end of server/body-include-1.html -->

<!-- start of server/body-include-2 -->
<div id="header">
<div id="fsf-frame">
<p id="join-fsf"><a
href="https://www.fsf.org/associate/support_freedom?referrer=4052">JOIN&nbsp;THE&nbsp;FSF</a></p>
<div id="fssbox">
<p><a href="http://www.fsf.org/fss">Free Software Supporter</a></p>
<form action="https://my.fsf.org/civicrm/profile/create?reset=1&gid=31"
method="post" class="header">
<div>
<input name="postURL" type="hidden" value="" />
<input type="hidden" name="group[25]" value="1" />
<input name="cancelURL" type="hidden" value="https://crm.fsf.org/civicrm/profile?reset=1&gid=31" />
<input name="_qf_default" type="hidden" value="Edit:cancel" />
</div>
<p>
<input type="text" id="frmEmail" name="email-Primary" size="18" maxlength="80"
value="email address" onfocus="this.value=""/>
<input type="submit" name="_qf_Edit_next" value="Sign up" />
</p>
</form>
</div><!-- /fssbox -->
</div><!-- /fsf-frame -->

<div id="gnu-banner">
<a href="/">
<strong>GNU</strong> Operating
System</a>

<p id="fsf-support">Sponsored by the <a href="#mission-statement">Free Software Foundation</a></p>
</div><!-- /gnu-banner -->
</div><!-- /header -->

<div id="navigation">
<ul>

<li id="tabAboutGNU"><a href="/gnu/gnu.html">ABOUT&nbsp;GNU</a></li>

<li id="tabPhilosophy"><a href="/philosophy/philosophy.html">PHILOSOPHY</a></li>

```



```

<li id="tabLicenses" class="active">
  <span class='no-display'>=</span>
  <a href="/licenses/licenses.html">LICENSES</a>
  <span class="gnun-split"></span>
  <span class='no-display'>=</span>
</li>

<li id="tabEducation"><a href="/education/education.html">EDUCATION</a></li>

<li id="tabSoftware"><a href="/software/software.html">SOFTWARE</a></li>

<li id="tabDoc"><a href="/doc/doc.html">DOCUMENTATION</a></li>

<li id="tabHelp"><a href="/help/help.html">HELP&nbsp;GNU</a></li>

</ul>
</div><!-- /navigation -->
<!-- end of server/body-include-2 -->

<div id="content">
<!-- end of server/banner.html -->

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<li><a href="/licenses/gpl-faq.html">Frequently Asked Questions about
  the GNU licenses</a></li>
<li><a href="/licenses/gpl-howto.html">How to use GNU licenses for your
  own software</a></li>
<li><a href="/licenses/translations.html">Translations
  of the LGPL</a></li>
<li>The GNU LGPL in other formats:
  <a href="/licenses/lgpl-3.0.txt">plain text</a>,
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  <a href="/licenses/lgpl-3.0-standalone.html">standalone HTML</a>,
  <a href="/licenses/lgpl-3.0.tex">LaTeX</a>,
  <a href="/licenses/lgpl-3.0.texi">Texinfo</a>,
  <a href="/licenses/lgpl-3.0.md">Markdown</a>,
  <a href="/licenses/lgpl-3.0.odt">ODF</a>,
  <a href="/licenses/lgpl-3.0.rtf">RTF</a></li>

```

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<hr style="clear: both;" />

<!-- The license text is in English and appears broken in RTL as Arabic, Farsi, etc. Explicitly set the direction to override the one defined in the translation. -->

<div dir="ltr">

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<p style="text-align: center;">Version 3, 29 June 2007</p>

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<ul>

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</ul></li>

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</div><!-- for id="content", starts in the include above -->

<!-- begin server/footer-text.html -->

<p id="backtotop"><a href="#header">BACK TO TOP</a></p>

<hr class="no-display" />

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<li><a href="https://h-node.org/">HARDWARE</a></li>

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<li><a href="/server/sitemap.html">SITE&nbsp;MAP</a></li>

</ul>

</div><!-- /fsf-links -->

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</div>

</div>

<!-- end of server/bottom-notes.html -->

<p class="unprintable">Updated:

<!-- timestamp start -->

\$Date: 2016/11/18 06:31:41 \$

<!-- timestamp end -->

</p>

</div>

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</body>

</html>

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-->

## 1.11 commons-beanutils 1.9.3

### 1.11.1 Available under license :

```
<!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">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<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="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<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">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

```

```

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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;&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>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org/">Overview</a></li>
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
  </ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/contributing.html">Donations</a></li>
<li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-6 col-sm-5 col-xs-12">
    

```

```

</div>
<div class="col-md-3 col-sm-3 col-xs-6">
<a href="http://apache.org/foundation/contributing.html" title="Support Apache">
  
</a>
</div>
<div class="col-md-3 col-sm-4 col-xs-6">
  <div class="input-group" style="margin-bottom: 5px;">
    <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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</pre></div></div>

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<br />

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<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="http://community.apache.org/gsoc.html">Summer of Code</a></li>

<li><a href="http://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/newbiefaq.html">Community FAQ</a></li>



```
<li><a href="/memorials/">Memorials</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
<li><a href="http://incubator.apache.org/">Incubator</a></li>
<li><a href="http://labs.apache.org/">Labs</a></li>
<li><a href="/licenses/">Licensing</a></li>
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
<li><a href="/dev/">Developer Information</a></li>
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
<li><a href="/security/">Security</a></li>
<li><a href="http://status.apache.org">Status</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
<li><a href="/press/">Overview</a></li>
<li><a href="https://blogs.apache.org/">ASF News</a></li>
<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
<li><a href="/legal/">Legal Affairs</a></li>
<li><a href="/licenses/">Licenses</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/records/">Public Records</a></li>
  <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
<li><a href="/licenses/exports/">Export Information</a></li>
<li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
  </ul>
</div>
```

```

    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>

<div class="col-sm-1">
</div>

</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright © 2017 The Apache Software Foundation, Licensed under the <a
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    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
  </div>
</div>
</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>

```

# 1.12 commons-codec 1.9

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*/
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## 1.16 commons-lang 2.6

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## 1.18 hk2-api 2.3.0

## 1.19 hk2-locator 2.3.0-b10

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/\* Jackson JSON-processor.

\*

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\*

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## 1.28 jackson-databind 2.9.5

### 1.28.1 Available under license :

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## 1.29 jackson-dataformat-yaml 2.5.4

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## 1.30 jackson-dataformat-yaml 2.9.5

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## 1.32 Java Servlet API 3.1.0

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## 1.37 javax.ws.rs-api 2.0.1

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## 1.38 jersey-client 2.12

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## 1.39 jersey-common 2.12

## 1.40 jersey-guava 2.12

## 1.41 jettison 1.3.1

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## 1.42 json 2.0131114E7

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# 1.45 osgi-resource-locator 1.0.1

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

```
<html lang="en-US">
```

```
<head>
```

```
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
```

```
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
```

```
<style type="text/css">
```

```
li {display: block;}
```

```
</style>
```

```
</head>
```

```
<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">
```

```
<h3>COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0</h3>
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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&uuml;lc&uuml;;
```

```

*/
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 { @link 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 { @link IMarkerFactory }instance in use.
     *
     * <p>The IMarkerFactory instance is usually bound with this class at
     * compile time.
     */

```

```

* @return the IMarkerFactory instance in use
*/
public static IMarkerFactory getIMarkerFactory() {
    return markerFactory;
}
}

```

## 1.49 slf4j-log4j12 1.7.7

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## 1.53 stax-api 1.0.1

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Version 3, 29 June 2007

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<thirdparty-licenses>
  <module name='ant'
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    version='1.8.2'
    projectHome='http://ant.apache.org/'
    description='ANT (compile time)'>
    <jar name='ant.jar' />
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  </module>
  <module name='Bouncy castle'
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    <jar name='bouncycastle.jar' />
  </module>
  <module name='Beanshell'
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    version='2.0b5'
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    description='Lightweight Scripting for Java. Used mainly by the BSH protocol (uncomplete) (runtime)'>
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</module>
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    version='2.5'
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    description='Annotations of JCIP'>
    <jar name='none (part of src tree: org.jgroups.annotations)' />
</module>
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    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'
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    version='6.8'
    projectHome='http://www.testng.org'
    description='Used for unit testing'>

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</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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```

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[1] <http://www.ecma-international.org/publications/standards/Ecma-376.htm>

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compiler/cpp/src/generate/t\_xsd\_generator.cc  
compiler/cpp/src/main.cc  
compiler/cpp/src/parse/t\_field.h  
compiler/cpp/src/parse/t\_program.h

compiler/cpp/src/platform.h  
 compiler/cpp/src/thriftl.ll  
 compiler/cpp/src/thrifty.yy  
 lib/csharp/src/Protocol/TBinaryProtocol.cs  
 lib/csharp/src/Protocol/TField.cs  
 lib/csharp/src/Protocol/TList.cs  
 lib/csharp/src/Protocol/TMap.cs  
 lib/csharp/src/Protocol/TMessage.cs  
 lib/csharp/src/Protocol/TMessageType.cs  
 lib/csharp/src/Protocol/TProtocol.cs  
 lib/csharp/src/Protocol/TProtocolException.cs  
 lib/csharp/src/Protocol/TProtocolFactory.cs  
 lib/csharp/src/Protocol/TProtocolUtil.cs  
 lib/csharp/src/Protocol/TSet.cs  
 lib/csharp/src/Protocol/TStruct.cs  
 lib/csharp/src/Protocol/TType.cs  
 lib/csharp/src/Server/TServer.cs  
 lib/csharp/src/Server/TSimpleServer.cs  
 lib/csharp/src/Server/TThreadPoolServer.cs  
 lib/csharp/src/TApplicationException.cs  
 lib/csharp/src/Thrift.csproj  
 lib/csharp/src/Thrift.sln  
 lib/csharp/src/TProcessor.cs  
 lib/csharp/src/Transport/TServerSocket.cs  
 lib/csharp/src/Transport/TServerTransport.cs  
 lib/csharp/src/Transport/TSocket.cs  
 lib/csharp/src/Transport/TStreamTransport.cs  
 lib/csharp/src/Transport/TTransport.cs  
 lib/csharp/src/Transport/TTransportException.cs  
 lib/csharp/src/Transport/TTransportFactory.cs  
 lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs  
 lib/csharp/ThriftMSBuildTask/ThriftBuild.cs  
 lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj  
 lib/rb/lib/thrift.rb  
 lib/st/README  
 lib/st/thrift.st  
 test/OptionalRequiredTest.cpp  
 test/OptionalRequiredTest.thrift  
 test/ThriftTest.thrift

-----  
 For the aclocal/ax\_boost\_base.m4 and contrib/fb303/aclocal/ax\_boost\_base.m4 components:

```

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```

-----  
For the compiler/cpp/src/md5.[ch] components:

/\*

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L. Peter Deutsch  
ghost@aladdin.com

\*/

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## 2.3 activemq-parent 5.9.0

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-- activemq-web

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--activemq-web-console

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== For the standardista-table-sorting.js library

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== For the css.js library

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== For the JDom library                               ==  
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$Id$
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## 2.6 ant-launcher 1.7.0

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## 2.7 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 {
```

```
    /**
```

```
     * Decodes a byte array and returns the results as a byte array.
```

```
     *
```

```
     * @param pArray A byte array which has been encoded with the
```

```
     *   appropriate encoder
```

```
     *
```

```
     * @return a byte array that contains decoded content
```

```
     *
```

```
     * @throws DecoderException A decoder exception is thrown
```

```
     *   if a Decoder encounters a failure condition during
```

```
     *   the decode process.
```

```
     */
```

```
    byte[] decode(byte[] pArray) throws DecoderException;
```

```
}
```

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

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

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

Changes in this version include:

New Features:

- o BinaryCodec: Encodes and decodes binary to and from Strings of 0s and 1s.

Issue: 27813. Thanks to Alex Karasulu.

- o QuotedPrintableCodec: Codec for RFC 1521 MIME (Multipurpose Internet Mail

Extensions) Part One. Rules #3, #4, and #5 of the quoted-printable spec are not implemented yet. See also issue 27789. Issue: 26617. Thanks to Oleg Kalnichevski.

- o BCodec: Identical to the Base64 encoding defined by RFC 1521 and allows a character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.

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

Thanks to Oleg Kalnichevski.

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

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

Fixed bugs:

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

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

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

- o Metaphone now correctly handles a silent B in a word that ends in MB.

"COMB" is encoded as "KM", before this fix "COMB" was encoded as "KMB". Issue: 28457.

- o Added missing tags in Javadoc comments.

- o General Javadoc improvements.

Changes:

- o This version is released under the Apache License 2.0 , please see

LICENSE.txt. Previous versions were released under the Apache License 1.1.

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

Have fun!

-The commons-codec team

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## 2.21 appdirs 1.4.3

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## 2.22 argparse 1.3.0

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For details about the Python License, please see doc/Python-License.txt.

#### History

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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

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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.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2	1.2	1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The

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

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## 2.25 aspectjweaver 1.8.7

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## 2.26 attr/libattr 2.4.46 :12.e17

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## 2.30 bind-libs 9.9.4-51.el7\_4.2

## 2.31 bind-libs-lite 9.9.4-51.el7\_4.2

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$f
hpz/(K8TM9M:qMG6tH6|I6X6Y6\6]6^6b6d7{e7f7l7t7u7v7w7x77Cbind-license9.9.451.el7_4.2 License of the
BIND DNS suiteContains license of the BIND DNS suite.Zeiaarch64_01.bsys.centos.orgCentOSISCCentOS
BuildSystem
<http://bugs.centos.org>Applications/Systemhttp://www.isc.org/products/BIND/linuxnoarchhAZeaZefbfb60fa045fb
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license
```

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M%M\$|@M\$|@M\$|@ME@L@LL@LL@L@L\*@LLwLa?@LXLD>@LD>@L;L7@L(L@LKuK\$@KKK[Kg  
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- 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 incorrect path in BIND sample configuration and added comment to default configuration (#1247502)- Fix CVE-2016-1285 and CVE-2016-1286- Fix CVE-2015-8704- Fix CVE-2015-8000- Fix CVE-2015-5722- Increase ISC\_SOCKET\_MAXEVENTS to 2048 (#1235609)- Fix CVE-2015-5477- Fix CVE-2015-4620- Fixed nsupdate realm auto-detection (#1214827)- Reintroduce the DISABLE\_ZONE\_CHECKING into /etc/sysconfig/named (#1236475)- Don't copy /etc/localtime on -chroot package installation (#1186773)
- Fix SPF resource records check to comply with RFC7208 (#1215164)
- Don't use ISC's DLV by default (#1223336)- Add version specific requires on bind for bind-pkcs11 (Related: #1097753)
- Resolve issues found by static analysis (Related: #1097753)- Added native PKCS#11 functionality (#1097753)- DNS resolution failure in high load environment with SERVFAIL and "out of memory/success" in the log (#1221180)- Install config for tmpfiles under % {\_tmpfilesdir} (#1180976)
- Fixed systemctl path in logrotate configuration (#1164264)
- remove information about system-config-bind from named.8 man page (#1152066)- Fix CVE-2015-1349- Fix CVE-2014-8500 (#1171976)- Fix error in dyndb API that can cause named to freeze on shutdown (#1142150)
- Fix error in triggerun scriptlet (#1143033)
- Remove /var/named/chroot/var/run on bind-chroot update if it is a directory (#1091341)- Add versioned requires on bind-libs to bind-utils and bind-sdb- Use /dev/urandom when generating rndc.key file (#1107568)
- Allow authentication using TSIG in allow-notify configuration statement (#1067424)
- Fix race condition when destroying a resolver fetch object (#1072379)
- Increase defaults for lwresd workers and make 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 rbtbd 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 nsupdate 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-rh816164.patch- update to bind-9.9.1-P3- fixed SPEC file so it comply with new systemd-rpm macros guidelines (#850045)
- changed %define macros to %global and fixed several rpmlint warnings- Changed PrivateTmp to "false" in \*-chroot.service unit files (#825869)- Fixed bind-devel multilib conflict (#478718)- Fixed bad path to systemctl in /etc/NetworkManager/dispatcher.d/13-named (#844047)
- Fixed path to libdb.so in config.dlz.in- update to 9.9.1-P2- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_18\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild)- Avoid shell invocation and dep for -libs-lite %postun.- update to 9.9.1-P1 (CVE-2012-1667)- update to 9.9.1
- bind99-coverity.patch merged
- bind-9.5-overflow.patch merged- nslookup: return non-zero exit code when fail to get answer (#816164)- initscript: don't umount /var/named when didn't mount it- apply all non-SDB patches before SDB ones (#804475)
- enable Berkeley DB DLZ backend (#804478)- bind97-rh699951.patch is no longer needed (different fix is in 9.9.0)- remove unneeded bind99-v6only.patch- update to 9.9.0
- load dynamic DBs later (and update dyndb patch)
- fix memory leak in named during processing of rndc command
- don't call `rndc-confgen -a` in "post" section
- fix some packaging bugs in bind-chroot- build with "--enable-fixed-rrset"- update to 9.9.0rc2
- 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 libnmsserver)- integrate named with libnmsserver 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](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, dnssperf needs it- new bind-libs-lite and bind-lite-devel subpkgs which contain public version of BIND 9 libraries
- don't ship devel files for internal version of BIND 9 libraries- update to 9.7.2-P2- update to 9.7.2- update to 9.7.2rc1- host: handle "debug", "attempts" and "timeout" options in resolv.conf well- update to 9.7.2b1
- patches merged
- bind97-rh507429.patch- supply root zone DNSKEY in default configuration- update to 9.7.1-P2 (CVE-2010-0213)- remove outdated Copyright.caching-nameserver file
- remove rfc1912.txt, it is already located in %doc/rfc directory
- move COPYRIGHT to the bind-libs subpkg
- add COPYRIGHT to the -pkcs11 subpkg- update to 9.7.1-P1- update to 9.7.1
- improve the "dnssec-conf" trigger- update to 9.7.1rc1

- patches merged
- bind97-keysdir.patch- update to 9.7.1b1
- make /var/named/dynamic as a default directory for managed DNSSEC keys
- add patch to get "managed-keys-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) [jgorig]- 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](https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild)- remove useless bind-9.3.3rc2-rndckey.patch- fix broken symlinks in bind-libs (#509635)
- fix typos in /etc/sysconfig/named (#509650)
- add DEBUG option to /etc/sysconfig/named (#510283)- improved "chroot automount" patches (#504596)
- host should fail if specified server doesn't respond (#507469)- 9.6.1 release
- simplify chroot maintenance. Important files and directories are mounted into chroot (see /etc/sysconfig/named for more info, #504596)
- fix doc/named.conf.default perms- 9.6.1rc1 release- update the patch for dynamic loading of database backends
- create %{\_libdir}/bind directory
- copy default named.conf to doc directory, shared with s-c-bind (atkac)- update the patch for dynamic loading of database backends
- fix dns\_db\_unregister()
- useradd now takes "-N" instead of "-n" (atkac, #495726)
- print nicer error msg when zone file is actually a directory (atkac, #490837)- 9.6.1b1 release
- patches merged
- bind-96-isc\_header.patch

- bind-95-rh469440.patch
- bind-96-realloc.patch
- bind9-fedora-0001.diff
- use -version-number instead of -version-info libtool param- logrotate configuration file now points to /var/named/data/named.run by default (#489986)- fall back to insecure mode when no supported DNSSEC algorithm is found instead of SERVFAIL
- don't fall back to non-EDNS0 queries when DO bit is set- enable DNSSEC only if it is enabled in sysconfig/dnssec- add DNSSEC support to initscript, enabled it per default
- add requires dnssec-conf- fire away libbind, it is now separate package- fixed some read buffer overflows (upstream)- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_11\\_Mass\\_Rebuild](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/sparc64 (Dennis Gilmore)
- add sparc64 to list of 64bit arches in spec (Dennis Gilmore)- updated patches due new rpm (--fuzz=0 patch parameter)- use %patch0 for Patch0 (#455061)
- correct source address (#455118)- 9.5.1b1 release (CVE-2008-1447)
- dropped bind-9.5-recv-race.patch because upstream doesn't want it- update default named.conf statements (#452708)- some compat changes to fix building on RHEL4- fixed typo in %posttrans script- parse inner acls correctly (#450995)- removed dns-keygen utility in favour of rndc-confgen -a (#449287)
- some minor sample fixes (#449274)- updated to 9.5.0 final

- use getifaddrs to find available interfaces- make /var/run/named writable by named (#448277)
- fixed one non-utf8 file- fixes needed to pass package review (#225614)- bind-chroot now depends on bind (#446477)- updated to 9.5.0rc1
- 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-recv-race.patch from F8 branch (#400461)- build Berkeley DB DLZ backend- 9.5.0b3 release
- dropped patches (upstream)
- bind-9.5-transfer-segv.patch
- bind-9.5-mudflap.patch
- bind-9.5.0-generate-xml.patch
- bind-9.5-libcap.patch- fixed named.conf.sample file (#437569)- fixed URLs- BuildRequires cleanup- rebuild without mudflap (#434159)- port named to use libcap library, enable threads (#433102)
- removed some unneeded Requires- removed conditional build with libefence (use -fmudflapth instead)
- fixed building of DLZ stuff (#432497)
- do not build Berkeley DB DLZ backend
- temporary build with --disable-linux-caps and without threads (#433102)
- update named.ca file to affect IPv6 changes in root zone- build with -D\_GNU\_SOURCE (#431734)
- improved fix for #253537, posttrans script is now used
- improved fix for #400461
- 9.5.0b2
- bind-9.3.2b1-PIE.patch replaced by bind-9.5-PIE.patch
  - only named, named-sdb and lwresd are PIE
- bind-9.5-sdb.patch has been updated
- bind-9.5-libidn.patch has been updated
- bind-9.4.0-sdb-sqlite-bld.patch replaced by bind-9.5-sdb-sqlite-bld.patch
- removed bind-9.5-gssapi-header.patch (upstream)
- removed bind-9.5-CVE-2008-0122.patch (upstream)
- removed bind-9.2.2-nsl.patch
- improved sdb\_tools Makefile.in- fixed segfault during sending notifies (#400461)
- rebuild with gcc 4.3 series- removed bind-9.3.2-prctl\_set\_dumpable.patch (upstream)
- allow parallel building of libdns library
- CVE-2008-0122- fixed initscript wait loop (#426382)
- removed dependency on policycoreutils and libselinux (#426515)- fixed regression caused by libidn2 patch (#426348)- fixed typo in post section (CVE-2007-6283)- removed obsoleted triggers
- CVE-2007-6283- added dst/gssapi.h to -devel subpackage (#419091)
- improved fix for (#417431)- fixed shutdown with initscript when rndc doesn't work (#417431)
- fixed IDN patch (#412241)- 9.5.0b1 (#405281, #392491)- Rebuild for deps- build with -O0- bind-9.5-random\_ports.patch was removed because upstream doesn't like it. query-source{,v6} options are sufficient (#391931)
- bind-chroot-admin called restorecon on /proc filesystem (#405281)- removed edns patch to keep compatibility with vanilla bind (#275091, comment #20)- use system port selector instead ISC's (#391931)- removed statement from initscript which passes -D to named- 9.5.0a7
- dropped patches (upstream)

- bind-9.5-update.patch
- bind-9.5-pool\_badfree.patch
- bind-9.5-\_res\_errno.patch- added bind-sdb again, contains SDB modules and DLZ modules
- bind-9.3.1rc1-sdb.patch replaced by bind-9.5-sdb.patch- removed Requires: openldap, postgresql, mysql, db4, unixODBC
- new L.ROOT-SERVERS.NET address- completely disable DBUS- minor cleanup in bind-chroot-admin- fixed typo in initscript- disabled DBUS (dhcdbd doesn't exist & #339191)- fixed missing va\_end () functions (#336601)
- fixed memory leak when dbus initialization fails- corrected named.5 SDB statement (#326051)- added edns patch again (#275091)- removed bind-9.3.3-edns.patch patch (see #275091 for reasons)- build with O2
- removed "autotools" patch
- bugfixing in bind-chroot-admin (#279901)- bind-9.5-2119\_revert.patch and bind-9.5-fix\_h\_errno.patch are obsoleted by upstream bind-9.5-\_res\_errno.patch- fixed wrong resolver's dispatch pool cleanup (#275011, patch from tmraz redhat com)- initscript failure message is now printed correctly (#277981, Quentin Armitage (quentin armitage org uk) )- temporary revert ISC 2119 change and add "libbind-errno" patch (#254501) again- removed end dots from Summary sections (skasal@redhat.com)
- fixed wrong file creation by autotools patch (skasal@redhat.com)- start using --disable-isc-spnego configure option
- remove bind-9.5-spnego-memory\_management.patch (source isn't compiled)- added new 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 builded 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 <jaboydj@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 9.3.3rc3, removed already merged patches- fix for #209359: bind-libs from compatlayer CD will not install on ia64- added fix for #210096: warning: group named does not exist - using root- added fix from #209400 - Bind Init Script does not create the PID file always, created by Jeff Means
- added timeout to stop section of init script.
  - The default is 100 sec. and can be adjusted by NAMED\_SHUTDOWN\_TIMEOUT shell variable.- removed chcon from %post script, replaced by restorecon (Bug 202547, comment no. 37)- updated to the latest upstream (9.3.3rc2)- added upstream patch for correct SIG handling - CVE-2006-4095- suppressed messages from bind-chroot-admin
- cleared notes about bind-config- added fix for #203522 - "bind-chroot-admin -e" command fails- fix for #203194 - tmpfile usage- fix for #202542 - /usr/sbin/bind-chroot-admin: No such file or directory
- fix for #202547 - file\_contexts: invalid context- added Provides: bind-config- fix bug 197493: renaming subpackage bind-config to caching-nameserver- fix bug 199876: make '%exclude libbbind.\*' conditional on %{LIBBIND}- fix #195881, perms are not packaged correctly- fix addenda to bug 189789: determination of selinux enabled was still not 100% correct in bind-chroot-admin
- fix addenda to bug 196398:
  - make named.init test for NetworkManager being enabled AFTER testing for -D absence; named.init now supports a 'DISABLE\_NAMED\_DBUS' /etc/sysconfig/named setting to disable auto-enable of named dbus support if NetworkManager enabled.- fix bug 196398 - Enable -D option automatically in initscript
  - if NetworkManager enabled in any runlevel.
- fix namedGetForwarders for new dbus
- fix bug 195881 - libbind.so should be owned by bind-libbind-devel- Rebuild against new dbus- rebuild with fixed glibc-kernheaders- rebuild- fix bugs 191093, 189789
- backport selected fixes from upstream bind9 'v9\_3\_3b1' CVS version:
  - ( see <http://www.isc.org/sw/bind9.3.php> "Fixes" ):
  - o change 2024 / bug 16027:
    - named emitted spurious "zone serial unchanged" messages on reload
  - o change 2013 / bug 15941:
    - handle unexpected TSIGs on unsigned AXFR/IXFR responses more gracefully
  - o change 2009 / bug 15808: coverity 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\_adderresult segfault bug 173961 addenda
  - fix bug 188382: rpm --verify permissions inconsistencies
  - fix bug 189186: use /sbin/service instead of initscript
  - rebuild for new gcc, glibc-kernheaders- fix resolver.c ncache\_adderresult segfault reported in addenda to bug 173961 (upstream bugs #15642, #15528 ?)
  - allow named ability to generate core dumps after setuid (upstream bug #15753)- fix bug 187529: make bind-chroot-admin deal with subdirectories properly- fix bug 187286:
    - prevent host(1) printing duplicate 'is an alias for' messages for the default AAAA and MX lookups as well as for the A lookup (it now uses the CNAME returned for the A lookup for the AAAA and MX lookups).
    - This is upstream bug #15702 fixed in the unreleased bind-9.3.3
  - fix bug 187333: fix SOURCE24 and SOURCE25 transposition- fix bug 186577: remove -L/usr/lib from libbind.pc 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/ifa\_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 postgres SDB .- fix bug 169969: do NOT call dbus\_svc\_dispatch() in dbus\_mgr\_init\_dbus() -
  - task->state != task\_ready and will cause Abort in task.c if process
  - is waiting for NameOwnerChanged to do a SetForwarders- Fix reconnecting to dbus-daemon after it stops & restarts .- When forwarder nameservers are changed with D-BUS, flush the cache.- fix bug 168302: use % {\_\_cc} for compiling dns-keygen
- fix bug 167682: bind-chroot directory permissions
- fix issues with -D dbus option when dbus service not running or disabled- fix bug 167062: named should be started 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 postgres'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 rndc
- Fix bug 155848: add NOTES section to named.8 man-page with info on all Red Hat BIND quirks and SELinux DDNS / slave zone file configuration
- D-BUS patches NOT applied until dhcdd 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 + postgres + dir database backend support with
  - 'ENABLE\_SDB' named.sysconfig option
- Add BIND resolver library & includes sub-package ( libbind-devel)
- fix bug 147824 / 147073 / 145664: ENABLE\_ZONE\_WRITE in named.init
- fix bug 146084 : shutup restorecon- Fix bug 143438: named.init will now make correct ownership of \$ROOTDIR/var/named
  - based on 'named\_write\_master\_zones' SELinux boolean.
- Fix bug 143744: dig & nsupdate IPv6 timeout (dup of 140528)- Upgrade BIND to 9.3.0 in Rawhide / FC4 (bugs

134529, 133654...)- Fix bugs 140528 and 141113:

- 2 second timeouts when IPv6 not configured and root nameserver's
- AAAA addresses are queried- Fix bug 136243: bind-chroot %post must run restorecon -R % {prefix }
- Fix bug 135175: named.init must return non-zero if named is not run
- Fix bug 134060: bind-chroot %post must use mktemp, not /tmp/named
- Fix bug 133423: bind-chroot %files entries should have been %dirs- BIND 9.2.4 (final release) released - source code actually
- identical to 9.2.4rc8, with only version number change.- Upgrade to upstream bind-9.2.4rc8 .
- Progress: Finally! Hooray! ISC bind now distributes:
  - o named.conf(5) and nslookup(8) manpages
  - 'bind-manpages.bz2' source can now disappear
  - (could this have something to do with ISC bug I raised about this?)
  - o 'deprecation\_msg' global has vanished
  - bind-9.2.3rc3-deprecation\_msg\_shut\_up.diff.bz2 can disappear- Fix bug 106572/132385: copy /etc/localtime to chroot on start- Fix bug 132303: if ROOTDIR line was replaced after upgrade from
  - bind-chroot-9.2.2-21, restart named- Fix bug 131803: replace ROOTDIR line removed by broken
  - bind-chroot 9.2.2-21's '%postun'; added %triggerpostun for bind-chroot- Fix bugs 130121 & 130981 for RHEL-3- Fix bug 130121: add '%ghost' entries for files included in previous
  - bind-chroot & not in current - ie. named.conf, rndc.key, dev/\* -
  - that RPM removed after upgrade .- Fix bug 130981: add '-t' option to named-checkconf invocation in
  - named.init if chroot installed.- Remove resolver(5) manpage now in man-pages (bug 130792);
  - Don't create /dev/ entries in bind-chroot if already there (bug 127556);
  - fix bind-devel Requires (bug 130919)
  - Set default location for dumpdb & stats files to /var/named/data- Fix devel Requires for bug 130738 & fix version- Fix errors on clean install if named group does not exist
  - (bug 130777)- Upgrade to bind-9.2.4rc7; applied initscript fix
  - for bug 102035.- Fixed bug 129289: bind-chroot install / deinstall
  - on install, existing config files 'safe\_replace'd
  - with links to chroot copies; on uninstall, moved back.- Fixed bug 129258: "\${prefix}/var/tmp" typo in spec- Fixed bug 127124 : 'Requires: kernel >= 2.4'
  - causes problems with Linux VServers- Fixed bug 127555 : chroot tar missing var/named/slaves- Upgraded to ISC version 9.2.4rc6- Fixed named.init generation of error messages on
  - 'service named stop' and 'service named reload'
  - as per bug 127775- Bump for 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- fix chroot to only happen once.
  - fix init script to do kill instead of killall- Add fix for SELinux security context- rebuilt- run ldconfig for libs subrpm- Use ':' instead of '.' as separator for chown.- Add COPYRIGHT- rebuilt- Add defattr to libs- Break out library package- Fix condrestart- Move libisc and libdns to bind from bind-util- Move to 9.2.3- Add PIE support- Add /var/named/slaves directory- do not link against libnsl, not needed for Linux- Fix local time in log file- Try again- Fix handling of chroot -/dev/random- Stop hammering stuff on update of chroot environment- Fix chroot directory to grab all subdirectories- New patch to support for "delegation-only"- patch support for "delegation-only"- Update to build on RHL- Install libraries as exec so debug info will be pulled- Remove BSDCOMPAT (BZ 99454)- Update to build on RHL- Change protections on /var/named and /var/chroot/named- Update to build on RHL- 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 pidfile in logrotate script (#68842)
- fix owner of logfile in logrotate script (#41391)
- fix nslookup and named.conf man pages (output on stderr) (#63553, #63560, #63561, #54889, #57457)
- add rfc1912 (#50005)
- gzip all rfc's
- fix typo in keygen.c (#54870)
- added missing manpages (#64065)
- shutdown named properly with rndc stop (#62492)
- /sbin/nologin instead of /bin/false (#68607)
- move nsupdate to bind-utils (where the manpage already was) (#66209, #66381)
- don't kill initscript when rndc fails (reload) (#58750)- Fix #65975- automated rebuild- automated rebuild- Move libisccc, 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 gprintf- Fix problems with \$GENERATE
  - Patch from Daniel Roesen <drosen@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 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 unsetting \$RPM\_OPT\_FLAGS at build-time
- actually bump the release this time- FHS compliance- clean up restart patch- provide /var/named (fix for bugs #9847, #10205)
- preserve args when restarted via ndc(8) (bug #10227)
- make resolv.conf(5) a link to resolver(5) (bug #10245)
- fix SYSTYPE bug in all makefiles
- move creation of named user from %post into %pre- Fix TTL (patch from ISC, Bug #9820)- fix typo in spec (it's %post, without a leading blank) introduced in -6
- change SYSTYPE to linux- pick a standard < 100 uid/gid for named- Pass named a '-u named' parameter by default, and add/remove user.- fix host mx bug (Bug #9021)- rebuild to fix dependencies

- man pages are compressed- It's /usr/bin/killall, not /usr/sbin/killall (Bug #8063)- Fix up location of named-bootconf.pl and make it executable (Bug #8028)
- bind-devel requires bind- update to 8.2.2-P5- update to 8.2.2-P3- add patch to stop a cache only server from complaining about lame servers on every request.- use real stop and start in named.init for restart, not ndc restart, it has problems when named has changed during a package update... (# 4890)- chkconfig --del in %preun, not %postun-init script 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.e17\_4.2bind-license-9.9.4COPYRIGHT/usr/share/doc//usr/share/doc/bind-license-9.9.4/-O2 -g -pipe -Wall -Wp,-D\_FORTIFY\_SOURCE=2 -fexceptions -fstack-protector-strong --param=ssp-buffer-size=4 -grecord-gcc-switches cpioxz2aarch64-redhat-linux-gnuidirectoryUTF-8 Unicode text?7zXZ

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IDMXek#Q`)
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YZ

## 2.33 bind-utils 9.9.4-51.el7\_4.2

## 2.34 Bootstrap 3.3.7

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```
/*!
```

```
* Bootstrap v3.1.0 (http://getbootstrap.com)
```

```
* Copyright 2011-2014 Twitter, Inc.
```

```
* Licensed under MIT (https://github.com/twbs/bootstrap/blob/master/LICENSE)
```

```
*/
```

```
if (typeof jQuery === 'undefined') { throw new Error('Bootstrap requires jQuery') }
```



```

/* =====
* Bootstrap: transition.js v3.1.0
* http://getbootstrap.com/javascript/#transitions
* =====
* Copyright 2011-2014 Twitter, Inc.
* Licensed under MIT (https://github.com/twbs/bootstrap/blob/master/LICENSE)
* ===== */

```

## 2.36 Bootstrap-datepicker 1.3.0

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```

* bootstrap-datepicker.js
* Repo: https://github.com/eternicode/bootstrap-datepicker/
* Demo: http://eternicode.github.io/bootstrap-datepicker/
* Docs: http://bootstrap-datepicker.readthedocs.org/
* Forked from http://www.eyecon.ro/bootstrap-datepicker
* =====
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```

## 2.37 bootstrap-datetimepicker 4.14.30

### 2.37.1 Available under license :

```

/*! version : 4.14.30
=====
bootstrap-datetimejs
https://github.com/Eonasdan/bootstrap-datetimepicker
Copyright (c) 2015 Jonathan Peterson
=====
*/
/*
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```

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\*/

## 2.38 bootstrap-fileinput.min 4.2.0

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Version 2, June 1991

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Version 3, 29 June 2007

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## 2.44 certifi 2018.1.18



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ca-bundle.crt -- Bundle of CA Root Certificates

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#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

## 2.45 cffi 1.11.4

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## 2.46 chardet 3.0.4

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## 2.47 cifs-utils 4.8.1-20

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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
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:

## 2.50 cmd2 0.6.8

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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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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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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.

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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

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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
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src/test/resources/CSVFileParser/test\_default.txt

src/test/resources/CSVFileParser/test\_default\_comment.txt  
src/test/resources/CSVFileParser/test\_rfc4180.txt  
src/test/resources/CSVFileParser/test\_rfc4180\_trim.txt  
src/test/resources/CSVFileParser/testCSV85.csv  
src/test/resources/CSVFileParser/testCSV85\_default.txt  
src/test/resources/CSVFileParser/testCSV85\_ignoreEmpty.txt  
These files are used as test data and test result specifications.

## 2.68 commons-csv 1.2

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src/test/resources/CSVFileParser/test\_default.txt

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src/test/resources/CSVFileParser/test\_rfc4180.txt

src/test/resources/CSVFileParser/test\_rfc4180\_trim.txt

src/test/resources/CSVFileParser/testCSV85.csv

src/test/resources/CSVFileParser/testCSV85\_default.txt

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

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## 2.78 corosynclib 2.4.3-2.el7\_5.1

## 2.79 cryptography 2.1.4

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## 2.92 distribute 0.7.3

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#### A. HISTORY OF THE SOFTWARE

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

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

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

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Release	Derived	Year	Owner	GPL-
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from	compatible? (1)			
0.9.0 thru 1.2	1991-1995	CWI		yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
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## 2.93 dogpile.cache 0.6.4

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## 2.95 dropwizard 0.9.2

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### 2.98 eclipse jdt core 3.5.1

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\* \$Id: XSD2EcoreEditorPlugin.java,v 1.6 2006/12/29 18:29:15 marcelop Exp \$

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# 2.104 ejbca 6.2.0

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

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

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

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

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If such an object file uses only numerical parameters, data structure layouts

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

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

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

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

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A clarification about the relationship between the LGPL and Java can be found on: <http://www.gnu.org/licenses/lgpl-java.html>

In short, LGPL works exactly the same way in Java or in C. I.e. using a library (jar) from an application does not make the application a derivative work that must be licensed under the LGPL.



To clarify the case for EJBCA, this means that:

The code itself (java code, tools, jars, etc) can NOT be changed without changes being put under the same licence as EJBCA.

Using the interfaces to use or integrate EJBCA in another project, without modifying EJBCA code is allowed and does not put any constraints on the product (the derived work).

Any modification to java code which is part of EJBCA should fall under LGPL.

For example creating a new MyAlgSigningSession (implementing interface ISignSession) replacing the EJBCA RSASigningSession and deploying MyAlgSigningSession by modifying src/ca/META-INF/ejb-jar.xml to use the new MyAlgSigningSession should make MyAlgSigningSession a piece of LGPL code.

Taking EJBCA and integrating it into a web application by using the interfaces to the RA (IUserAdminSession through rmi) to create users for EJBCA from another source (integrated with user registration in the application) does NOT put any constraints on the whole application itself. A notice that the application uses EJBCA and the possibility to get the source of EJBCA used in the application should be provided.

Using the plug-in APIs it is possible to add functionality to EJBCA that does not fall under the LGPL.

Implementing the plug-in API usually means implementing an interface in EJBCA and entering the classpath in a configuration page (for example custom publishers).

A custom publisher would not have to be released as LGPL.

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may

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

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



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

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(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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## 2.105 enum34 1.0.4

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## 2.112 fping 3.10-4

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## 2.114 functools32 3.2.3.post2 :py2.7

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#### A. HISTORY OF THE SOFTWARE

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes



2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.2.3	3.2.2	2012	PSF	yes

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## 2.117 glibc-common 2.17

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# 2.128 gwt 2.4.0

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\* ASM: a very small and fast Java bytecode manipulation framework

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## 2.134 HttpCore 4.3.2

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Content-Language: en

Content-type: text/html; charset=ISO-8859-1

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XX

X

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XXX  
X

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<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>

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moderators if they are either implemented or considered invalid/off-topic. Questions on how to manage the Apache
HTTP Server should be directed at either our IRC channel, #httpd, on Freenode, or sent to our <a
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<p class="apache">Copyright 2013 The Apache Software Foundation.<br />Licensed under the <a
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*
*/

```

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```

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

For the test\zb.c component:

```
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=====
```

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

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

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

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## 2.148 java Transaction API 1.1.0

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## 2.154 jboss-common-core 2.2.17.GA

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## 2.155 jcl-over-slf4j 1.7.12 1.7.12

## 2.156 JCraft JSch 0.1.51

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## 2.157 jdcal 1.3

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## 2.162 jettison 1.2

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The primary ANTLR guy:

Terence Parr  
parrt@cs.usfca.edu  
parrt@antlr.org

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/\*

File: Core.js

Description:

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

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

Some of the Basic utility functions and the Class system are based in the MooTools Framework <<http://mootools.net>>. Copyright (c) 2006-2009 Valerio Proietti, <<http://mad4milk.net/>>. MIT license <<http://mootools.net/license.txt>>.

Author:

Nicolas Garcia Belmonte

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Homepage:

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1.1.2

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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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## 2.174 jointjs 0.9.10

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/\*\*

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

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

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

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

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## 2.183 jradius-core-1.1.4 1.1.4

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## 2.185 jradius-extended 1.1.4

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## 2.189 json-simple 1.1

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## 2.196 junit 4.11 4.11

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## 2.197 jxls-2.3.0 2.3.0

## 2.198 jxls-poi-1.0.11 1.0.11

## 2.199 kafka\_2.11-100 2.11-1.0.0

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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)  
\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)  
\*  
\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.  
\* <http://www.hypermall.com/>  
\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY  
\* interrupts us (except possibly for removal/insertion of the cable?)  
\* 10/4/97 - began heavy inline documentation of the code. Corrected typos  
\* and spelling mistakes.  
\* 10/5/97 - added code to handle PHY interrupts, disable PHY on  
\* loss of link, and correctly re-enable PHY when link is  
\* re-established. (put back CFG\_PHYIE)  
\*  
\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.  
\*  
\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997  
\*  
\* Linux driver for the IDT77201 NICStAR PCI ATM controller.  
\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;  
\* see init\_nicstar() for PHY initialization to change this. This driver  
\* expects the Linux ATM stack to support scatter-gather lists  
\* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.  
\*  
\* Implementing minimal-copy of received data:  
\* IDT always receives data into a small buffer, then large buffers  
\* as needed. This means that data must always be copied to create  
\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)  
\* Fix is simple: make large buffers large enough to hold entire  
\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then  
\* copy small buffer contents to head of large buffer.  
\* Trick is to avoid fragmenting Linux, due to need for a lot of large  
\* buffers. This is done by 2 things:  
\* 1) skb->destructor / skb->atm.recycle\_buffer  
\* combined, allow nicstar\_free\_rx\_skb to be called to  
\* recycle large data buffers  
\* 2) skb\_clone of received buffers  
\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation  
\* details.  
\*  
\*  
\*  
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\* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.  
\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
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```

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for the initial saa7146 driver and its recent overhaul

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacompt.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 merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

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Version 1.0

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</para>

</sect1>

</appendix>

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## 2.202 keyutils\_GPLv2 1.5.8 :3.e17

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```
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```

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},
"jvectormap": {
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  "license": "MIT"
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}  
}

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# 2.211 libdb4 4.8.30 :13.e17

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## 2.214 libgssglue 0.4.0 :2

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## 2.215 libqb 0.17.1

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## 2.218 libvirt-client 3.9.0-14.el7\_5.5

## 2.219 libvirt-libs 3.9.0-14.el7\_5.5

## 2.220 libxslt\_GPLv2 1.1.28 :5.e17

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\* libxslt\_pipes.c: a program for performing a series of XSLT  
\* transformations

\*

\* Written by Panos Louridas, based on libxslt\_tutorial.c by John Fleck.

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## 2.222 Logback Classic Module 1.2.3

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  <meta name="viewport" content="width=device-width, initial-scale=1">
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  <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
  <meta name="msapplication-config" content="/favicons/browserconfig.xml">
  <meta name="theme-color" content="#303284">

  <title>Apache License, Version 2.0</title>
  <link href='http://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
```

```
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">
```

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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;&lt;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="#projects-list">Projects</a></li>
```

```
<li class="dropdown">
```

```

    <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org/">Overview</a></li>
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
    </ul>
</li>
<li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
<li><a href="http://community.apache.org/">Community Development</a></li>
<li><a href="http://www.apachecon.com/">ApacheCon</a></li>
    </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/contributing.html">Donations</a></li>
<li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html">Thanks</a></li>
    </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
<div class="col-md-9 col-sm-8 col-xs-12">
    
</div>
<div class="col-md-3 col-sm-4 col-xs-12">
    <div class="input-group" style="margin-bottom: 5px;">
<input type="text" class="form-control" id="projectSearch" placeholder="Search...">
<span class="input-group-btn">
    <button class="btn btn-primary" type="button"><span class="glyphicon glyphicon-search" aria-
hidden="true"></span><span class="sr-only">Search</span></button>
    </span>
</div>

```

[The Apache Way](/foundation/governance/)  
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</div>

</div>

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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

```
<div class="container">
```

```
<div class="row">
```

```
<br />
```

```
<div class="col-sm-1">
```

```
</div>
<div class="col-sm-2">
  <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="http://community.apache.org/gsoc.html">Summer of Code</a></li>
    <li><a href="http://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/newbiefaq.html">Community FAQ</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```



```
<div class="col-sm-2">
  <h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright © 2015 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
  </div>
</div>
</div>
```

```
</footer>
```

```
<!-- / Footer -->
```

```
<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

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<script>
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(i[r].q=i[r].q||[]).push(arguments)},i[r].l=1*new Date();a=s.createElement(o),
m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBefore(a,m
)})(window,document,'script','//www.google-analytics.com/analytics.js','ga');

ga('create', 'UA-89734-10', 'auto');
ga('send', 'pageview');

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<li class="n1-news"><a href="/news/">News</a></li>
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<span class="seperator">&raquo;</span> jsoup License
</div>
<div class="content">
<div class="col1">
<h1>jsoup License</h1>
<p>The jsoup code-base (include source and compiled packages) are distributed under the open source MIT
license as described below.</p>
<h3>The MIT License</h3>
<p>Copyright &copy; 2009 - 2013 <a href="http://jonathanhedley.com">Jonathan Hedley</a> (<a
href="mailto:jonathan@hedley.net">jonathan@hedley.net</a></p>
<p>Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated

```

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```
</div>
<!-- /col1 -->
<div class="col2">
</div>
<!-- /col2 -->
</div>
<!-- /content-->
<div class="footer">
<b>jsoup HTML parser</b> &copy; 2009 - 2015
<a href="http://jhy.io/" rel="author"><b>Jonathan Hedley</b></a>
</div>
</div>
<!-- /wrap -->
<script src="/rez/prettify.js"></script>
<script>prettyPrint();</script>
</body>
</html>
```

Maven Artifact

Copyright 2001-2015 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (<http://www.apache.org/>).

The following is a list of people who have contributed ideas, code, bug reports, or in general have helped logstash along its way.

Contributors:

- \* Christian Paredes (cparedes)
- \* Colin Surprenant (colinsurprenant)
- \* Jay Luker (lbjay)
- \* John E. Vincent (luis)
- \* Jordan Sissel (jordansissel)
- \* Joo Duarte (jsvd)
- \* Laust Rud Jacobsen (rud)
- \* Nikolay Bryskin (nikicat)
- \* Pete Fritchman (fetep)
- \* Philippe Weber (wiibaa)

- \* Pier-Hugues Pellerin (ph)
- \* Richard Pijenburg (electrical)
- \* Suyog Rao (suyograo)
- \* hal-awesome

Note: If you've sent us patches, bug reports, or otherwise contributed to Logstash, and you aren't on the list above and want to be, please let us know and we'll make sure you're here. Contributions from folks like you are what make open source awesome.

The following is a list of people who have contributed ideas, code, bug reports, or in general have helped logstash along its way.

Contributors:

- \* Graham Bleach (bleach)
- \* James Turnbull (jamtur01)
- \* John E. Vincent (luis)
- \* Jordan Sissel (jordansissel)
- \* Kurt Hurtado (kurtado)
- \* Pete Fritchman (fetep)
- \* Philippe Weber (wiibaa)
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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.0//EN"
"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">
```

```
<head profile="http://www.w3.org/1999/xhtml/vocab">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" /><script
type="text/javascript">window.NREUM||(NREUM={}),__nr_require=function(n,e,t){function r(t){if(!e[t]){var
o=e[t]={exports: {}};n[t][0].call(o.exports,function(e){var o=n[t][1][e];return r(o?o:e)},o,o.exports)}return
```

```

e[t].exports}if("function"===typeof __nr_require)return __nr_require;for(var o=0;o<t.length;o++)r(t[o]);return
r)({QJf3ax:[function(n,e){function t(n){function e(e,t,a){n&&n(e,t,a),a||(a={});for(var
u=c(e),f=u.length,s=i(a,o,r),p=0;f>p;p++)u[p].apply(s,t);return s}function a(n,e){f[n]=c(n).concat(e)}function
c(n){return f[n]||[]}function u(o){return t(e)}var f={};return{on:a,emit:e,create:u,listeners:c,_events:f}}function
r(o){return{}}var
o="nr@context",i=n("gos");e.exports=t(),{gos:"7eSDFh"}},ee:[function(n,e){e.exports=n("QJf3ax")},{},3:[functi
on(n,e){function t(n){return function(o){r(n,[(new Date).getTime()].concat(i(arguments)))}}var
r=n("handle"),o=n(1),i=n(2);"undefined"===typeof window.newrelic&&(newrelic=window.NREUM);var
a=["setPageViewName","addPageAction","setCustomAttribute","finished","addToTrace","inlineHit","noticeError"]
;o(a,function(n,e){window.NREUM[e]=t("api-
"+e)}),e.exports=window.NREUM},{1:12,2:13,handle:"D5DuLP"}},gos:[function(n,e){e.exports=n("7eSDFh")},{},
],7eSDFh:[function(n,e){function t(n,e,t){if(r.call(n,e))return n[e];var
o=t();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
r=Object.prototype.hasOwnProperty;e.exports=t(),{}}],D5DuLP:[function(n,e,t){return
r.listeners(n).length?r.emit(n,e,t):(o[n]||o[n]=[]),void o[n].push(e)}var
r=n("ee").create(),o={};e.exports=t,t.ee=r,r.q=o,{ee:"QJf3ax"},handle:[function(n,e){e.exports=n("D5DuLP")},{},
],XL7HBI:[function(n,e){function t(n){var e=typeof n;return!n||"object"!==e&&"function"!==e?-
1:n===window?0:i(n,o,function(){return r++})}var
r=1,o="nr@id",i=n("gos");e.exports=t(),{gos:"7eSDFh"},id:[function(n,e){e.exports=n("XL7HBI")},{},loader:[fu
nction(n,e){e.exports=n("G9z0BI")},{},G9z0BI:[function(n,e){function t(o){var
n=h.info=NREUM.info;if(n&&n.licenseKey&&n.applicationID&&f&&f.body){c(l,function(e,t){e in
n||(n[e]=t)},h.proto="https"===d.split(":")[0]||n.sslForHttp?"https://":"http://",a("mark",["onload",i]));var
e=f.createElement("script");e.src=h.proto+n.agent,f.body.appendChild(e)}function
r(o){"complete"===f.readyState&&o()}function o(o){a("mark",["domContent",i()])}function i(o){return(new
Date).getTime()}var
a=n("handle"),c=n(1),u=(n(2),window),f=u.document,s="addEventListener",p="attachEvent",d=("" +location).split("
?")[0],l=[{beacon:"bam.nr-data.net",errorBeacon:"bam.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[p]("onload",t)),a("mark",["firstbyte",i()])},{1:12,2:3,handle:"D5DuLP"}},12:[function
(n,e){function t(n,e){var t=[],o="",i=0;for(o in n)r.call(n,o)&&(t[i]=e(o,n[o]),i+=1);return t}var
r=Object.prototype.hasOwnProperty;e.exports=t(),{}}],13:[function(n,e){function
t(n,e,t){e||(e=0),"undefined"===typeof t&&(t=n?n.length:0);for(var r=-1,o=t-
e|0,i=Array(0>o?0:o);++r<o;)i[r]=n[e+r];return i}e.exports=t(),{}}],{"G9z0BI"}];</script>
<link rel="shortcut icon" href="http://opensource.org/files/garland_favicon.png" type="image/png" />
<link rel="shortlink" href="/node/66" />
<link rel="canonical" href="/licenses/MIT" />
<meta name="Generator" content="Drupal 7 (http://drupal.org)" />
<title>The MIT License (MIT) | Open Source Initiative</title>
<link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_xE-rWrJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
<link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_iABekW8OXxt1yff1_vg0sDV7lt8KP5iiCy47vQtDcDM.css" media="all"
/>
<link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2wI77kyP-
rJKVpFW5M3KFcj7Cb99lZalmubKIwWwsmU.css" media="all" />
<link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_k3snrbsthqot7V7ccRZHS9OkCZkwBv4adtNieIV1bEU.css" media="print"

```



```

/>

<!--[if lt IE 7]>
<link type="text/css" rel="stylesheet" href="http://opensource.org/themes/garland/fix-ie.css?nm6pyr" media="all"
/>
<![endif]-->
<script type="text/javascript"
src="http://opensource.org/files/js/js_xAPI0qIk9eowy_iS9tNkCWXLUVoat94SQT48UBCFkyQ.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{"basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"garland","theme_token":"TKd5spQJ1FZy1HcRPHddEz
QI2t1pN5d2ECTqeeBIriw"},"js":{"misc\/jquery.js":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1},"css":{"modules\/s
ystem\/system.base.css":1,"modules\/system\/system.menus.css":1,"modules\/system\/system.messages.css":1,"mod
ules\/system\/system.theme.css":1,"modules\/aggregator\/aggregator.css":1,"modules\/comment\/comment.css":1,"m
odules\/field\/theme\/field.css":1,"sites\/all\/modules\/mollom\/mollom.css":1,"modules\/node\/node.css":1,"modules
\/search\/search.css":1,"modules\/user\/user.css":1,"themes\/garland\/style.css":1,"themes\/garland\/print.css":1,"the
mes\/garland\/fix-ie.css":1}}});
//--><![ ]>
</script>
</head>
<body class="html not-front not-logged-in one-sidebar sidebar-first page-node page-node- page-node-66 node-type-
page fluid-width" >
<div id="skip-link">
<a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
</div>

<div id="wrapper">
<div id="container" class="clearfix">

<div id="header">
<div id="logo-floater">
<div id="branding"><strong><a href="">

<span>Open Source Initiative</span> </a></strong></div>
</div>

</div> <!-- /#header -->

<div id="sidebar-first" class="sidebar">
<div class="region region-sidebar-first">
<div id="block-search-form" class="block block-search clearfix">

<h2 class="title">Search this site:</h2>

<div class="content">
<form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-

```

```

8"><div><div class="container-inline">
  <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><input type="hidden" name="form_build_id" value="form-
rEfcjT7gTkMTZcUGzW6YAp3kLEQXg4IT9guWcgGk01I" />
  <input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form> </div>
</div>
<div id="block-system-navigation" class="block block-system block-menu clearfix">

  <h2 class="title">Navigation</h2>

  <div class="content">
    <ul class="menu"><li class="first collapsed"><a href="/about" title="About the Open Source Initiative">About
the OSI</a></li>
<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">Open Source Licenses</a></li>
<li class="leaf"><a href="/working_groups">Working Groups</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="/trademark" title="Information about trademark and logo usage">Trademark and
Logo Usage</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's work gets
done">Mailing lists</a></li>
<li class="collapsed"><a href="/help" title="Resources for questions and further exploration">Getting
Help</a></li>
<li class="collapsed"><a href="http://opensource.org/donate" title="">Donate to the OSI</a></li>
<li class="leaf"><a href="/members">OSI Individual Membership</a></li>
<li class="leaf"><a href="/store">OSI Store</a></li>
<li class="collapsed"><a href="/affiliates" title="Home page for OSI's membership scheme for non-profits
and not-for-profits">OSI Affiliate Membership</a></li>
<li class="leaf"><a href="/contact" title="">Contact OSI</a></li>
<li class="leaf"><a href="/ToS" title="Rules for posting content on this site">Terms of Service</a></li>
<li class="last leaf"><a href="/support">OSI Corporate Support</a></li>
</ul> </div>
</div>
</div>
</div>

```

```
<div id="center"><div id="squeeze"><div class="right-corner"><div class="left-corner">
  <h2 class="element-invisible">You are here</h2><div class="breadcrumb"><a href="/">Home</a></div>
  <a id="main-content"></a>
  <div id="tabs-wrapper" class="clearfix">
    <h1 class="with-tabs">The MIT License
(MIT)</h1>
    </div>
    <div class="clearfix">
      <div class="region region-content">
<div id="block-system-main" class="block block-system clearfix">

<div class="content">
  <div id="node-66" class="node node-page">
```

```
<div class="content clearfix">
  
  <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p>The MIT License (MIT)</p>
<p>Copyright (c) <year> <copyright holders></p>
<p>Permission is hereby granted, free of charge, to any person obtaining a copy<br />
of this software and associated documentation files (the "Software"), to deal<br />
in the Software without restriction, including without limitation the rights<br />
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell<br />
copies of the Software, and to permit persons to whom the Software is<br />
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IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,<br />
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE<br />
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER<br />
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,<br />
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN<br />
THE SOFTWARE.</p>
</div></div></div> </div>
```

```
<div class="clearfix">
  <div class="links"></div>

</div>
```

```
</div>
</div>
```

```

</div>
</div>
  </div>
    <div class="region region-footer">
      <div id="block-block-11" class="block block-block clearfix">

        <div class="content">
          <p style="text-align:center">Help shape the future of the Open Source Initiative...<br /><a href="http://osi.xwiki.com">visit and participate in the OSI wiki</a>.
        </p>

        <div>
          <p><a href="https://plus.google.com/+opensourceinitiative" rel="publisher">Google+</a></p>
          <a href="https://twitter.com/OpenSourceOrg" class="twitter-follow-button" data-show-count="false" data-lang="en">Follow @OpenSourceOrg</a>
          <script>
            <!--//--><![CDATA[// ><!--
            !function(d,s,id){ var
            js,fjs=d.getElementsByTagName(s)[0];if(!d.getElementById(id)){js=d.createElement(s);js.id=id;js.src="//platform.t
            witter.com/widgets.js";fjs.parentNode.insertBefore(js,fjs);}}(document,"script","twitter-wjs");
            //--><![]]>
          </script></div>

          <p>
            <!-- Creative Commons License --><a rel="license" href="http://creativecommons.org/licenses/by/4.0/"></a><br />Opensource.org site content is licensed under a <a rel="license" href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International License</a>.<!-- /Creative Commons License -->

            <!-- <rdf:RDF xmlns="http://web.resource.org/cc/" xmlns:dc="http://purl.org/dc/elements/1.1/"
            xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
            <Work rdf:about="">
              <license rdf:resource="http://creativecommons.org/licenses/by/3.0/" />
            </Work>
            <License rdf:about="http://creativecommons.org/licenses/by/3.0/"><permits
            rdf:resource="http://web.resource.org/cc/Reproduction"/><permits
            rdf:resource="http://web.resource.org/cc/Distribution"/><requires
            rdf:resource="http://web.resource.org/cc/Notice"/><requires
            rdf:resource="http://web.resource.org/cc/Attribution"/><permits
            rdf:resource="http://web.resource.org/cc/DerivativeWorks"/></License></rdf:RDF>
            -->

            | <a href=" ../ToS">Terms of Service</a>

          </p>
        </div>

```

```

</div>
<div id="block-block-7" class="block block-block clearfix">

<div class="content">
  <script src="http://www.google-analytics.com/urchin.js" type="text/javascript">
<!--/--><![CDATA[// ><!--

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

_uacct = "UA-3916956-1";
urchinTracker();

//--><!]]>
</script> </div>
</div>
</div>
  </div></div></div></div> <!-- /.left-corner, /.right-corner, /#squeeze, /#center -->

  </div> <!-- /#container -->
</div> <!-- /#wrapper -->
<script type="text/javascript">window.NREUM||(NREUM={});NREUM.info={"beacon":"bam.nr-
data.net","licenseKey":"53c69192ac","applicationID":"224050","transactionName":"b1dRZkQCXEEHAEVRXFYd
ZkBfTFtcAgZJFkNQQg==","queueTime":0,"applicationTime":28,"ttGuid":"","agentToken":"","atts":"QxBSEAwY
T08=","errorBeacon":"bam.nr-data.net","agent":"js-agent.newrelic.com/nr-593.min.js"}</script></body>
</html>

```

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- \* Jordan Sissel (jordansissel)
- \* Joo Duarte (jsvd)
- \* Nick Ethier (nickethier)
- \* Pier-Hugues Pellerin (ph)
- \* Richard Pijnenburg (electrical)
- \* Suyog Rao (suyograo)

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- \* Aaron Mildenstein (untergeek)
- \* Adam Tucker (adamjt)
- \* John Pariseau (ururk)
- \* Jordan Sissel (jordansissel)
- \* Mathieu Guillaume (mguillaume)
- \* Pier-Hugues Pellerin (ph)
- \* Richard Pijnenburg (electrical)
- \* Suyog Rao (suyograo)
- \* Ted Timmons (tedder)
- \* Ryan O'Keeffe (danielredoak)

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Maven Settings

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Maven Model

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Contributors:

- \* Adrien Anceau (nwknu)
- \* Bernd Ahlers (bernd)
- \* Brad Ison (bison)
- \* Colin Surprenant (colinsurprenant)
- \* James Turnbull (jamtur01)
- \* Joel Merrick (joelio)
- \* John E. Vincent (luis)
- \* Jordan Sissel (jordansissel)
- \* Joshua Busssdieker (jbusssdieker)
- \* Kurt Hurtado (kurtado)
- \* Pete Fritchman (fetep)
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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
```

```
<html lang="en">
```

```
<head>
```

```
<title>Apache License, Version 2.0</title>
```

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

```
<meta property="og:image" content="http://www.apache.org/images/asf_logo.gif" />
```

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

```
<link rel="stylesheet" type="text/css" media="screen" href="/css/code.css">
```

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

```
<!-- Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements. See
the NOTICE file distributed with this work for additional information regarding copyright ownership. The ASF
licenses this file to you under the Apache License, Version 2.0 (the "License"); you may not use this file except in
compliance with the License. You may obtain a copy of the License at . http://www.apache.org/licenses/LICENSE-
2.0 . Unless required by applicable law or agreed to in writing, software distributed under the License is distributed
on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and limitations under the License. -->
</head>
```

```
<body>
<div id="page" class="container_16">
  <div id="header" class="grid_8">
    
    <h1>The Apache Software Foundation</h1>
    <h2>Apache License, Version 2.0</h2>
  </div>
  <div id="nav" class="grid_8">
    <ul>
      <!-- <li><a href="/" title="Welcome!">Home</a></li> -->
      <li><a href="/foundation/" title="The Foundation">Foundation</a></li>
      <li><a href="http://projects.apache.org" title="The Projects">Projects</a></li>
      <li><a href="http://people.apache.org" title="The People">People</a></li>
      <li><a href="/foundation/getinvolved.html" title="Get Involved">Get Involved</a></li>
      <li><a href="/dyn/closer.cgi" title="Download">Download</a></li>
      <li><a href="/foundation/sponsorship.html" title="Support Apache">Support Apache</a></li>
    </ul>
    <p><a href="/">Home</a> &nbsp;&raquo;&nbsp;&nbsp;<a href="/licenses/">Licenses</a></p>
    <form name="search" id="search" action="http://www.google.com/search" method="get">
      <input value="apache.org" name="sitesearch" type="hidden"/>
      <input type="text" name="q" id="query">
      <input type="submit" id="submit" value="Search">
    </form>
  </div>
  <div class="clear"></div>
  <div id="content" class="grid_16"><div class="section-content"><p>Apache License<br></br>Version 2.0,
January 2004<br></br>
<a href="http://www.apache.org/licenses/">http://www.apache.org/licenses/</a> </p>
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distribution as defined by Sections 1 through 9 of this document.</p>
<p>"Licensor" shall mean the copyright owner or entity authorized by the
```



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<br/>

<br/>

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</ol>

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## <h1 id="apply">APPENDIX: How to apply the Apache License to your work</h1>

<p>To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.</p>

```
<div class="codehilite"><pre>  <span class="p">:::</span><span class="n">text</span>
  <span class="n">Copyright</span> <span class="p">[</span><span class="n">yyyy</span><span class="n">
class="p">]</span> <span class="p">[</span><span class="n">name</span> <span class="n">of</span> <span class="n">
class="n">copyright</span> <span class="n">owner</span><span class="p">]</span>

  <span class="n">Licensed</span> <span class="n">under</span> <span class="n">the</span> <span class="n">
class="n">Apache</span> <span class="n">License</span><span class="p">,</span> <span class="n">
class="n">Version</span> 2<span class="p">.</span><span class="n">0 <span class="p">(</span><span class="n">the</span>
"<span class="n">License</span>"<span class="p">);</span>
  <span class="n">you</span> <span class="n">may</span> <span class="n">not</span> <span class="n">
class="n">use</span> <span class="n">this</span> <span class="n">file</span> <span class="n">except</span>
<span class="n">in</span> <span class="n">compliance</span> <span class="n">with</span> <span class="n">
class="n">the</span> <span class="n">License</span><span class="p">.</span>
  <span class="n">You</span> <span class="n">may</span> <span class="n">obtain</span> <span class="n">
class="n">a</span> <span class="n">copy</span> <span class="n">of</span> <span class="n">the</span> <span class="n">
class="n">License</span> <span class="n">at</span>

  <span class="n">http</span><span class="p">:</span><span class="o">//</span><span class="n">
class="n">www</span><span class="p">.</span><span class="n">apache</span><span class="p">.</span><span class="n">
class="n">org</span><span class="o">.</span><span class="n">licenses</span><span class="o">.</span><span class="n">
class="n">LICENSE</span><span class="o">-</span>2<span class="p">.</span><span class="n">0

  <span class="n">Unless</span> <span class="n">required</span> <span class="n">by</span> <span class="n">
class="n">applicable</span> <span class="n">law</span> <span class="n">or</span> <span class="n">
class="n">agreed</span> <span class="n">to</span> <span class="n">in</span> <span class="n">
class="n">writing</span><span class="p">,</span> <span class="n">software</span>
  <span class="n">distributed</span> <span class="n">under</span> <span class="n">the</span> <span class="n">
class="n">License</span> <span class="n">is</span> <span class="n">distributed</span> <span class="n">
class="n">on</span> <span class="n">an</span> " <span class="n">AS</span> <span class="n">IS</span>" <span class="n">
class="n">BASIS</span><span class="p">,</span>
  <span class="n">WITHOUT</span> <span class="n">WARRANTIES</span> <span class="n">OR</span>
<span class="n">CONDITIONS</span> <span class="n">OF</span> <span class="n">ANY</span> <span class="n">
class="n">KIND</span><span class="p">,</span> <span class="n">either</span> <span class="n">
class="n">express</span> <span class="n">or</span> <span class="n">implied</span><span class="p">.</span>
  <span class="n">See</span> <span class="n">the</span> <span class="n">License</span> <span class="n">
class="k">for</span> <span class="n">the</span> <span class="n">specific</span> <span class="n">
class="n">language</span> <span class="n">governing</span> <span class="n">permissions</span> <span class="n">
```

```

class="n">and</span>
  <span class="n">limitations</span> <span class="n">under</span> <span class="n">the</span> <span
class="n">License</span><span class="p">.</span>
</pre></div></div></div>
  <div class="clear"></div>
</div>
<div id="footer" class="container_16">
  <div class="links_grid_16">
    <div class="grid_3">
      <h4>Projects</h4>
      <ul>
<li><a href="http://httpd.apache.org/" title="Apache Web Server (httpd)">HTTP Server</a></li>
<li><a href="http://abdera.apache.org/" title="Atom Publishing Protocol Implementation">Abdera</a></li>
<li><a href="http://accumulo.apache.org/" title="Sorted, distributed key/value store">Accumulo</a></li>
<li><a href="http://ace.apache.org/" title="Centralized life cycle management and deployment of OSGi based and
related modular software artifacts for distribution.">ACE</a></li>
<li><a href="http://activemq.apache.org/" title="Distributed Messaging System">ActiveMQ</a></li>
<li><a href="http://airavata.apache.org/" title="Workflow and Computational Job Management
Middleware">Airavata</a></li>
<li><a href="http://ant.apache.org/" title="Java-based build tool">Ant</a></li>
<li><a href="http://any23.apache.org/" title="Anything to Triples">Any23</a></li>
<li><a href="http://apr.apache.org/" title="Apache Portable Runtime libraries">APR</a></li>
<li><a href="http://archiva.apache.org/" title="Build Artifact Repository Manager">Archiva</a></li>
<li><a href="http://aries.apache.org/" title="Enterprise OSGi application programming model">Aries</a></li>
<li><a href="http://avro.apache.org/" title="A Serialization System">Avro</a></li>
<li><a href="http://axis.apache.org/" title="Java SOAP Engine">Axis</a></li>
<li><a href="http://bigtop.apache.org/" title="Apache Hadoop ecosystem integration and distribution
project">Bigtop</a></li>
<li><a href="http://bloodhound.apache.org/" title="Issue tracking, wiki and repository
browser">Bloodhound</a></li>
<li><a href="http://buildr.apache.org/" title="Simple and intuitive build system for Java
applications">Buildr</a></li>
<li><a href="http://bval.apache.org/" title="Apache BVal: JSR-303 Bean Validation Implementation and
Extensions">BVal</a></li>
<li><a href="http://camel.apache.org/" title="Spring based Integration Framework which implements the Enterprise
Integration Patterns">Camel</a></li>
<li><a href="http://cassandra.apache.org/" title="Highly scalable second-generation distributed
database">Cassandra</a></li>
<li><a href="http://cayenne.apache.org/" title="User-friendly Java ORM with Tools">Cayenne</a></li>
<li><a href="http://chemistry.apache.org/" title="CMIS (Content Managment Interoperability Services) Clients and
Servers">Chemistry</a></li>
<li><a href="http://clerezza.apache.org/" title="Semantically linked data for OSGi">Clerezza</a></li>
<li><a href="http://click.apache.org/" title="User-friendly page and component oriented web
framework">Click</a></li>
<li><a href="http://cloudstack.apache.org/" title="Infrastructure as a Service solution">CloudStack</a></li>
<li><a href="http://cocoon.apache.org/" title="Web development framework: separation of concerns, component-
based">Cocoon</a></li>
<li><a href="http://commons.apache.org/" title="Reusable Java components">Commons</a></li>

```

- <li><a href="http://continuum.apache.org/" title="Continuous Integration and Build Server">Continuum</a></li>
- <li><a href="http://cordova.apache.org/" title="Platform for building native mobile applications using HTML, CSS and JavaScript">Cordova</a></li>
- <li><a href="http://couchdb.apache.org/" title="RESTful document database">CouchDB</a></li>
- <li><a href="http://creadur.apache.org/" title="Comprehension and auditing of software distributions">Creadur</a></li>
- <li><a href="http://crunch.apache.org/" title="Simple and Efficient MapReduce Pipelines">Crunch</a></li>
- <li><a href="http://ctakes.apache.org/" title="Natural language processing (NLP) tool for information extraction from electronic medical record clinical free-text">cTAKES</a></li>
- <li><a href="http://cxf.apache.org/" title="Service Framework">CXF</a></li>
- <li><a href="http://db.apache.org/" title="Database access">DB</a></li>
- <li><a href="http://deltacloud.apache.org/" title="RESTful cloud management interface">Deltacloud</a></li>
- <li><a href="http://directory.apache.org/" title="Apache Directory Server">Directory</a></li>
- <li><a href="http://empire-db.apache.org/" title="Relational Data Persistence">Empire-db</a></li>
- <li><a href="http://esme.apache.org/" title="Enterprise Social Messaging Environment">ESME</a></li>
- <li><a href="http://etch.apache.org/" title="Cross-platform, language- and transport-independent RPC-like messaging framework">Etch</a></li>
- <li><a href="http://felix.apache.org/" title="OSGi Framework and components.">Felix</a></li>
- <li><a href="http://flex.apache.org/" title="Application framework for expressive web applications that deploy to all major browsers, desktops and devices.">Flex</a></li>
- <li><a href="http://flume.apache.org/" title="A reliable service for efficiently collecting, aggregating, and moving large amounts of log data">Flume</a></li>
- <li><a href="http://forrest.apache.org/" title="Aggregated multi-channel documentation, separation of concerns">Forrest</a></li>
- <li><a href="http://geronimo.apache.org/" title="Java2, Enterprise Edition (J2EE) container">Geronimo</a></li>
- <li><a href="http://giraph.apache.org/" title="Iterative graph processing system built for high scalability">Giraph</a></li>
- <li><a href="http://gora.apache.org/" title="ORM framework for column stores such as Apache HBase and Apache Cassandra with a specific focus on Hadoop">Gora</a></li>
- <li><a href="http://gump.apache.org/" title="Continuous integration of open source projects">Gump</a></li>
- <li><a href="http://hadoop.apache.org/" title="Distributed computing platform">Hadoop</a></li>
- <li><a href="http://hama.apache.org/" title="a Bulk Synchronous Parallel computing framework on top of Hadoop">Hama</a></li>
- <li><a href="http://hbase.apache.org/" title="Hadoop Database">HBase</a></li>
- <li><a href="http://hive.apache.org/" title="Data warehouse infrastructure using the Hadoop Database">Hive</a></li>
- <li><a href="http://hc.apache.org/" title="Java toolset of low level HTTP components">HttpComponents</a></li>
- <li><a href="http://isis.apache.org/" title="Framework for rapidly developing domain-driven apps in Java">Isis</a></li>
- <li><a href="http://jackrabbit.apache.org/" title="Content Repository for Java">Jackrabbit</a></li>
- <li><a href="http://james.apache.org/" title="Java Apache Mail Enterprise Server">James</a></li>
- <li><a href="http://jena.apache.org/" title="Java framework for building Semantic Web applications">Jena</a></li>
- <li><a href="http://jmeter.apache.org/" title="Java performance and functional testing">JMeter</a></li>
- <li><a href="http://juddi.apache.org/" title="Java implementation of the Universal Description, Discovery, and Integration specification">jUDDI</a></li>
- <li><a href="http://kafka.apache.org/" title="Distributed publish-subscribe messaging system">Kafka</a></li>
- <li><a href="http://karaf.apache.org/" title="Server-side OSGi distribution">Karaf</a></li>

- <li><a href="http://lenya.apache.org/" title="Content Management System">Lenya</a></li>
- <li><a href="http://libcloud.apache.org/" title="Unified interface to the cloud">Libcloud</a></li>
- <li><a href="http://logging.apache.org/" title="Cross-language logging services">Logging</a></li>
- <li><a href="http://lucene.apache.org/" title="Search engine library">Lucene</a></li>
- <li><a href="http://lucy.apache.org/" title="Search engine library for dynamic languages">Lucy</a></li>
- <li><a href="http://mahout.apache.org/" title="Scalable machine learning library">Mahout</a></li>
- <li><a href="http://manifoldcf.apache.org/" title="Framework for connecting source content repositories to target repositories or indexes.">ManifoldCF</a></li>
- <li><a href="http://maven.apache.org/" title="Java project management and comprehension tools">Maven</a></li>
- <li><a href="http://mina.apache.org/" title="Multipurpose Infrastructure for Network Application">MINA</a></li>
- <li><a href="http://mrunit.apache.org/" title="Java library that helps developers unit test Apache Hadoop map reduce jobs">MRUnit</a></li>
- <li><a href="http://myfaces.apache.org/" title="JavaServer(tm) Faces implementation and components">MyFaces</a></li>
- <li><a href="http://nutch.apache.org/" title="Open Source Web Search Software">Nutch</a></li>
- <li><a href="http://ode.apache.org/" title="Orchestration Director Engine: Business Process Management (BPM), Process Orchestration and Workflow through service composition.">ODE</a></li>
- <li><a href="http://ofbiz.apache.org/" title="Open for Business: enterprise automation software">OFBiz</a></li>
- <li><a href="http://oltu.apache.org/" title="OAuth protocol implementation in Java">Oltu</a></li>
- <li><a href="http://onami.apache.org/" title="Development and maintenance of a set of Google Guice extensions">Onami</a></li>
- <li><a href="http://oodt.apache.org/" title="Object Oriented Data Technology (middleware metadata)">OODT</a></li>
- <li><a href="http://oozie.apache.org/" title="A workflow scheduler system to manage Apache Hadoop jobs.">Oozie</a></li>
- <li><a href="http://openjpa.apache.org/" title="OpenJPA: Object Relational Mapping for Java">OpenJPA</a></li>
- <li><a href="http://openmeetings.apache.org/" title="OpenMeetings: Web-Conferencing and real-time collaboration">OpenMeetings</a></li>
- <li><a href="http://opennlp.apache.org/" title="Machine learning based toolkit for the processing of natural language text">OpenNLP</a></li>
- <li><a href="http://openoffice.apache.org/" title="An open-source, office-document productivity suite">OpenOffice</a></li>
- <li><a href="http://openwebbeans.apache.org/" title="OpenWebBeans: JSR-299 Context and Dependency Injection for Java EE Platform Implementation">OpenWebBeans</a></li>
- <li><a href="http://pdfbox.apache.org/" title="Java library for working with PDF documents">PDFBox</a></li>
- <li><a href="http://perl.apache.org/" title="Dynamic websites using Perl">Perl</a></li>
- <li><a href="http://pig.apache.org/" title="Platform for analyzing large data sets">Pig</a></li>
- <li><a href="http://pivot.apache.org/" title="Rich Internet applications in Java">Pivot</a></li>
- <li><a href="http://poi.apache.org/" title="Java API for OLE 2 Compound and OOXML Documents">POI</a></li>
- <li><a href="http://portals.apache.org/" title="Portal technology">Portals</a></li>
- <li><a href="http://qpuid.apache.org/" title="Multiple language implementation of the latest Advanced Message Queuing Protocol (AMQP)">Qpid</a></li>
- <li><a href="http://rave.apache.org/" title="Web and social mashup engine">Rave</a></li>
- <li><a href="http://river.apache.org/" title="Jini service oriented architecture">River</a></li>
- <li><a href="http://roller.apache.org/" title="Java blog server">Roller</a></li>
- <li><a href="http://santuario.apache.org/" title="XML Security in Java and C++">Santuario</a></li>
- <li><a href="http://servicemix.apache.org/" title="Enterprise Service Bus">ServiceMix</a></li>
- <li><a href="http://shindig.apache.org/" title="Opensocial Reference Implementation">Shindig</a></li>

- <li><a href="http://shiro.apache.org/" title="Powerful and easy-to-use application security framework">Shiro</a></li>
- <li><a href="http://sis.apache.org/" title="Spatial Information System">SIS</a></li>
- <li><a href="http://sling.apache.org/" title="Web Framework for JCR Content Repositories">Sling</a></li>
- <li><a href="http://spamassassin.apache.org/" title="Mail filter to identify spam">SpamAssassin</a></li>
- <li><a href="http://sqoop.apache.org/" title="Bulk Data Transfer for Hadoop and Structured Datastores">Sqoop</a></li>
- <li><a href="http://stanbol.apache.org/" title="Reusable components for semantic content management">Stanbol</a></li>
- <li><a href="http://stdcxx.apache.org/" title="Apache C++ Standard Library">STDCXX</a></li>
- <li><a href="http://struts.apache.org/" title="Model 2 framework for building Java web applications">Struts</a></li>
- <li><a href="http://subversion.apache.org/" title="Version Control">Subversion</a></li>
- <li><a href="http://synapse.apache.org/" title="Enterprise Service Bus and Mediation Framework">Synapse</a></li>
- <li><a href="http://syncope.apache.org/" title="Managing digital identities in enterprise environments">Syncope</a></li>
- <li><a href="http://tapestry.apache.org/" title="Component-based Java Web Application Framework">Tapestry</a></li>
- <li><a href="http://tcl.apache.org/" title="Dynamic websites using TCL">Tcl</a></li>
- <li><a href="http://thrift.apache.org/" title="Framework for scalable cross-language services development">Thrift</a></li>
- <li><a href="http://tika.apache.org" title="Content Analysis and Detection Toolkit">Tika</a></li>
- <li><a href="http://tiles.apache.org/" title="A templating framework for web application user interfaces">Tiles</a></li>
- <li><a href="http://tomcat.apache.org/" title="A Java Servlet and JSP Container">Tomcat</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>
- <li><a href="http://turbine.apache.org/" title="A Java Servlet Web Application Framework and associated component library">Turbine</a></li>
- <li><a href="http://tuscany.apache.org/" title="An SCA based Service Composition Framework">Tuscany</a></li>
- <li><a href="http://uima.apache.org/" title="Framework and annotators for unstructured information analysis">UIMA</a></li>
- <li><a href="http://vcl.apache.org/" title="Virtual Computing Lab">VCL</a></li>
- <li><a href="http://velocity.apache.org/" title="A Java Templating Engine">Velocity</a></li>
- <li><a href="http://ws.apache.org/">Web Services</a></li>
- <li><a href="http://whirr.apache.org/" title="Libraries for running Cloud Services">Whirr</a></li>
- <li><a href="http://wicket.apache.org/" title="Component-based Java Web Application Framework.">Wicket</a></li>
- <li><a href="http://wink.apache.org/" title="RESTful Web services Framework">Wink</a></li>
- <li><a href="http://wookie.apache.org/" title="Widgets for Applications">Wookie</a></li>
- <li><a href="http://xalan.apache.org/" title="XSLT processors in Java and C++">Xalan</a></li>
- <li><a href="http://xerces.apache.org/" title="XML parsers in Java, C++ and Perl">Xerces</a></li>
- <li><a href="http://xmlbeans.apache.org/" title="XML-Java binding tool">XMLBeans</a></li>
- <li><a href="http://xmlgraphics.apache.org/" title="Conversion from XML to graphical output">XML Graphics</a></li>
- <li><a href="http://zookeeper.apache.org/" title="Centralized service for maintaining configuration">ZooKeeper</a></li>



```
information">ZooKeeper</a></li>
</ul>
</div>
<div class="grid_3">
  <h4>Foundation</h4>
  <ul>
    <li><a href="/foundation/faq.html">FAQ</a></li>
    <li><a href="/licenses/" title="Overview of the Apache Licenses">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="/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/maillinglists.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="http://labs.apache.org/" title="The Innovation Laboratories of the Apache Software
Foundation">Labs</a></li>
    <li><a href="/legal/" title="Legal Affairs">Legal Affairs</a></li>
    <li><a href="/press/" title="Public Relations">Public Relations</a></li>
    <li><a href="/security/" title="Security">Security</a></li>
    <li><a href="/travel/" title="Travel Assistance">Travel Assistance</a></li>
  </ul>
</div>

<div class="grid_3">
  <h4>Community</h4>
  <ul>
    <li><a href="http://people.apache.org/" title="Apache committer homepages">People</a></li>
    <li><a href="/memorials/" title="In memoriam of past committers">Memorials</a></li>
    <li><a href="http://feathercast.org/" title="Apache Podcasts">Feathercast</a></li>
    <li><a href="http://blogs.apache.org/" title="Apache Project Blogs">Project Blogs</a></li>
```

<li><a href="http://planet.apache.org/committers/" title="Apache Committers' Blogs">PlanetApache</a></li>

</ul>

</div>

<div class="grid\_3">

<h4>How It Works</h4>

<ul>

<li><a href="/foundation/how-it-works.html">Introduction</a></li>

<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>

<li><a href="/foundation/how-it-works.html#structure">Structure</a></li>

<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>

<li><a href="/foundation/how-it-works.html#management">Collaboration</a></li>

<li><a href="/foundation/how-it-works.html#incubator">Incubator</a></li>

<li><a href="/foundation/how-it-works.html#other">Other entities</a></li>

<li><a href="/foundation/glossary.html">Glossary</a></li>

<li><a href="/foundation/voting.html">Voting</a></li>

</ul>

</div>

</div>

<div class="clear"></div>

</div>

<div id="copyright" class="container\_16">

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</div>

</body>

</html>

The following is a list of people who have contributed ideas, code, bug reports, or in general have helped logstash along its way.

Contributors:

- \* Andres Koetsier (AKoetsier)
- \* Bernd Ahlers (bernd)
- \* Dick Davies (rasputnik)
- \* Jordan Sissel (jordansissel)
- \* Paul Czarkowski (paulczar)
- \* Pier-Hugues Pellerin (ph)
- \* Richard Pijnenburg (electrical)
- \* Suyog Rao (suyograo)

Note: If you've sent us patches, bug reports, or otherwise contributed to Logstash, and you aren't on the list above and want to be, please let us know and we'll make sure you're here. Contributions from folks like you are what make open source awesome.

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Contributors:

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- \* Colin Surprenant (colinsurprenant)
- \* Jordan Sissel (jordansissel)
- \* Joo Duarte (jsvd)
- \* Pier-Hugues Pellerin (ph)
- \* Richard Pijnenburg (electrical)
- \* Tom Howe (turtlebender)

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- \* Philippe Weber (wiibaa)
- \* Pier-Hugues Pellerin (ph)
- \* Richard Pijnenburg (electrical)
- \* Suyog Rao (suyograo)
- \* Tray (torrancew)

Note: If you've sent us patches, bug reports, or otherwise contributed to Logstash, and you aren't on the list above and want to be, please let us know and we'll make sure you're here. Contributions from folks like you are what make open source awesome.

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.0//EN"
"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">

<head profile="http://www.w3.org/1999/xhtml/vocab">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" /><script
type="text/javascript">window.NREUM||(NREUM={}),__nr_require=function(n,e,t){function r(t){if(!e[t]){var
o=e[t]={exports:{}};n[t][0].call(o.exports,function(e){var o=n[t][1][e];return r(o?o:e)},o,o.exports)}return
e[t].exports}if("function"===typeof __nr_require)return __nr_require;for(var o=0;o<t.length;o++)r(t[o]);return
r}({QJf3ax:[function(n,e){function t(n){function e(e,t,a){n&&n(e,t,a),a||(a={});for(var
u=c(e),f=u.length,s=i(a,o,r),p=0;f>p;p++)u[p].apply(s,t);return s}function a(n,e){f[n]=c(n).concat(e)}function
c(n){return f[n]||[]}function u(o){return t(e)}var f={};return{on:a,emit:e,create:u,listeners:c,_events:f}}function
r(){return{}}var
o="nr@context",i=n("gos");e.exports=t()},{gos:"7eSDFh"}],ee:[function(n,e){e.exports=n("QJf3ax")},{},3]:[functi
on(n,e){function t(n){return function(){r(n,[(new Date).getTime()].concat(i(arguments)))}}var
r=n("handle"),o=n(1),i=n(2);"undefined"===typeof window.newrelic&&(newrelic=window.NREUM);var
a=["setPageViewName","addPageAction","setCustomAttribute","finished","addToTrace","inlineHit","noticeError"]
;o(a,function(n,e){window.NREUM[e]=t("api-
"+e)}),e.exports=window.NREUM},{1:12,2:13,handle:"D5DuLP"}],gos:[function(n,e){e.exports=n("7eSDFh")},{},
],7eSDFh:[function(n,e){function t(n,e,t){if(r.call(n,e))return n[e];var
o=t();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
r=Object.prototype.hasOwnProperty;e.exports=t},{},D5DuLP:[function(n,e){function t(n,e,t){return
r.listeners(n).length?r.emit(n,e,t):(o[n]||(o[n]=[]),void o[n].push(e))}var
r=n("ee").create(),o={};e.exports=t,t.ee=r,r.q=o},{ee:"QJf3ax"}],handle:[function(n,e){e.exports=n("D5DuLP")},{},
],XL7HBI:[function(n,e){function t(n){var e=typeof n;return!n||"object"!==e&&"function"!==e?-
1:n===window?0:i(n,o,function(){return r++})}var
r=1,o="nr@id",i=n("gos");e.exports=t},{gos:"7eSDFh"}],id:[function(n,e){e.exports=n("XL7HBI")},{},loader:[fu
nction(n,e){e.exports=n("G9z0BI")},{},G9z0BI:[function(n,e){function t(){var
n=h.info=NREUM.info;if(n&&n.licenseKey&&n.applicationID&&f&&f.body){c(l,function(e,t){e in
n||(n[e]=t)},h.proto="https"===d.split(":")[0]||n.sslForHttp?"https://":"http://",a("mark",["onload",i()]);var
e=f.createElement("script");e.src=h.proto+n.agent,f.body.appendChild(e)}function
r(){"complete"===f.readyState&&o()}function o(){a("mark",["domContentLoaded",i()])}function i(){return(new
Date).getTime()}var
a=n("handle"),c=n(1),u=(n(2),window),f=u.document,s="addEventListener",p="attachEvent",d=("" +location).split(
"")[0],l=[{beacon:"bam.nr-data.net",errorBeacon:"bam.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[p]("onload",t)),a("mark",["firstbyte",i(0)]),{1:12,2:3,handle:"D5DuLP"}},12:[function
(n,e){function t(n,e){var t=[],o="",i=0;for(o in n)r.call(n,o)&&(t[i]=e(o,n[o]),i+=1);return t}var
r=Object.prototype.hasOwnProperty;e.exports=t},{},13:[function(n,e){function
t(n,e,t){e||(e=0),"undefined"===typeof t&&(t=n?n.length:0);for(var r=-1,o=t-
e||0,i=Array(0>o?0:o);++r<o);i[r]=n[e+r];return i}e.exports=t},{}],{"G9z0Bl"}];</script>
<link rel="shortcut icon" href="http://opensource.org/files/garland_favicon.png" type="image/png" />
<link rel="shortlink" href="/node/66" />
<link rel="canonical" href="/licenses/MIT" />
<meta name="Generator" content="Drupal 7 (http://drupal.org)" />
<title>The MIT License (MIT) | Open Source Initiative</title>
<link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_xE-rWrJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
<link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_iABekW8OXxt1yff1_vg0sDV7lt8KP5iiCy47vQtDcDM.css" media="all"
/>
<link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2wI77kyP-
rJKVpFW5M3KFcj7Cb99lZalmubKIwWwsmU.css" media="all" />
<link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_k3snrbsthqot7V7ccRZHS9OkCZkwBv4adtNieIVlbEU.css" media="print"
/>

<!--[if lt IE 7]>
<link type="text/css" rel="stylesheet" href="http://opensource.org/themes/garland/fix-ie.css?nm6pyr" media="all"
/>
<![endif]-->
<script type="text/javascript"
src="http://opensource.org/files/js/js_xAPI0qIk9eowy_is9tNkCWXLUVoat94SQT48UBCFkyQ.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{"basePath":"","pathPrefix":"","ajaxPageState":{"theme":"garland","theme_token":"TKd5spQJ1FZy1HcRPHddEz
QI2t1pN5d2ECTqeeBIriw"},"js":{"misc/jquery.js":1,"misc/jquery.once.js":1,"misc/drupal.js":1},"css":{"modules\s
ystem\system.base.css":1,"modules\system\system.menus.css":1,"modules\system\system.messages.css":1,"mod
ules\system\system.theme.css":1,"modules\aggregator\aggregator.css":1,"modules\comment\comment.css":1,"m
odules\field\theme\field.css":1,"sites\all\modules\mollom\mollom.css":1,"modules\node\node.css":1,"modules
\search\search.css":1,"modules\user\user.css":1,"themes\garland\style.css":1,"themes\garland\print.css":1,"the
mes\garland\fix-ie.css":1}}});
//--><![ ]>
</script>
</head>
<body class="html not-front not-logged-in one-sidebar sidebar-first page-node page-node- page-node-66 node-type-
page fluid-width" >
<div id="skip-link">
<a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
</div>

<div id="wrapper">
<div id="container" class="clearfix">

```

```

<div id="header">
  <div id="logo-floater">
    <div id="branding"><strong><a href="/">
      
      <span>Open Source Initiative</span>      </a></strong></div>
    </div>

  </div> <!-- /#header -->

  <div id="sidebar-first" class="sidebar">
    <div class="region region-sidebar-first">
<div id="block-search-form" class="block block-search clearfix">

<h2 class="title">Search this site:</h2>

<div class="content">
  <form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
  <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><input type="hidden" name="form_build_id" value="form-
rEfcjT7gTkMTZcUGzW6YAp3kLEQXg4IT9guWcgGk01I" />
  <input type="hidden" name="form_id" value="search_block_form" />
  </div>
</div></form> </div>
</div>
<div id="block-system-navigation" class="block block-system block-menu clearfix">

  <h2 class="title">Navigation</h2>

  <div class="content">
    <ul class="menu"><li class="first collapsed"><a href="/about" title="About the Open Source Initiative">About
the OSI</a></li>
    <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">Open Source Licenses</a></li>
    <li class="leaf"><a href="/working_groups">Working Groups</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="/trademark" title="Information about trademark and logo usage">Trademark and
Logo Usage</a></li>
    <li class="collapsed"><a href="/osr-intro" title="Open Standards Requirement for Software">Open

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Standards</a></li>
<li class="leaf"><a href="/osi-open-source-education" title="OSI&#039;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&#039;s work gets
done">Mailing lists</a></li>
<li class="collapsed"><a href="/help" title="Resources for questions and further exploration">Getting
Help</a></li>
<li class="collapsed"><a href="http://opensource.org/donate" title="">Donate to the OSI</a></li>
<li class="leaf"><a href="/members">OSI Individual Membership</a></li>
<li class="leaf"><a href="/store">OSI Store</a></li>
<li class="collapsed"><a href="/affiliates" title="Home page for OSI&#039;s membership scheme for non-profits
and not-for-profits">OSI Affiliate Membership</a></li>
<li class="leaf"><a href="/contact" title="">Contact OSI</a></li>
<li class="leaf"><a href="/ToS" title="Rules for posting content on this site">Terms of Service</a></li>
<li class="last leaf"><a href="/support">OSI Corporate Support</a></li>
</ul> </div>
</div>
</div>
</div>

```

```

<div id="center"><div id="squeeze"><div class="right-corner"><div class="left-corner">
<h2 class="element-invisible">You are here</h2><div class="breadcrumb"><a href="/">Home</a></div>
<a id="main-content"></a>
<div id="tabs-wrapper" class="clearfix"> <h1 class="with-tabs">The MIT License
(MIT)</h1>
</div> <div class="clearfix">
<div class="region region-content">
<div id="block-system-main" class="block block-system clearfix">

<div class="content">
<div id="node-66" class="node node-page">

```

```

<div class="content clearfix">

<div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p>The MIT License (MIT)</p>
<p>Copyright (c) <year> <copyright holders></p>
<p>Permission is hereby granted, free of charge, to any person obtaining a copy<br />
of this software and associated documentation files (the "Software"), to deal<br />
in the Software without restriction, including without limitation the rights<br />
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell<br />
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```



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```
<div class="clearfix">  
  <div class="links"></div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<div class="region region-footer">
```

```
<div id="block-block-11" class="block block-block clearfix">
```

```
<div class="content">
```

```
<p style="text-align:center">Help shape the future of the Open Source Initiative...<br /><a href="http://osi.xwiki.com">visit and participate in the OSI wiki</a>.</p>
```

```
<div>
```

```
<p><a href="https://plus.google.com/+opensourceinitiative" rel="publisher">Google+</a></p>
```

```
<a href="https://twitter.com/OpenSourceOrg" class="twitter-follow-button" data-show-count="false" data-lang="en">Follow @OpenSourceOrg</a>
```

```
<script>
```

```
<!--><![CDATA[// ><!--
```

```
!function(d,s,id){var
```

```
js,fjs=d.getElementsByTagName(s)[0];if(!d.getElementById(id)){js=d.createElement(s);js.id=id;js.src="//platform.twitter.com/widgets.js";fjs.parentNode.insertBefore(js,fjs);}(document,"script","twitter-wjs");
```

```
//><![>
```

```
</script></div>
```

```
<p>
```

```
<!-- Creative Commons License --><a rel="license" href="http://creativecommons.org/licenses/by/4.0/"></a><br />Opensource.org site content is licensed under a <a rel="license"
```

```
href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International
```

License</a>.<!-- /Creative Commons License -->

```
<!-- <rdf:RDF xmlns="http://web.resource.org/cc/" xmlns:dc="http://purl.org/dc/elements/1.1/"
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
  <Work rdf:about="">
    <license rdf:resource="http://creativecommons.org/licenses/by/3.0/" />
  </Work>
  <License rdf:about="http://creativecommons.org/licenses/by/3.0/"><permits
rdf:resource="http://web.resource.org/cc/Reproduction"/><permits
rdf:resource="http://web.resource.org/cc/Distribution"/><requires
rdf:resource="http://web.resource.org/cc/Notice"/><requires
rdf:resource="http://web.resource.org/cc/Attribution"/><permits
rdf:resource="http://web.resource.org/cc/DerivativeWorks"/></License></rdf:RDF>
-->
```

| <a href="..ToS">Terms of Service</a>

```
</p>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">
```

```
<div class="content">
  <script src="http://www.google-analytics.com/urchin.js" type="text/javascript">
<!--/--><![CDATA[// ><!--
```

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

```
_uacct = "UA-3916956-1";
urchinTracker();
```

```
//--><![>
</script> </div>
</div>
</div>
```

```
</div></div></div></div> <!-- /.left-corner, /.right-corner, /#squeeze, /#center -->
```

```
</div> <!-- /#container -->
</div> <!-- /#wrapper -->
<script type="text/javascript">window.NREUM||(NREUM={});NREUM.info={"beacon":"bam.nr-
data.net","licenseKey":"53c69192ac","applicationID":"224050","transactionName":"b1dRZkQCXEEHAEVRFYd
ZkBfTFtcAgZJFkNQqg==","queueTime":0,"applicationTime":29,"ttGuid":"","agentToken":"","atts":"QxBSEAwY
T08=","errorBeacon":"bam.nr-data.net","agent":"js-agent.newrelic.com/nr-593.min.js"}</script></body>
```

</html>

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.0//EN"
"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">

<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" />
  <link rel="canonical" href="/licenses/MIT" />
  <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
  <title>The MIT License (MIT) | Open Source Initiative</title>
  <link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_pbm0lsQQJ7A7WCCIMgxLho6mI_kBNgznuUWmTWcnfoE.css"
media="all" />
  <link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_Frms3lIKkCDMuuCHUzEHGgSAc59B2At_Y3KWbmFS9k4.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2wI77kyP-
rJKVpFW5M3KFcj7Cb99lZalmubKIwWwsmU.css" media="all" />
```

```

<link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_k3snrbsthqot7V77ccRZHS9OkCZkwBv4adtNieIVlbEU.css" media="print"
/>

<!--[if lt IE 7]>
<link type="text/css" rel="stylesheet" href="http://opensource.org/themes/garland/fix-ie.css?mp63bk" media="all"
/>
<![endif]-->
<script type="text/javascript"
src="http://opensource.org/files/js/js_xAPI0qIk9eowy_is9tNkCWXLUVoat94SQT48UBCFkyQ.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{"basePath":"","pathPrefix":"","ajaxPageState":{"theme":"garland","theme_token":"4fpo5qSBy3ypLVGvf9l0NS5
zicZpC5CdOisdhg6HN0A"},"js":{"misc/jquery.js":1,"misc/jquery.once.js":1,"misc/drupal.js":1},"css":{"modules/
system/system.base.css":1,"modules/system/system.menus.css":1,"modules/system/system.messages.css":1,"mo
dules/system/system.theme.css":1,"modules/aggregator/aggregator.css":1,"modules/comment/comment.css":1,"
modules/field/theme/field.css":1,"sites/all/modules/mollom/mollom.css":1,"modules/node/node.css":1,"modul
es/search/search.css":1,"modules/user/user.css":1,"themes/garland/style.css":1,"themes/garland/print.css":1,"th
emes/garland/fix-ie.css":1}}});
//--><![]]>
</script>
</head>
<body class="html not-front not-logged-in one-sidebar sidebar-first page-node page-node- page-node-66 node-type-
page fluid-width" >
<div id="skip-link">
<a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
</div>

<div id="wrapper">
<div id="container" class="clearfix">

<div id="header">
<div id="logo-floater">
<div id="branding"><strong><a href="">

<span>Open Source Initiative</span> </a></strong></div>
</div>

</div> <!-- /#header -->

<div id="sidebar-first" class="sidebar">
<div class="region region-sidebar-first">
<div id="block-search-form" class="block block-search clearfix">

<h2 class="title">Search this site:</h2>

```

```

<div class="content">
  <form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
  <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><input type="hidden" name="form_build_id" value="form-
4EDtVxw46gGSEo_8WSrM0P9LQR3dUkooc9ICfQWgbwM" />
  <input type="hidden" name="form_id" value="search_block_form" />
  </div>
</div></form> </div>
</div>
<div id="block-system-navigation" class="block block-system block-menu clearfix">

  <h2 class="title">Navigation</h2>

  <div class="content">
    <ul class="menu"><li class="first collapsed"><a href="/about" title="About the Open Source Initiative">About
the OSI</a></li>
    <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">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's work gets
done">Mailing lists</a></li>
    <li class="collapsed"><a href="/help" title="Resources for questions and further exploration">Getting
Help</a></li>
    <li class="collapsed"><a href="http://opensource.org/donate" title="">Donate to the OSI</a></li>
    <li class="leaf"><a href="/members">OSI Individual Membership</a></li>
    <li class="collapsed"><a href="/affiliates" title="Home page for OSI's membership scheme for non-profits
and not-for-profits">OSI Affiliate Membership</a></li>
    <li class="leaf"><a href="/contact" title="">Contact OSI</a></li>
    <li class="last leaf"><a href="/ToS" title="Rules for posting content on this site">Terms of Service</a></li>
  </ul> </div>
</div>
</div>
</div>

```

```
<div id="center"><div id="squeeze"><div class="right-corner"><div class="left-corner">
  <h2 class="element-invisible">You are here</h2><div class="breadcrumb"><a href="/">Home</a></div>
  <a id="main-content"></a>
  <div id="tabs-wrapper" class="clearfix">
    <h1 class="with-tabs">The MIT License
(MIT)</h1>
    </div>
    <div class="clearfix">
      <div class="region region-content">
        <div id="block-system-main" class="block block-system clearfix">
```

```
<div class="content">
  <div id="node-66" class="node node-page">
```

```
<div class="content clearfix">
  
  <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-items"><div class="field-item even"><p>The MIT License (MIT)</p>
<p>Copyright (c) <year> <copyright holders></p>
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of this software and associated documentation files (the "Software"), to deal<br />
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FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE<br />
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER<br />
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,<br />
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN<br />
THE SOFTWARE.</p>
</div></div></div> </div>
```

```
<div class="clearfix">
  <div class="links"></div>
```

```
</div>
</div>
</div>
```

```

</div>
  </div>
    <div class="region region-footer">
      <div id="block-block-11" class="block block-block clearfix">

<div class="content">
  <!-- Creative Commons License --><a rel="license" href="http://creativecommons.org/licenses/by/3.0/"></a><br />Opensource.org site content is licensed under a <a rel="license"
href="http://creativecommons.org/licenses/by/3.0/">Creative Commons Attribution 3.0 License</a>.<!-- /Creative
Commons License -->

<!-- <rdf:RDF xmlns="http://web.resource.org/cc/" xmlns:dc="http://purl.org/dc/elements/1.1/"
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
  <Work rdf:about="">
    <license rdf:resource="http://creativecommons.org/licenses/by/3.0/" />
  </Work>
  <License rdf:about="http://creativecommons.org/licenses/by/3.0/"><permits
rdf:resource="http://web.resource.org/cc/Reproduction"/><permits
rdf:resource="http://web.resource.org/cc/Distribution"/><requires
rdf:resource="http://web.resource.org/cc/Notice"/><requires
rdf:resource="http://web.resource.org/cc/Attribution"/><permits
rdf:resource="http://web.resource.org/cc/DerivativeWorks"/></License></rdf:RDF>
-->

| <a href="..ToS">Terms of Service</a>
  </div>
</div>
<div id="block-block-7" class="block block-block clearfix">

<div class="content">
  <script src="http://www.google-analytics.com/urchin.js" type="text/javascript">
<!--/--><![CDATA[// ><!--

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

_uacct = "UA-3916956-1";
urchinTracker();

//--><![>
</script> </div>
</div>
</div>

```



</div></div></div></div> <!-- /.left-corner, /.right-corner, /#squeeze, /#center -->

</div> <!-- /#container -->  
</div> <!-- /#wrapper -->  
</body>  
</html>

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- \* Helmut Duregger (hduregger)
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- \* Kurt Hurtado (kurtado)
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- \* Marcus Vinicius Ferreira (mv)
- \* Nick Ethier (nickethier)
- \* Nikolay Bryskin (nikicat)
- \* Pete Fritchman (fetep)
- \* Pier-Hugues Pellerin (ph)
- \* Richard Pijnenburg (electrical)
- \* Suyog Rao (suyograo)

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- \* Dan Peterson (dpiddy)
- \* John E. Vincent (luis)
- \* Jordan Sissel (jordansissel)
- \* Kurt Hurtado (kurtado)
- \* Ludovicus Maior (Ludovicus)
- \* Matthew Richardson (mrichar1)
- \* Nick Ethier (nickethier)
- \* Pete Fritchman (fetep)
- \* Philippe Weber (wiibaa)
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- \* ronnocol

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```
# -*- mode:ruby -*-
```

```
# -*- coding: utf-8 -*-
```

```
Gem::Specification.new do |s|
```

```
  s.name = 'maven-tools'
```

```
  s.version = '123'
```

```
  s.summary = 'helpers for maven related tasks'
```

```
  s.description = 'adds versions conversion from rubygems to maven and vice versa, ruby DSL for POM (Project Object Model from maven), pom generators, etc'
```

```
  s.homepage = 'http://github.com/torquebox/maven-tools'
```

```
  s.authors = ['Christian Meier']
```

```
  s.email = ['m.kristian@web.de']
```

```
s.license = 'unknown'  
end
```

```
# vim: syntax=Ruby  
Copyright (c) 2007 Nathan Sobo.
```

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

```
<html>
```

```
<head>
```

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

```
<title>CDDL ver. 1.0</title>
```

```
<meta name="author" content="Cliff Allen">
```

```
</head>
```

```
<body>
```

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The snowball stemmers in  
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The snowball stopword lists in  
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The full snowball package is available from  
<http://snowball.tartarus.org/>

The KStem stemmer in  
`analysis/common/src/org/apache/lucene/analysis/en`  
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)  
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The Arabic, Persian, Romanian, Bulgarian, and Hindi analyzers (common) come with a default  
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`analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt`

See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers  
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`analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java`  
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`analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java`

The Stempel analyzer (stempel) includes BSD-licensed software developed  
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WordBreakTestUnicode\_\*.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database. See <http://unicode.org/copyright.html> for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (<http://morfologik.blogspot.com/>).

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=====  
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration  
=====

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

<http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz>

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- \* Richard Pijnenburg (electrical)
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[...]

# 2.227 memcached-1.4.15-10.el7\_3.1.x86\_64

## 1.4.15 :10.el7\_3.1

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Also see the ChangeLog for even more people who have helped over the years by submitting fixes, patches and reporting bugs.

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## 2.234 mockito-all 1.10.19

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## 2.235 moment 2.9.0

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## 2.237 mongodb 3.2.19

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#### THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
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## 2.241 msgpack 0.5.4



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## 2.242 munch 2.2.0

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## 2.244 netifaces 0.10.6

### 2.244.1 Available under license :

netifaces 0.10.6

=====

```
.. image:: https://drone.io/bitbucket.org/al45tair/netifaces/status.png
:target: https://drone.io/bitbucket.org/al45tair/netifaces/latest
:alt: Build Status
```

#### 1. What is this?

-----

It's been annoying me for some time that there's no easy way to get the address(es) of the machine's network interfaces from Python. There is a good reason for this difficulty, which is that it is virtually impossible to do so in a portable manner. However, it seems to me that there should be a package you can `easy_install` that will take care of working out the details of doing so on the machine you're using, then you can get on with writing Python code without concerning yourself with the nitty gritty of system-dependent low-level networking APIs.

This package attempts to solve that problem.

#### 2. How do I use it?

-----

First you need to install it, which you can do by typing::

```
tar xvzf netifaces-0.10.6.tar.gz
cd netifaces-0.10.6
python setup.py install
```

**\*\*Note that you will need the relevant developer tools for your platform\*\*, as netifaces is written in C and installing this way will compile the extension.**

Once that's done, you'll need to start Python and do something like the



following::

```
>>> import netifaces
```

Then if you enter

```
>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']
```

you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

```
>>> netifaces.ifaddresses('lo0')
{18: [{'addr': ''}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}]}
```

Hmmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first::

```
{ 18: [...], 2: [...], 30: [...] }
```

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is ``AF\_LINK`` (which means the link layer interface, e.g. Ethernet), 2 is ``AF\_INET`` (normal Internet addresses), and 30 is ``AF\_INET6`` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing netifaces, so the module declares a range of values that you might need. e.g.

```
>>> netifaces.AF_LINK
18
```

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the ``AF\_INET`` addresses now:

```
>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: *\*you can have more than one address of the same type associated with each interface\**.

\*Asking for "the" address of a particular interface doesn't make sense.\*

Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a \*peer\* address rather than a broadcast address.

Let's look at a more interesting interface.

```
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask \*may not\* appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We can do

```
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a'}]
```

Note that this may not be available on platforms without `getifaddrs()`, unless they happen to implement ```SIOCGIFHWADDR```. Note also that you just get the address; it's unlikely that you'll see anything else with an ```AF_LINK``` address. Oh, and don't assume that all ```AF_LINK``` addresses are Ethernet; you might, for instance, be on a Mac, in which case:

```
>>> addrs = netifaces.ifaddresses('fw0')
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a:bc:de'}]
```

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

```
>>> netifaces.gateways()
{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

```
>>> 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.

## 2.245 netty 4.0.36

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## 2.251 openpyxl 2.4.0 :a1

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[[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
ZQAR_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/fedora/linux/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 `create_RESOURCE()`, `delete_RESOURCE()`, `update_RESOURCE()` 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](mailto:openstack-dev@openstack.org?subject=[python-openstacksdk]%20Question%20about%20the%20python-openstacksdk)> mailing list fields questions of all types on OpenStack. Using the `[python-openstacksdk]` filter to begin your email subject will ensure that the message gets to SDK developers.

## Coding Standards

-----

We are a bit stricter than usual in the coding standards department. It's a good idea to read through the `:doc: coding` section.

```
.. toctree::  
    :maxdepth: 2
```

coding

## Development Environment

-----

The first step towards contributing code and documentation is to setup your development environment. We use a pretty standard setup, but it is fully documented in our `:doc: setup` section.

```
.. toctree::  
    :maxdepth: 2
```

setup

## Testing

-----

The project contains three test packages, one for unit tests, one for functional tests and one for examples tests. The `openstack.tests.unit` package tests the SDK's features in isolation. The `openstack.tests.functional` and `openstack.tests.examples` packages test the SDK's features and examples against an OpenStack cloud.

```
.. toctree::
```

```
testing
```

## Project Layout

```
-----
```

The project contains a top-level `openstack` package, which houses several modules that form the foundation upon which each service's API is built on. Under the `openstack` package are packages for each of those services, such as `openstack.compute`.

```
.. toctree::
```

```
layout
```

## Adding Features

```
-----
```

Does this SDK not do what you need it to do? Is it missing a service? Are you a developer on another project who wants to add their service? You're in the right place. Below are examples of how to add new features to the OpenStack SDK.

```
.. toctree::
```

```
:maxdepth: 2
```

```
create/resource
```

```
.. TODO(briancurtin): document how to create a proxy
```

```
.. TODO(briancurtin): document how to create auth plugins
```

```
clouds:
```

```
test_cloud:
```

```
region_name: RegionOne
```

```
auth:
```

```
auth_url: http://xxx.xxx.xxx.xxx:5000/v2.0/
```

```
username: demo
```

```
password: secreta
```

```
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/%s(detailed)"`. Before a request is made, if `detailed = True`, they convert it to a string so the URL becomes `/volumes/detailed`. If it's `False`, they only send `/volumes/`.

`service`  
\*\*\*\*\*

*Line 11* is an instance of the service we're implementing. Each resource ties itself to the service through this setting, so that the proper URL can be constructed.

In `fake_service.py`, we specify the valid versions as well as what this service is called in the service catalog. When a request is made for this resource, the Session now knows how to construct the appropriate URL using this `FakeService` instance.

### Supported Operations

-----

The base `openstack.resource.Resource` disallows all types of requests by default, requiring each resource to specify which requests they support. On *lines 14-19*, our `Fake` resource specifies that it'll work with all of the operations.

In order to have the following methods work, you must allow the corresponding value by setting it to `True`:

```

+-----+
| :class:`~openstack.resource.Resource.create` | allow_create |
+-----+
| :class:`~openstack.resource.Resource.delete` | allow_delete |
+-----+
| :class:`~openstack.resource.Resource.head` | allow_head |
+-----+
| :class:`~openstack.resource.Resource.list` | allow_list |
+-----+
| :class:`~openstack.resource.Resource.get` | allow_get |
+-----+
| :class:`~openstack.resource.Resource.update` | allow_update |

```

+-----+-----+

An additional attribute to set is `put_update` if your service uses `PUT` requests in order to update a resource. By default, `PATCH` requests are used for `Resource.update`.

## Properties

-----

.. TODO(shade) Especially this section

The way resource classes communicate values between the user and the server are `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 `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 `openstack.resource.Resource`` don't need to be documented, but any `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 of version 2 and one of version 3 so that your tests are run against both. Our continuous integration system runs against several versions, so ultimately we will have the proper test coverage, but having multiple versions locally results in less time spent in code review when changes unexpectedly break other versions.

Python can be downloaded from <https://www.python.org/downloads>.

### virtualenv

\*\*\*\*\*

In order to isolate our development environment from the system-based Python installation, we use `virtualenv <https://virtualenv.pypa.io/en/latest/>`_``. This allows us to install all of our necessary dependencies without interfering with anything else, and preventing others from interfering with us. Virtualenv must be installed on your system in order to use it, and it can be had from PyPI, via pip, as follows. Note that you may need to run this as an administrator in some situations.:

```
$ apt-get install python-virtualenv # Debian based platforms
$ yum install python-virtualenv    # Red Hat based platforms
$ pip install virtualenv           # Mac OS X and other platforms
```

You can create a virtualenv in any location. A common usage is to store all of your virtualenvs in the same place, such as under your home directory. To create a virtualenv for the default Python, likely a version 2, run the following::

```
$ virtualenv $HOME/envs/sdk
```

To create an environment for a different version, such as Python 3, run the following::

```
$ virtualenv -p python3.4 $HOME/envs/sdk3
```

When you want to enable your environment so that you can develop inside of it, you *activate* it. To activate an environment, run the `/bin/activate` script inside of it, like the following::

```
$ source $HOME/envs/sdk3/bin/activate
```

```
(sdk3)$
```

Once you are activated, you will see the environment name in front of your command prompt. In order to exit that environment, run the ``deactivate`` command.

```
tox  
***
```

We use `tox` <<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  
`Developer's Guide <http://docs.openstack.org/infra/manual/developers.html>`  
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](http://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 `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 `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` [http://en.wikipedia.org/wiki/Create,\\_read,\\_update\\_and\\_delete](http://en.wikipedia.org/wiki/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 `openstack.resource.prop`.

The `prop` is created with the exact name of what the API expects,

and can optionally include a `type` to be validated against on requests. You should choose an attribute name that follows PEP-8, regardless of what the server-side expects, as this `prop` becomes a mapping between the two::

```
is_public = resource.prop('os-flavor-access:is_public', type=bool)
```

There are six additional attributes which the `Resource` class checks before making requests to the REST API. `allow_create`, `allow_retrieve`, `allow_update`, `allow_delete`, `allow_head`, and `allow_list` are set to `True` or `False`, and are checked before making the corresponding method call.

The `base_path` attribute should be set to the URL which corresponds to this resource. Many `base_path`s are simple, such as `"/servers"`. For `base_path`s which are composed of non-static information, Python's string replacement is used, e.g., `base_path = "/servers/%(server_id)s/ips"`.

`resource_key` and `resources_key` are attributes to set when a `Resource` returns more than one item in a response, or otherwise requires a key to obtain the response value. For example, the `Server` class sets `resource_key = "server"` as an individual `Server` is stored in a dictionary keyed with the singular noun, and `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::

```
def list_flavors(self, **params):
    return flavor.Flavor.list(self.session, **params)
```

This method is operating on the `openstack.compute.v2.flavor.Flavor.list` method. For the time being, it simply passes on the `Adapter` maintained by the `Proxy`, and returns what the underlying `Resource.list` method

does.

The implementations and method signatures of ``Proxy`` methods are currently under construction, as we figure out the best way to implement them in a way which will apply nicely across all of the services.

## Connection

-----

The `:class:`openstack.connection.Connection`` class builds atop a `:class:`os_client_config.config.CloudRegion`` object, and provides a higher level interface constructed of ``Proxy`` objects from each of the services.

The ``Connection`` class' primary purpose is to act as a high-level interface to this SDK, managing the lower level connecton bits and exposing the ``Resource`` objects through their corresponding ``Proxy``\_ object.

If you've built proper ``Resource`` objects and implemented methods on the corresponding ``Proxy`` object, the high-level interface to your service should now be exposed.

## Testing

=====

The tests are run with ``tox`` <<https://tox.readthedocs.org/en/latest/>>\_ and configured in ```tox.ini```. The test results are tracked by ``testr`` <<https://testrepository.readthedocs.org/en/latest/>>\_ and configured in ```.testr.conf```.

## Unit Tests

-----

### Run

\*\*\*

In order to run the entire unit test suite, simply run the ``tox`` command inside of your source checkout. This will attempt to run every test command listed inside of ```tox.ini```, which includes Python 2.7, 3.4, PyPy, and a PEP 8 check. You should run the full test suite on all versions before submitting changes for review in order to avoid unexpected failures in the continuous integration system.::

```
(sdk3)$ tox
```

```
...
```

```
py34: commands succeeded
```

```
py27: commands succeeded
```

```
pypy: commands succeeded
```

```
pep8: commands succeeded
```

```
congratulations :)
```

During development, it may be more convenient to run a subset of the tests to keep test time to a minimum. You can choose to run the tests only on one version. A step further is to run only the tests you are working on.:

```
(sdk3)$ tox -e py34          # Run run the tests on Python 3.4
(sdk3)$ tox -e py34 TestContainer # Run only the TestContainer tests on 3.4
```

## Functional Tests

-----

The functional tests assume that you have a public or private OpenStack cloud that you can run the tests against. The tests must be able to be run against public clouds but first and foremost they must be run against OpenStack. In practice, this means that the tests should initially be run against a stable branch of `DevStack` <<https://docs.openstack.org/devstack/latest/>>`\_.

## DevStack

\*\*\*\*\*

There are many ways to run and configure DevStack. The link above will show you how to run DevStack a number of ways. You'll need to choose a method you're familiar with and can run in your environment. Wherever DevStack is running, we need to make sure that python-openstacksdk contributors are using the same configuration.

This is the ``local.conf`` file we use to configure DevStack.

```
.. literalinclude:: local.conf
```

Replace ``DEVSTACK\_PASSWORD`` with a password of your choice.

Replace ``OPENSTACK\_VERSION`` with a `stable branch` <<http://git.openstack.org/cgit/openstack-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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.. toctree::  
    :maxdepth: 2
```

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## 2.264 pacemaker-cli 1.1.14

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## 2.265 paho-mqtt java client 1.1.0

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```

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```
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```

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```
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```

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

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## 2.273 perl-Net-RawIP 0.25 :11.e17

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## 2.277 php-pecl-mongo 1.6.14 :1.e17

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```
/*  
+-----+
```

```
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+-----+
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+-----+
| Author: Omar Kilani <omar@php.net> |
+-----+
*/
```

mcon/contrib/md5.c:

```
/*
 * This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.
 * MD5 Message-Digest Algorithm (RFC 1321).
 *
 * Homepage:
 * http://openwall.info/wiki/people/solar/software/public-domain-source-code/md5
 *
 * Author:
 * Alexander Peslyak, better known as Solar Designer <solar at openwall.com>
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 *
 * This differs from Colin Plumb's older public domain implementation in that
 * no exactly 32-bit integer data type is required (any 32-bit or wider
 * unsigned integer data type will do), there's no compile-time endianness
 * configuration, and the function prototypes match OpenSSL's. No code from
 * Colin Plumb's implementation has been reused; this comment merely compares
 * the properties of the two independent implementations.
```

```
*
* The primary goals of this implementation are portability and ease of use.
* It is meant to be fast, but not as fast as possible. Some known
* optimizations are not included to reduce source code size and avoid
* compile-time configuration.
*/
```

mcon/contrib/strndup.c:

```
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* SUCH DAMAGE.
*/
```

## 2.278 picocontainer 2.13.5

## 2.279 Poi-3.14 3.14

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## 2.280 poi-ooxml-3.14 3.14

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[1] <http://www.ecma-international.org/publications/standards/Ecma-376.htm>

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# 2.283 prometheus 2.2.1

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Support for streaming Protocol Buffer messages for the Go language (golang).

[https://github.com/matttproud/golang\\_protobuf\\_extensions](https://github.com/matttproud/golang_protobuf_extensions)

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go-zookeeper - Native ZooKeeper client for Go

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## 2.284 pycparser 2.14

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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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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes

2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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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:

ostestr documentation <<https://docs.openstack.org/os-testr/latest/>>`\_.

.. \_nose options documentation: <http://readthedocs.org/docs/nose/en/latest/usage.html#options>

#### Suppressing logging output when tests fail

-----

By default, when one or more unit test fails, all of the data sent to the logger during the failed tests will appear on standard output, which typically consists of many lines of texts. The logging output can make it difficult to identify which specific tests have failed, unless your terminal has a large scrollbar 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.

.. rubric:: Footnotes

=====

CINDERCLIENT Tests

=====

Functional Tests

=====

Cinderclient contains a suite of functional tests, in the `cinderclient/tests/functional` directory.

These are currently non-voting, meaning that Jenkins will not reject a patch 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

## 2.292 python-django 1.6.11.6 :1.e17

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django.dispatch was originally forked from PyDispatcher.

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=====  
Advice for new contributors  
=====

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

First steps  
-----

Start with these easy tasks to discover Django's development process.

\* \*\*Sign the Contributor License Agreement\*\*

The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the `CLA`. See the `Contributor License Agreement FAQ` for a more thorough explanation.

\* \*\*Triage tickets\*\*

If an `unreviewed ticket` reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at [:ref:`how-can-i-help-with-triaging`](#)

\* \*\*Look for tickets that are accepted and review patches to build familiarity with the codebase and the process\*\*

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. Run the tests and make sure they pass on your system. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

\* \*\*Keep old patches up to date\*\*

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on [:doc:`writing-code/submitting-patches`](#).

**\*\*Write some documentation\*\***

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on `:doc:`writing-documentation``, in particular the tips for `:ref:`improving-the-documentation``.

.. note::

The ``reports page`_` contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

.. `_reports page`: <https://code.djangoproject.com/wiki/Reports>

.. `_CLA`: <https://www.djangoproject.com/foundation/cla/>

.. `_Contributor License Agreement FAQ`: <https://www.djangoproject.com/foundation/cla/faq/>

.. `_unreviewed ticket`: <https://code.djangoproject.com/query?status=!closed&stage=Unreviewed>

## Guidelines

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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](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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## 2.293 python-django-tagging 0.3.1 :11.e17

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Django Tagging

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Cab  
---

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## 2.294 python-glanceclient 2.9.1

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## 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=val1,key2=val2``

\* List of Dict options : ``--bars list=true type=dict key1=val1,key2=val2 key3=val3,key4=val4``

\* ``action=clear``

For normal options with value, there are four patterns to specify an option as extra arguments.

\* ``--admin-state-up True`` (a space between option name and value)

\* ``--admin-state-up=True`` (= between option name and value)

\* ``--admin\_state\_up True`` (underscore is used as delimiter)

\* ``--admin\_state\_up=True`` (underscore is used as delimiter)

.. \_background:

## Background

-----

There are a lot of opinions on which form of options are better or not. This section tries to capture the reason of the current choice.

Use at least one required option

~~~~~

As a convention, **neutron** CLI requires one required argument.

If all options are optional in the API level and we have ``name`` field, we usually use ``name`` as a required parameter.

Requiring at least one argument has the following benefits:

\* If we run ``neutron \*-create`` without a required argument, we will have a brief help message without detail option help. It is convenient.

\* We can avoid miss operation by just hitting ``neutron \*-create``.

Requiring at least one parameter is a good balance.

Even though we can change this convention to allow to create a resource without ``name`` field, it will bring confusions to existing users.

There may be opinion that it is inconsistent with API level requirement

or Horizon behavior, but even if neutron CLI requires `name` field there is no bad impact on regular users. Considering possible confusion if we change it, it looks better to keep it as-is.

#### Options for Boolean value

~~~~~

\* `--enable-foo`/`--disable-foo` or similar patterns (including `--admin-state-down`) is not suggested because we need two exclusive options for one attribute in REST API. It is meaningless.

\* It is not recommended to have an option only to specify non-default value. For example, we have `--shared` or `--admin-state-down` options for `net-create`. This form only works for `*-create` and does not work for `*-update`. It leads to having different options for `*-create` and `*-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=True/False` in the `*extra argument*` mechanism. If we introduce `--enable-dhcp` (without value), the form of `--enable-dhcp True/False` cannot be used now. This is another reason we don't use a flag style option for a boolean parameter.

.. `_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:: console

```
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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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>>

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 <<https://review.openstack.org/#/c/393903/>>`\_ 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 <<https://docs.openstack.org/neutron/latest/contributor/stadium/>>`\_ projects, Neutron documentation and `DevStack <<https://docs.openstack.org/devstack/latest/>>`\_ 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)                                  |  |
| Exists              | Exists        | ``openstack``                 |  | (assumes command parity resulting in ``neutron`` being deprecated) |  |
| Doesn't Exist       | Doesn't Exist | ``openstack``                 |  |                                                                    |  |

**\*\*Where does my CLI belong?\***

If you are developing an API in any of the `neutron` repos <http://governance.openstack.org/reference/projects/neutron.html> the client-side support must be generally located in either the openstackclient or neutronclient repos. Whether the actual code goes into one or the other repo it depends on the nature of the feature, its maturity level, and/or the depth of feedback required during the development.

The table below provides an idea of what goes where. Generally speaking, we consider Core anything that is L2 and L3 related or that it has been located in the neutron repo for quite sometime, e.g. QoS or Metering, or that it is available in each neutron deployment irrespective of its configuration (e.g. auto-allocated-topology). Any client feature that falls into this categorization will need to be contributed in OSC. Any other that does not, will need to go into neutronclient, assuming that its server-side is located in a neutron controlled repo. This is a general guideline, when in doubt, please reach out to a member of the neutron core team for clarifications.

| 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?\***

| OpenStack Project for `openstack` Commands | Python Library to Change                   |
|--------------------------------------------|--------------------------------------------|
| python-openstackclient                     | python-openstacksdk                        |
| python-neutronclient                       | python-neutronclient                       |
| Other                                      | Applicable project owning network resource |

**\*\*Important:\*\*** The actual name of the command object and/or action in OSC may differ from those used by neutron in order to follow the OSC command structure and to avoid name conflicts. The `network` prefix must be used to avoid name conflicts if the command object name is highly likely to have an ambiguous meaning. Developers should get new command objects and actions approved by the OSC team before proceeding with the implementation.

The "Core" group includes network resources that provide core `neutron` project features (e.g. network, subnet, port, etc.) and not advanced features in the `neutron` project (e.g. trunk, etc.) or advanced services in separate projects (FWaaS, LBaaS, VPNaaS, dynamic routing, etc.).

The "Other" group applies projects other than the core `neutron` project.

Contact the neutron PTL or core team with questions on network resource classification.

When adding or updating an `openstack` networking command to python-openstackclient, changes may first be required to the OpenStack Python SDK to support the underlying networking resource object, properties and/or actions. Once the OpenStack Python SDK changes are merged, the related OSC changes can be merged. The OSC changes may require an update to the OSC openstacksdk version in the `requirements.txt` <<https://github.com/openstack/python-openstackclient/blob/master/requirements.txt>>`\_` file.

When adding an `openstack` networking command to python-openstackclient, you can optionally propose an

``OSC` command spec <<https://github.com/openstack/python-openstackclient/blob/master/doc/source/contributor/specs/commands.rst>>`\_ which documents the new command interface before proceeding with the implementation.

Users of the neutron client's command extensions must adopt the ``OSC` plugin <<https://github.com/openstack/python-openstackclient/blob/master/doc/source/contributor/plugins.rst>>`\_ system for this transition. Such users will maintain their OSC plugin within their own project and should follow the guidance in the table above to determine which command to change.

#### Developer References

-----

- \* See ``OSC` neutron support etherpad <<https://etherpad.openstack.org/p/osc-neutron-support>>`\_ to determine if an ```openstack``` command is in progress.
- \* See ``OSC` command list <<https://github.com/openstack/python-openstackclient/tree/master/doc/source/cli/command-objects>>`\_ to determine if an ```openstack``` command exists.
- \* See ``OSC` command spec list <<https://github.com/openstack/python-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` human interface guide <<https://github.com/openstack/python-openstackclient/blob/master/doc/source/contributor/humaninterfaceguide.rst>>`\_ for guidance on creating new OSC command interfaces.
- \* 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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## Client command extension support

=====

The client command extension adds support for extending the neutron client while considering ease of creation.

Extensions strongly conform to preexisting neutron commands (/neutron/v2\_0/).

A sample extension can be seen at:

neutronclient/neutron/v2\_0/contrib/\_fox\_sockets.py

## Minimum requirements from an extension

-----

\* NeutronClientExtension subclasses must have a shell\_command class variable if the command is to be available to the CLI (shell.py)

Example: neutronclient.neutron.v2\_0.contrib.\_fox\_sockets.FoxInSocketsList

## Minimum requirements to use canonical neutron CRUD commands framework

-----

Neutron commands are cliff commands, commands in extension can use their own way to finish their tasks. But if they want to make use of the canonical neutron CRUD commands framework, the extension should:

\* have a class that subclasses NeutronClientExtension to provide the requisite resource name, version support, and resource collection and object paths for a resource the commands will process.

Example: neutronclient.neutron.v2\_0.contrib.\_fox\_sockets.FoxInSocket

\* have a class that subclasses from the ClientExtensionList to provide resource object list function. This is because most commands need the list function to get object ID via  
neutronclient.neutron.v2\_0.\_\_init\_\_.find\_resource\_by\_id.

Example: neutronclient.neutron.v2\_0.contrib.\_fox\_sockets.FoxInSocketsList

\* if needed, subclass ClientExtensionUpdate to implement update of the resource object.

Example: neutronclient.neutron.v2\_0.contrib.\_fox\_sockets.FoxInSocketsUpdate

\* if needed, subclass ClientExtensionDelete to implement deletion of the resource object.

Example: neutronclient.neutron.v2\_0.contrib.\_fox\_sockets.FoxInSocketsDelete

\* if needed, subclass ClientExtensionShow to get the detail of the resource object.

Example: neutronclient.neutron.v2\_0.contrib.\_fox\_sockets.FoxInSocketsShow

#### Precedence of command loading

-----

\* hard coded commands are loaded first

\* external commands (installed in the environment) are loaded then

Commands that have the same name will be overwritten by commands that are loaded later. To change the execution of a command for your particular extension you only need to override the execute method.

Currently this extension support is limited to top-level resources.

Parent/child relationships may be added if desired.

neutronclient.extension entry\_point

-----

To activate the commands in a specific extension module, add an entry in setup.cfg under neutronclient.extension. For example::

```
[entry_points]
```

```
neutronclient.extension =
```

```
fox_sockets = neutronclient.neutron.v2_0.contrib._fox_sockets
```

```
..
```

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Contributor Guide

=====

In the Contributor Guide, you will find information on neutronclient's lower level programming details or APIs as well as the transition to OpenStack client.

```
.. toctree::  
:maxdepth: 2
```

```
client_command_extensions  
cli_option_guideline  
transition_to_osc
```

## 2.301 python-novaclient 10.1.0

### 2.301.1 Available under license :

Copyright (c) 2009 Jacob Kaplan-Moss - initial codebase (< v2.1)

Copyright (c) 2011 Rackspace - OpenStack extensions (>= v2.1)

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=====

Code is hosted at `git.openstack.org` \_\_. Submit bugs to the Nova project on `Launchpad` \_\_. Submit code to the `openstack/python-novaclient` project using `Gerrit` \_\_.

\_\_ <https://git.openstack.org/cgit/openstack/python-novaclient>  
\_\_ <https://launchpad.net/nova>  
\_\_ <https://docs.openstack.org/infra/manual/developers.html#development-workflow>

```
.. toctree::  
    :maxdepth: 2
```

testing

=====  
Testing  
=====

The preferred way to run the unit tests is using `tox`. There are multiple test targets that can be run to validate the code.

```
tox -e pep8
```

Style guidelines enforcement.

```
tox -e py27
```

Traditional unit testing.

```
tox -e functional
```

Live functional testing against an existing OpenStack instance.

Functional testing assumes the existence of a `clouds.yaml` file as supported by `os-client-config` <<https://docs.openstack.org/os-client-config/latest>> \_\_. It assumes the existence of a cloud named `devstack` that behaves like a normal DevStack installation with a demo and an admin user/tenant - or clouds named `functional_admin` and `functional_nonadmin`.

Refer to `Consistent Testing Interface` \_\_ for more details.

\_\_ <https://git.openstack.org/cgit/openstack/governance/tree/reference/project-testing-interface.rst>

## 2.302 python-orderdict 1.1 :6.e17

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## 2.303 python-prettytable 0.7.2 :3.e17

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```

## 2.304 python-pyasn1 0.1.8

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## 2.305 python-pygments 1.4 :10.e17

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V# Whom: Hye-Shik Chang <perky@FreeBSD.org>\u000a  
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V\u005c\u000a  
p774  
tp775  
a(g6  
V  
p776  
tp777  
a(g6  
VHUGE\_STACK\_SIZE  
p778  
tp779  
a(g6  
V  
tp780  
a(g255  
V"Use a larger thread stack"  
p781  
tp782  
a(g6  
V  
tp783  
a(g6  
Voff  
p784  
tp785  
a(g6  
V  
tp786  
a(g262  
V\u005c\u000a  
p787  
tp788  
a(g6  
V  
p789  
tp790  
a(g6  
VUCS4

p791  
tp792  
a(g6  
V  
tp793  
a(g255  
V"Use UCS4 for unicode support"  
p794  
tp795  
a(g6  
V  
tp796  
a(g6  
Von  
p797  
tp798  
a(g6  
V  
tp799  
a(g262  
V\u005c\u000a  
p800  
tp801  
a(g6  
V  
p802  
tp803  
a(g6  
VPYMALLOC  
p804  
tp805  
a(g6  
V  
tp806  
a(g255  
V"Use python's internal malloc"  
p807  
tp808  
a(g6  
V  
tp809  
a(g6  
Von  
p810  
tp811  
a(g6  
V  
tp812

a(g262  
V\u005c\u000a  
p813  
tp814  
a(g6  
V  
p815  
tp816  
a(g6  
VIPV6  
p817  
tp818  
a(g6  
V  
tp819  
a(g255  
V"Enable IPv6 support"  
p820  
tp821  
a(g6  
V  
tp822  
a(g6  
Von  
p823  
tp824  
a(g6  
V  
tp825  
a(g262  
V\u005c\u000a  
p826  
tp827  
a(g6  
V  
p828  
tp829  
a(g6  
VFPECTL  
p830  
tp831  
a(g6  
V  
tp832  
a(g255  
V"Enable floating point exception handling"  
p833  
tp834

a(g6  
V  
tp835  
a(g6  
Voff  
p836  
tp837  
a(g6  
V\u000a\u000a  
p838  
tp839  
a(g27  
V.include <bsd.port.pre.mk>\u000a  
p840  
tp841  
a(g6  
V\u000a  
tp842  
a(g27  
V.if \${PYTHON\_VERSION} == \${PYTHON\_DEFAULT\_VERSION}\u000a  
p843  
tp844  
a(g6  
V  
tp845  
a(g100  
VMLINKS  
p846  
tp847  
a(g353  
V=  
tp848  
a(g6  
V  
p849  
tp850  
a(g138  
V\${  
p851  
tp852  
a(g100  
VPYTHON\_VERSION  
p853  
tp854  
a(g138  
V}  
tp855  
a(g6



V.1  
p856  
tp857  
a(g6  
V  
tp858  
a(g6  
Vpython.1  
p859  
tp860  
a(g6  
V\u000a  
tp861  
a(g6  
VPLIST\_SUB+  
p862  
tp863  
a(g353  
V=  
tp864  
a(g6  
V  
tp865  
a(g100  
VIF\_DEFAULT  
p866  
tp867  
a(g353  
V=  
tp868  
a(g255  
V""  
p869  
tp870  
a(g6  
V\u000a  
tp871  
a(g27  
V.else\u000a  
p872  
tp873  
a(g6  
V  
tp874  
a(g6  
VPLIST\_SUB+  
p875  
tp876

a(g353  
V=  
tp877  
a(g6  
V  
tp878  
a(g100  
VIF\_DEFAULT  
p879  
tp880  
a(g353  
V=  
tp881  
a(g255  
V"@comment "  
p882  
tp883  
a(g6  
V\u000a  
tp884  
a(g27  
V.endif\u000a  
p885  
tp886  
a(g6  
V\u000a  
tp887  
a(g24  
V# workaround for a bug in base curses.h.\u000a  
p888  
tp889  
a(g6  
V  
tp890  
a(g6  
VCFLAGS+  
p891  
tp892  
a(g353  
V=  
tp893  
a(g6  
V  
tp894  
a(g6  
V-D\_\_wchar\_t  
p895  
tp896

a(g353  
V=  
tp897  
a(g6  
Vwchar\_t  
p898  
tp899  
a(g6  
V\u000a\u000a  
p900  
tp901  
a(g27  
V.if !defined(WITHOUT\_THREADS)\u000a  
p902  
tp903  
a(g6  
V  
tp904  
a(g6  
VCONFIGURE\_ARGS+  
p905  
tp906  
a(g353  
V=  
tp907  
a(g6  
V  
tp908  
a(g6  
V--with-threads  
p909  
tp910  
a(g6  
V\u000a  
tp911  
a(g6  
VCFLAGS+  
p912  
tp913  
a(g353  
V=  
tp914  
a(g6  
V  
p915  
tp916  
a(g138  
V\${

p917  
tp918  
a(g100  
VPTHREAD\_CFLAGS  
p919  
tp920  
a(g138  
V}  
tp921  
a(g6  
V\u000a  
tp922  
a(g27  
V.if defined(WITHOUT\_HUGE\_STACK\_SIZE)\u000a  
p923  
tp924  
a(g6  
V  
tp925  
a(g6  
VCFLAGS+  
p926  
tp927  
a(g353  
V=  
tp928  
a(g6  
V  
p929  
tp930  
a(g6  
V-DTHREAD\_STACK\_SIZE  
p931  
tp932  
a(g353  
V=  
tp933  
a(g6  
V0x20000  
p934  
tp935  
a(g6  
V\u000a  
tp936  
a(g27  
V.else\u000a  
p937  
tp938

a(g6  
V  
tp939  
a(g6  
VCFLAGS+  
p940  
tp941  
a(g353  
V=  
tp942  
a(g6  
V  
p943  
tp944  
a(g6  
V-DTHREAD\_STACK\_SIZE  
p945  
tp946  
a(g353  
V=  
tp947  
a(g6  
V0x100000  
p948  
tp949  
a(g6  
V\u000a  
tp950  
a(g27  
V.endif # defined(WITHOUT\_HUGE\_STACK\_SIZE)\u000a  
p951  
tp952  
a(g6  
V  
tp953  
a(g6  
VCONFIGURE\_ENV+  
p954  
tp955  
a(g353  
V=  
tp956  
a(g6  
V  
p957  
tp958  
a(g100  
VLDFLAGS

p959  
tp960  
a(g353  
V=  
tp961  
a(g255  
V"\${PTHREAD\_LIBS} \${LD\_FLAGS}"  
p962  
tp963  
a(g6  
V\u000a  
tp964  
a(g27  
V.else\u000a  
p965  
tp966  
a(g6  
V  
tp967  
a(g6  
VCONFIGURE\_ARGS+  
p968  
tp969  
a(g353  
V=  
tp970  
a(g6  
V  
tp971  
a(g6  
V--without-threads  
p972  
tp973  
a(g6  
V\u000a  
tp974  
a(g27  
V.if defined(LD\_FLAGS)\u000a  
p975  
tp976  
a(g6  
V  
tp977  
a(g6  
VCONFIGURE\_ENV+  
p978  
tp979  
a(g353

V=  
tp980  
a(g6  
V  
p981  
tp982  
a(g100  
VLD\_FLAGS  
p983  
tp984  
a(g353  
V=  
tp985  
a(g255  
V"\${LD\_FLAGS}"  
p986  
tp987  
a(g6  
V\u000a  
tp988  
a(g27  
V.endif # defined(LD\_FLAGS)\u000a  
p989  
tp990  
a(g6  
V  
tp991  
a(g27  
V.endif # !defined(WITHOUT\_THREADS)\u000a  
p992  
tp993  
a(g6  
V\u000a  
tp994  
a(g27  
V.if !defined(WITHOUT\_UCS4) && !defined(WITH\_UCS2)\u000a  
p995  
tp996  
a(g6  
V  
tp997  
a(g6  
VCONFIGURE\_ARGS+  
p998  
tp999  
a(g353  
V=  
tp1000

a(g6  
V  
tp1001  
a(g6  
V--enable-unicode  
p1002  
tp1003  
a(g353  
V=  
tp1004  
a(g6  
VuCs4  
p1005  
tp1006  
a(g6  
V\u000a  
tp1007  
a(g27  
V.endif\u000a  
p1008  
tp1009  
a(g6  
V\u000a  
tp1010  
a(g27  
V.if defined(WITHOUT\_PYMALLOC)\u000a  
p1011  
tp1012  
a(g6  
V  
tp1013  
a(g6  
VCONFIGURE\_ARGS+  
p1014  
tp1015  
a(g353  
V=  
tp1016  
a(g6  
V  
p1017  
tp1018  
a(g6  
V--without-pymalloc  
p1019  
tp1020  
a(g6  
V\u000a



tp1021  
a(g27  
V.endif\u000a  
p1022  
tp1023  
a(g6  
V\u000a  
tp1024  
a(g27  
V.if \${ARCH} == i386\u000a  
p1025  
tp1026  
a(g6  
V  
tp1027  
a(g6  
VPLIST\_SUB+  
p1028  
tp1029  
a(g353  
V=  
tp1030  
a(g6  
V  
tp1031  
a(g100  
VX86\_ONLY  
p1032  
tp1033  
a(g353  
V=  
tp1034  
a(g255  
V""  
p1035  
tp1036  
a(g6  
V\u000a  
tp1037  
a(g27  
V.else\u000a  
p1038  
tp1039  
a(g6  
V  
tp1040  
a(g6  
VPLIST\_SUB+

p1041  
tp1042  
a(g353  
V=  
tp1043  
a(g6  
V  
tp1044  
a(g100  
VX86\_ONLY  
p1045  
tp1046  
a(g353  
V=  
tp1047  
a(g255  
V"@comment "  
p1048  
tp1049  
a(g6  
V\u000a  
tp1050  
a(g27  
V.endif\u000a  
p1051  
tp1052  
a(g6  
V  
tp1053  
a(g27  
V.if \${ARCH} == amd64 || \${ARCH} == ia64 || \${ARCH} == sparc64 || \${ARCH} == alpha\u000a  
p1054  
tp1055  
a(g6  
V  
tp1056  
a(g6  
VPLIST\_SUB+  
p1057  
tp1058  
a(g353  
V=  
tp1059  
a(g6  
V  
p1060  
tp1061  
a(g100

V32BIT\_ONLY  
p1062  
tp1063  
a(g353  
V=  
tp1064  
a(g255  
V"@comment "  
p1065  
tp1066  
a(g6  
V\u000a  
tp1067  
a(g27  
V.else\u000a  
p1068  
tp1069  
a(g6  
V  
tp1070  
a(g6  
VPLIST\_SUB+  
p1071  
tp1072  
a(g353  
V=  
tp1073  
a(g6  
V  
p1074  
tp1075  
a(g100  
V32BIT\_ONLY  
p1076  
tp1077  
a(g353  
V=  
tp1078  
a(g255  
V""  
p1079  
tp1080  
a(g6  
V\u000a  
tp1081  
a(g27  
V.endif\u000a  
p1082

tp1083  
a(g6  
V  
tp1084  
a(g27  
V.if \${ARCH} == sparc64\u000a  
p1085  
tp1086  
a(g6  
V  
tp1087  
a(g6  
VCFLAGS+  
p1088  
tp1089  
a(g353  
V=  
tp1090  
a(g6  
V  
p1091  
tp1092  
a(g6  
V-DPYTHON\_DEFAULT\_RECURSION\_LIMIT  
p1093  
tp1094  
a(g353  
V=  
tp1095  
a(g6  
V900  
p1096  
tp1097  
a(g6  
V\u000a  
tp1098  
a(g27  
V.endif\u000a  
p1099  
tp1100  
a(g6  
V\u000a  
tp1101  
a(g27  
V.if !exists(/usr/bin/ypcat) # the world with NO\_NIS\u000a  
p1102  
tp1103  
a(g6

V  
tp1104  
a(g6  
VPLIST\_SUB+  
p1105  
tp1106  
a(g353  
V=  
tp1107  
a(g6  
V  
tp1108  
a(g100  
VNO\_NIS  
p1109  
tp1110  
a(g353  
V=  
tp1111  
a(g255  
V"@comment "  
p1112  
tp1113  
a(g6  
V\u000a  
tp1114  
a(g27  
V.else\u000a  
p1115  
tp1116  
a(g6  
V  
tp1117  
a(g6  
VPLIST\_SUB+  
p1118  
tp1119  
a(g353  
V=  
tp1120  
a(g6  
V  
tp1121  
a(g100  
VNO\_NIS  
p1122  
tp1123  
a(g353

V=  
tp1124  
a(g255  
V""  
p1125  
tp1126  
a(g6  
V\u000a  
tp1127  
a(g27  
V.endif\u000a  
p1128  
tp1129  
a(g6  
V\u000a  
tp1130  
a(g27  
V.if !defined(WITHOUT\_IPV6)\u000a  
p1131  
tp1132  
a(g6  
V  
tp1133  
a(g6  
VCONFIGURE\_ARGS+  
p1134  
tp1135  
a(g353  
V=  
tp1136  
a(g6  
V  
tp1137  
a(g6  
V--enable-ipv6  
p1138  
tp1139  
a(g6  
V\u000a  
tp1140  
a(g27  
V.else\u000a  
p1141  
tp1142  
a(g6  
V  
tp1143  
a(g6

VCONFIGURE\_ARGS+  
p1144  
tp1145  
a(g353  
V=  
tp1146  
a(g6  
V  
tp1147  
a(g6  
V--disable-ipv6  
p1148  
tp1149  
a(g6  
V\u000a  
tp1150  
a(g27  
V.endif\u000a  
p1151  
tp1152  
a(g6  
V\u000a  
tp1153  
a(g27  
V.if defined(WITH\_FPECTL)\u000a  
p1154  
tp1155  
a(g6  
V  
tp1156  
a(g6  
VCONFIGURE\_ARGS+  
p1157  
tp1158  
a(g353  
V=  
tp1159  
a(g6  
V  
tp1160  
a(g6  
V--with-fpectl  
p1161  
tp1162  
a(g6  
V\u000a  
tp1163  
a(g27

V endif\u000a  
p1164  
tp1165  
a(g6  
V\u000a  
tp1166  
a(g27  
V.if \${OSVERSION} >= 700000\u000a  
p1167  
tp1168  
a(g6  
V  
tp1169  
a(g100  
VPLATFORMS  
p1170  
tp1171  
a(g353  
V=  
tp1172  
a(g6  
Vplat-freebsd4  
p1173  
tp1174  
a(g6  
V  
tp1175  
a(g6  
Vplat-freebsd5  
p1176  
tp1177  
a(g6  
V  
tp1178  
a(g6  
Vplat-freebsd6  
p1179  
tp1180  
a(g6  
V\u000a  
tp1181  
a(g27  
V.elif \${OSVERSION} >= 600000\u000a  
p1182  
tp1183  
a(g6  
V  
tp1184



a(g100  
VPLATFORMS  
p1185  
tp1186  
a(g353  
V=  
tp1187  
a(g6  
Vplat-freebsd4  
p1188  
tp1189  
a(g6  
V  
tp1190  
a(g6  
Vplat-freebsd5  
p1191  
tp1192  
a(g6  
V  
tp1193  
a(g6  
Vplat-freebsd7  
p1194  
tp1195  
a(g6  
V\u000a  
tp1196  
a(g27  
V.else\u000a  
p1197  
tp1198  
a(g6  
V  
tp1199  
a(g100  
VPLATFORMS  
p1200  
tp1201  
a(g353  
V=  
tp1202  
a(g6  
Vplat-freebsd4  
p1203  
tp1204  
a(g6  
V

tp1205  
a(g6  
Vplat-freebsd6  
p1206  
tp1207  
a(g6  
V  
tp1208  
a(g6  
Vplat-freebsd7  
p1209  
tp1210  
a(g6  
V\u000a  
tp1211  
a(g27  
V.endif\u000a  
p1212  
tp1213  
a(g6  
V\u000a  
tp1214  
a(g6  
Vpre-patch:  
p1215  
tp1216  
a(g6  
V\u000a  
p1217  
tp1218  
a(g138  
V\${  
p1219  
tp1220  
a(g100  
VMKDIR  
p1221  
tp1222  
a(g138  
V}  
tp1223  
a(g6  
V  
tp1224  
a(g138  
V\${  
p1225  
tp1226

a(g100  
VWRKSRC  
p1227  
tp1228  
a(g138  
V}  
tp1229  
a(g6  
V  
tp1230  
a(g138  
V\${  
p1231  
tp1232  
a(g100  
VSHARED\_WRKSRC  
p1233  
tp1234  
a(g138  
V}  
tp1235  
a(g6  
V/Modules  
p1236  
tp1237  
a(g6  
V\u000a  
p1238  
tp1239  
a(g138  
V\${  
p1240  
tp1241  
a(g100  
VSED  
p1242  
tp1243  
a(g138  
V}  
tp1244  
a(g6  
V  
tp1245  
a(g6  
V-e  
p1246  
tp1247  
a(g6

V  
tp1248  
a(g281  
V'1s,^.\*\$\$,#!\${PREFIX}/bin/\${PYTHON\_VERSION},'  
p1249  
tp1250  
a(g6  
V  
tp1251  
a(g262  
V\u005c\u000a  
p1252  
tp1253  
a(g6  
V  
p1254  
tp1255  
a(g138  
V\${  
p1256  
tp1257  
a(g100  
VPATCH\_WRKSRC  
p1258  
tp1259  
a(g138  
V}  
tp1260  
a(g6  
V/Tools/scripts/pydoc  
p1261  
tp1262  
a(g6  
V  
tp1263  
a(g6  
V>  
tp1264  
a(g6  
V  
tp1265  
a(g138  
V\${  
p1266  
tp1267  
a(g100  
VWRKDIR  
p1268

tp1269  
a(g138  
V}  
tp1270  
a(g6  
V/pydoc2.5  
p1271  
tp1272  
a(g6  
V\u000a  
p1273  
tp1274  
a(g138  
V\${  
p1275  
tp1276  
a(g100  
VSED  
p1277  
tp1278  
a(g138  
V}  
tp1279  
a(g6  
V  
tp1280  
a(g6  
V-e  
p1281  
tp1282  
a(g6  
V  
tp1283  
a(g281  
V'1s,^.\*\$\$,#!\${PREFIX}/bin/\${PYTHON\_VERSION},'  
p1284  
tp1285  
a(g6  
V  
tp1286  
a(g262  
V\u0005c\u000a  
p1287  
tp1288  
a(g6  
V  
p1289  
tp1290

a(g138  
V\${  
p1291  
tp1292  
a(g100  
VPATCH\_WRKSRC  
p1293  
tp1294  
a(g138  
V}  
tp1295  
a(g6  
V/Tools/scripts/idle  
p1296  
tp1297  
a(g6  
V  
tp1298  
a(g6  
V>  
tp1299  
a(g6  
V  
tp1300  
a(g138  
V\${  
p1301  
tp1302  
a(g100  
VWRKDIR  
p1303  
tp1304  
a(g138  
V}  
tp1305  
a(g6  
V/idle2.5  
p1306  
tp1307  
a(g6  
V\u000a  
p1308  
tp1309  
a(g138  
V\${  
p1310  
tp1311  
a(g100

VSED  
p1312  
tp1313  
a(g138  
V}  
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p1316  
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tp1318  
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V'1s,^.\*\$\$,#!\${PREFIX}/bin/\${PYTHON\_VERSION},'  
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p1326  
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p1328  
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V/Lib/smtpd.py  
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tp1340  
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V/smtpd2.5.py  
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V\u000a  
p1343  
tp1344  
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p1345  
tp1346  
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p1347  
tp1348  
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V-e  
p1351  
tp1352  
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tp1353  
a(g262



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p1356  
tp1357  
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V's,/usr/doc/python-docs-,{PREFIX}/share/doc/python,g'  
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tp1360  
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tp1362  
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p1363  
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p1365  
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VPATCH\_WRKSRC  
p1367  
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tp1369  
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V/Lib/pydoc.py  
p1370  
tp1371  
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p1372  
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p1376

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p1385  
tp1386  
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V's|^\\u005c( \*prefixes = .\*\\u005c)\u005c]\$\$\\u005c1, "{\$X11BASE}")|g'  
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V/Lib/site.py  
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tp1413  
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V  
p1414  
tp1415  
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V's|^ \u005c(..ASDLGEN.\*\u005c)\$| \${TRUE}|g'  
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tp1420

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VREINPLACE\_CMD  
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V-e  
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tp1442

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p1443  
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V's|\*\u005c(..INSTALL\_SCRIPT.\*\u005c)python-config\$|#port \u005c1'  
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tp1447  
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V\${  
p1452  
tp1453  
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VPATCH\_WRKSRC  
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V}  
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V/Makefile.pre.in  
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V\u000a\u000a  
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tp1460  
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V\${  
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tp1462  
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VSED  
p1463  
tp1464  
a(g138  
V}

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tp1466  
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V-e  
p1467  
tp1468  
a(g6  
V  
tp1469  
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V's|^#!.\*|#!\${PREFIX}/bin/\${PYTHON\_VERSION}!'  
p1470  
tp1471  
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V  
tp1472  
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tp1474  
a(g6  
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tp1476  
a(g138  
V\${  
p1477  
tp1478  
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VPATCH\_WRKSRC  
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V/Misc/python-config.in  
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V  
tp1484  
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V>  
tp1485  
a(g6

V  
tp1486  
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p1487  
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VWRKDIR  
p1489  
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V}  
tp1491  
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V/  
tp1492  
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V\${  
p1493  
tp1494  
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VPYTHON\_VERSION  
p1495  
tp1496  
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V}  
tp1497  
a(g6  
V-config  
p1498  
tp1499  
a(g6  
V\u000a  
p1500  
tp1501  
a(g138  
V\${  
p1502  
tp1503  
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VSED  
p1504  
tp1505  
a(g138  
V}  
tp1506  
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tp1507  
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V-e  
p1508  
tp1509  
a(g6  
V  
tp1510  
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V's|^#!.\*|#{PREFIX}/bin/\${PYTHON\_VERSION:S/thon/thon-shared/}'  
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V  
tp1513  
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V\u005c\u000a  
p1514  
tp1515  
a(g6  
V  
p1516  
tp1517  
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V\${  
p1518  
tp1519  
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VPATCH\_WRKSRC  
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tp1524  
a(g6  
V  
tp1525  
a(g6  
V>  
tp1526  
a(g6  
V  
tp1527  
a(g138



V\${  
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VWRKDIR  
p1530  
tp1531  
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tp1532  
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V/  
tp1533  
a(g138  
V\${  
p1534  
tp1535  
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VPYTHON\_VERSION  
p1536  
tp1537  
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V:  
tp1538  
a(g100  
VS  
tp1539  
a(g212  
V/thon/thon-shared/  
p1540  
tp1541  
a(g138  
V}  
tp1542  
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V-config  
p1543  
tp1544  
a(g6  
V\u000a\u000a  
p1545  
tp1546  
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V.if defined(WITH\_FPECTL) && \${ARCH} == i386\u000a  
p1547  
tp1548  
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V

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p1550  
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VMKDIR  
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V}  
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V  
tp1555  
a(g138  
V\${  
p1556  
tp1557  
a(g100  
VWRKSRC  
p1558  
tp1559  
a(g138  
V}  
tp1560  
a(g6  
V/Modules  
p1561  
tp1562  
a(g6  
V\u000a  
p1563  
tp1564  
a(g138  
V\${  
p1565  
tp1566  
a(g100  
VECHO  
p1567  
tp1568  
a(g138  
V}  
tp1569  
a(g6  
V  
tp1570

a(g255  
V"fpectl fpectlmodule.c"  
p1571  
tp1572  
a(g6  
V  
tp1573  
a(g6  
V>>  
p1574  
tp1575  
a(g6  
V  
tp1576  
a(g138  
V\${  
p1577  
tp1578  
a(g100  
VWRKSRC  
p1579  
tp1580  
a(g138  
V}  
tp1581  
a(g6  
V/Modules/Setup.dist  
p1582  
tp1583  
a(g6  
V\u000a  
tp1584  
a(g27  
V.endif\u000a  
p1585  
tp1586  
a(g6  
V\u000a  
tp1587  
a(g6  
Vpost-configure:  
p1588  
tp1589  
a(g6  
V\u000a  
p1590  
tp1591  
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p1592  
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VTAR  
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tp1597  
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V-C  
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tp1606  
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tp1609  
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tp1610  
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tp1611  
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V.  
tp1612  
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tp1613  
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V|  
tp1614  
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tp1615  
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p1622  
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p1625  
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V-xf

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tp1633  
a(g6  
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tp1634  
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V\u000a  
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tp1636  
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VLN  
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tp1642  
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V-sf  
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tp1645  
a(g138  
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p1646  
tp1647  
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p1648  
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tp1652

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V\${  
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tp1655  
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VWRKSRC  
p1656  
tp1657  
a(g138  
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tp1658  
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V/Lib  
p1659  
tp1660  
a(g6  
V\u000a  
p1661  
tp1662  
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V\${  
p1663  
tp1664  
a(g100  
VSED  
p1665  
tp1666  
a(g138  
V}  
tp1667  
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V  
tp1668  
a(g6  
V-e  
p1669  
tp1670  
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tp1671  
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V's,^\u005c(LDLIBRARY=\u005c).\*\$\$,\u005c1libpython\$(VERSION).so,'  
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tp1674  
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p1675  
tp1676  
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V  
p1677  
tp1678  
a(g6  
V-e  
p1679  
tp1680  
a(g6  
V  
tp1681  
a(g281  
V's,^\u005c(BLDLIBRARY=\u005c).\*\$\$,\u005c1-L. -lpython\$\$ (VERSION),'  
p1682  
tp1683  
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V  
tp1684  
a(g262  
V\u005c\u000a  
p1685  
tp1686  
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V  
p1687  
tp1688  
a(g6  
V-e  
p1689  
tp1690  
a(g6  
V  
tp1691  
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V's,^\u005c(CFLAGSFORSHARED=\u005c).\*\$\$,\u005c1\$\$ (CCSHARED),'  
p1692  
tp1693  
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V  
tp1694  
a(g262  
V\u005c\u000a



p1695  
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V  
p1697  
tp1698  
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V-e  
p1699  
tp1700  
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V  
tp1701  
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V's,^\u005c(Makefile Modules/config.c:.\*\u005c)Makefile.pre,\u005c1,'  
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V's,^\u005c(. (BUILDPYTHON)\u005c:.\*\u005c).(LIBRARY),\u005c1,'  
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V-e  
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V's,^\u005c(. (BUILDPYTHON):.\*\u005c).(LIBRARY),\u005c1,'  
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tp1724  
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V\u005c\u000a  
p1725  
tp1726  
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tp1730  
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V/Makefile  
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V/Makefile  
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Vpre-build:  
p1748  
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Vcd  
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V  
tp1792  
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Vpython;  
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tp1794  
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V  
tp1795  
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V\${  
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VLN  
p1801  
tp1802

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V-f  
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tp1807  
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tp1809  
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V.so  
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a(g6  
Vlib  
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tp1823  
a(g138

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V.so.1;  
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V  
tp1827  
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V\u005c\u000a  
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tp1830  
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tp1832  
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VLN  
p1833  
tp1834  
a(g138  
V}  
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a(g6  
V  
tp1836  
a(g6  
V-f  
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tp1838  
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V  
tp1839  
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Vpython  
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tp1842  
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V\${  
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tp1844

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V:  
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a(g100  
VS  
tp1848  
a(g212  
V/thon/thon-shared/  
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tp1850  
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V}  
tp1851  
a(g6  
V\u000a\u000a  
p1852  
tp1853  
a(g6  
Vpre-su-install:  
p1854  
tp1855  
a(g6  
V\u000a  
tp1856  
a(g27  
V.for platform in \${PLATFORMS}\u000a  
p1857  
tp1858  
a(g6  
V  
tp1859  
a(g138  
V\${  
p1860  
tp1861  
a(g100  
VMKDIR  
p1862  
tp1863  
a(g138  
V}  
tp1864  
a(g6  
V



tp1865  
a(g138  
V\${  
p1866  
tp1867  
a(g100  
VPYTHONPREFIX\_LIBDIR  
p1868  
tp1869  
a(g138  
V}  
tp1870  
a(g6  
V/  
tp1871  
a(g138  
V\${  
p1872  
tp1873  
a(g100  
Vplatform  
p1874  
tp1875  
a(g138  
V}  
tp1876  
a(g6  
V\u000a  
tp1877  
a(g27  
V.for file in IN.py regen\u000a  
p1878  
tp1879  
a(g6  
V  
tp1880  
a(g138  
V\${  
p1881  
tp1882  
a(g100  
VINSTALL\_DATA  
p1883  
tp1884  
a(g138  
V}  
tp1885  
a(g6

V  
tp1886  
a(g138  
V\${  
p1887  
tp1888  
a(g100  
VWRKSRC  
p1889  
tp1890  
a(g138  
V}  
tp1891  
a(g6  
V/Lib/  
p1892  
tp1893  
a(g138  
V\${  
p1894  
tp1895  
a(g100  
Vplatform  
p1896  
tp1897  
a(g138  
V}  
tp1898  
a(g6  
V/  
tp1899  
a(g138  
V\${  
p1900  
tp1901  
a(g100  
Vfile  
p1902  
tp1903  
a(g138  
V}  
tp1904  
a(g6  
V  
tp1905  
a(g262  
V\u005c\u000a  
p1906

tp1907  
a(g6  
V  
p1908  
tp1909  
a(g138  
V\${  
p1910  
tp1911  
a(g100  
VPYTHONPREFIX\_LIBDIR  
p1912  
tp1913  
a(g138  
V}  
tp1914  
a(g6  
V/  
tp1915  
a(g138  
V\${  
p1916  
tp1917  
a(g100  
Vplatform  
p1918  
tp1919  
a(g138  
V}  
tp1920  
a(g6  
V/  
tp1921  
a(g6  
V\u000a  
tp1922  
a(g27  
V.endfor\u000a  
p1923  
tp1924  
a(g6  
V  
tp1925  
a(g27  
V.endfor\u000a  
p1926  
tp1927  
a(g6

V\u000a  
tp1928  
a(g6  
Vpre-install:  
p1929  
tp1930  
a(g6  
V\u000a  
p1931  
tp1932  
a(g138  
V\${  
p1933  
tp1934  
a(g100  
VCAT  
p1935  
tp1936  
a(g138  
V}  
tp1937  
a(g6  
V  
tp1938  
a(g138  
V\${  
p1939  
tp1940  
a(g100  
VPLIST\_TEMPLATE  
p1941  
tp1942  
a(g138  
V}  
tp1943  
a(g6  
V  
tp1944  
a(g6  
V|  
tp1945  
a(g6  
V  
tp1946  
a(g138  
V\${  
p1947  
tp1948

a(g100  
VAWK  
p1949  
tp1950  
a(g138  
V}  
tp1951  
a(g6  
V  
tp1952  
a(g281  
V'{ print \$\$0; } \u005c\u000a /LIBDIR.\*\u005c.py\$\$/ && !\u005c/bad/ { print \$\$0 "o"; print \$\$0 "c"; }'  
p1953  
tp1954  
a(g6  
V  
tp1955  
a(g6  
V>  
tp1956  
a(g6  
V  
tp1957  
a(g138  
V\${  
p1958  
tp1959  
a(g100  
VPLIST  
p1960  
tp1961  
a(g138  
V}  
tp1962  
a(g6  
V\u000a\u000a  
p1963  
tp1964  
a(g24  
V @# if openssl 0.9.8 is detected, \_sha{256,512} module won't be installed\u000a  
p1965  
tp1966  
a(g6  
V  
tp1967  
a(g353  
V(  
tp1968

a(g353  
V[  
tp1969  
a(g6  
V  
tp1970  
a(g6  
V-f  
p1971  
tp1972  
a(g6  
V  
tp1973  
a(g138  
V\${  
p1974  
tp1975  
a(g100  
VWRKSRC  
p1976  
tp1977  
a(g138  
V}  
tp1978  
a(g6  
V/.without\_own\_sha  
p1979  
tp1980  
a(g6  
V  
tp1981  
a(g353  
V]  
tp1982  
a(g6  
V  
tp1983  
a(g353  
V&&  
p1984  
tp1985  
a(g6  
V  
tp1986  
a(g262  
V\u005c\u000a  
p1987  
tp1988

a(g6  
V  
p1989  
tp1990  
a(g138  
V\${  
p1991  
tp1992  
a(g100  
VGREP  
p1993  
tp1994  
a(g138  
V}  
tp1995  
a(g6  
V  
tp1996  
a(g6  
V-v  
p1997  
tp1998  
a(g6  
V  
tp1999  
a(g281  
V'lib-dynload/\_sha'  
p2000  
tp2001  
a(g6  
V  
tp2002  
a(g138  
V\${  
p2003  
tp2004  
a(g100  
VPLIST  
p2005  
tp2006  
a(g138  
V}  
tp2007  
a(g6  
V  
tp2008  
a(g6  
V>

tp2009  
a(g6  
V  
tp2010  
a(g138  
V\${  
p2011  
tp2012  
a(g100  
VPLIST  
p2013  
tp2014  
a(g138  
V}  
tp2015  
a(g6  
V.tmp  
p2016  
tp2017  
a(g6  
V  
tp2018  
a(g353  
V&&  
p2019  
tp2020  
a(g6  
V  
tp2021  
a(g262  
V\u005c\u000a  
p2022  
tp2023  
a(g6  
V  
p2024  
tp2025  
a(g138  
V\${  
p2026  
tp2027  
a(g100  
VCAT  
p2028  
tp2029  
a(g138  
V}  
tp2030



a(g6  
V  
tp2031  
a(g138  
V\${  
p2032  
tp2033  
a(g100  
VPLIST  
p2034  
tp2035  
a(g138  
V}  
tp2036  
a(g6  
V.tmp  
p2037  
tp2038  
a(g6  
V  
tp2039  
a(g6  
V>  
tp2040  
a(g6  
V  
tp2041  
a(g138  
V\${  
p2042  
tp2043  
a(g100  
VPLIST  
p2044  
tp2045  
a(g138  
V}  
tp2046  
a(g353  
V)  
tp2047  
a(g6  
V  
tp2048  
a(g353  
V||  
p2049  
tp2050

a(g6  
V  
tp2051  
a(g138  
V\${  
p2052  
tp2053  
a(g100  
VTRUE  
p2054  
tp2055  
a(g138  
V}  
tp2056  
a(g6  
V\u000a\u000a  
p2057  
tp2058  
a(g6  
Vpost-install:  
p2059  
tp2060  
a(g6  
V\u000a  
tp2061  
a(g24  
V @# install config providers\u000a  
p2062  
tp2063  
a(g6  
V  
tp2064  
a(g138  
V\${  
p2065  
tp2066  
a(g100  
VINSTALL\_SCRIPT  
p2067  
tp2068  
a(g138  
V}  
tp2069  
a(g6  
V  
tp2070  
a(g138  
V\${

p2071  
tp2072  
a(g100  
VWRKDIR  
p2073  
tp2074  
a(g138  
V}  
tp2075  
a(g6  
V/  
tp2076  
a(g138  
V\${  
p2077  
tp2078  
a(g100  
VPYTHON\_VERSION  
p2079  
tp2080  
a(g138  
V}  
tp2081  
a(g6  
V-config  
p2082  
tp2083  
a(g6  
V  
tp2084  
a(g138  
V\${  
p2085  
tp2086  
a(g100  
VPREFIX  
p2087  
tp2088  
a(g138  
V}  
tp2089  
a(g6  
V/bin  
p2090  
tp2091  
a(g6  
V\u000a  
p2092

tp2093  
a(g138  
V\${  
p2094  
tp2095  
a(g100  
VINSTALL\_SCRIPT  
p2096  
tp2097  
a(g138  
V}  
tp2098  
a(g6  
V  
tp2099  
a(g138  
V\${  
p2100  
tp2101  
a(g100  
VWRKDIR  
p2102  
tp2103  
a(g138  
V}  
tp2104  
a(g6  
V/  
tp2105  
a(g138  
V\${  
p2106  
tp2107  
a(g100  
VPYTHON\_VERSION  
p2108  
tp2109  
a(g212  
V:  
tp2110  
a(g100  
VS  
tp2111  
a(g212  
V/thon/thon-shared/  
p2112  
tp2113  
a(g138

V}  
tp2114  
a(g6  
V-config  
p2115  
tp2116  
a(g6  
V  
tp2117  
a(g138  
V\${  
p2118  
tp2119  
a(g100  
VPREFIX  
p2120  
tp2121  
a(g138  
V}  
tp2122  
a(g6  
V/bin  
p2123  
tp2124  
a(g6  
V\u000a\u000a  
p2125  
tp2126  
a(g24  
V @# shared version of executable and library\u000a  
p2127  
tp2128  
a(g6  
V  
tp2129  
a(g138  
V\${  
p2130  
tp2131  
a(g100  
VINSTALL\_PROGRAM  
p2132  
tp2133  
a(g138  
V}  
tp2134  
a(g6  
V

tp2135  
a(g138  
V\${  
p2136  
tp2137  
a(g100  
VSHARED\_WRKSRC  
p2138  
tp2139  
a(g138  
V}  
tp2140  
a(g6  
V/lib  
p2141  
tp2142  
a(g138  
V\${  
p2143  
tp2144  
a(g100  
VPYTHON\_VERSION  
p2145  
tp2146  
a(g138  
V}  
tp2147  
a(g6  
V.so.1  
p2148  
tp2149  
a(g6  
V  
tp2150  
a(g262  
V\u005c\u000a  
p2151  
tp2152  
a(g6  
V  
p2153  
tp2154  
a(g138  
V\${  
p2155  
tp2156  
a(g100  
VPREFIX

p2157  
tp2158  
a(g138  
V}  
tp2159  
a(g6  
V/lib  
p2160  
tp2161  
a(g6  
V\u000a  
p2162  
tp2163  
a(g84  
Vcd  
p2164  
tp2165  
a(g6  
V  
tp2166  
a(g138  
V\${  
p2167  
tp2168  
a(g100  
VPREFIX  
p2169  
tp2170  
a(g138  
V}  
tp2171  
a(g6  
V/lib;  
p2172  
tp2173  
a(g6  
V  
tp2174  
a(g138  
V\${  
p2175  
tp2176  
a(g100  
VLN  
p2177  
tp2178  
a(g138  
V}

tp2179  
a(g6  
V  
tp2180  
a(g6  
V-sf  
p2181  
tp2182  
a(g6  
V  
tp2183  
a(g6  
Vlib  
p2184  
tp2185  
a(g138  
V\${  
p2186  
tp2187  
a(g100  
VPYTHON\_VERSION  
p2188  
tp2189  
a(g138  
V}  
tp2190  
a(g6  
V.so.1  
p2191  
tp2192  
a(g6  
V  
tp2193  
a(g262  
V\u005c\u000a  
p2194  
tp2195  
a(g6  
V  
p2196  
tp2197  
a(g6  
Vlib  
p2198  
tp2199  
a(g138  
V\${  
p2200



tp2201  
a(g100  
VPYTHON\_VERSION  
p2202  
tp2203  
a(g138  
V}  
tp2204  
a(g6  
V.so  
p2205  
tp2206  
a(g6  
V\u000a  
p2207  
tp2208  
a(g138  
V\${  
p2209  
tp2210  
a(g100  
VLN  
p2211  
tp2212  
a(g138  
V}  
tp2213  
a(g6  
V  
tp2214  
a(g6  
V-sf  
p2215  
tp2216  
a(g6  
V  
tp2217  
a(g138  
V\${  
p2218  
tp2219  
a(g100  
VPREFIX  
p2220  
tp2221  
a(g138  
V}  
tp2222

a(g6  
V/lib/lib  
p2223  
tp2224  
a(g138  
V\${  
p2225  
tp2226  
a(g100  
VPYTHON\_VERSION  
p2227  
tp2228  
a(g138  
V}  
tp2229  
a(g6  
V.so  
p2230  
tp2231  
a(g6  
V  
tp2232  
a(g138  
V\${  
p2233  
tp2234  
a(g100  
VPYTHONPREFIX\_LIBDIR  
p2235  
tp2236  
a(g138  
V}  
tp2237  
a(g6  
V/config  
p2238  
tp2239  
a(g6  
V\u000a  
p2240  
tp2241  
a(g138  
V\${  
p2242  
tp2243  
a(g100  
VINSTALL\_PROGRAM  
p2244

tp2245  
a(g138  
V}  
tp2246  
a(g6  
V  
tp2247  
a(g262  
V\u005c\u000a  
p2248  
tp2249  
a(g6  
V  
p2250  
tp2251  
a(g138  
V\${  
p2252  
tp2253  
a(g100  
VSHARED\_WRKSR  
p2254  
tp2255  
a(g138  
V}  
tp2256  
a(g6  
V/  
tp2257  
a(g138  
V\${  
p2258  
tp2259  
a(g100  
VPYTHON\_VERSION  
p2260  
tp2261  
a(g212  
V:  
tp2262  
a(g100  
VS  
tp2263  
a(g212  
V/thon/thon-shared/  
p2264  
tp2265  
a(g138

V}  
tp2266  
a(g6  
V  
tp2267  
a(g262  
V\u005c\u000a  
p2268  
tp2269  
a(g6  
V  
p2270  
tp2271  
a(g138  
V\${  
p2272  
tp2273  
a(g100  
VPREFIX  
p2274  
tp2275  
a(g138  
V}  
tp2276  
a(g6  
V/bin  
p2277  
tp2278  
a(g6  
V\u000a\u000a  
p2279  
tp2280  
a(g24  
V @# additional files installing by ports\u000a  
p2281  
tp2282  
a(g6  
V  
tp2283  
a(g138  
V\${  
p2284  
tp2285  
a(g100  
VINSTALL\_SCRIPT  
p2286  
tp2287  
a(g138

V}  
tp2288  
a(g6  
V  
tp2289  
a(g138  
V\${  
p2290  
tp2291  
a(g100  
VWRKDIR  
p2292  
tp2293  
a(g138  
V}  
tp2294  
a(g6  
V/pydoc2.5  
p2295  
tp2296  
a(g6  
V  
tp2297  
a(g138  
V\${  
p2298  
tp2299  
a(g100  
VWRKDIR  
p2300  
tp2301  
a(g138  
V}  
tp2302  
a(g6  
V/idle2.5  
p2303  
tp2304  
a(g6  
V  
tp2305  
a(g262  
V\u005c\u000a  
p2306  
tp2307  
a(g6  
V  
p2308

tp2309  
a(g138  
V\${  
p2310  
tp2311  
a(g100  
VWRKDIR  
p2312  
tp2313  
a(g138  
V}  
tp2314  
a(g6  
V/smtpd2.5.py  
p2315  
tp2316  
a(g6  
V  
tp2317  
a(g138  
V\${  
p2318  
tp2319  
a(g100  
VPREFIX  
p2320  
tp2321  
a(g138  
V}  
tp2322  
a(g6  
V/bin  
p2323  
tp2324  
a(g6  
V\u000a  
p2325  
tp2326  
a(g6  
V@  
tp2327  
a(g138  
V\${  
p2328  
tp2329  
a(g100  
VMKDIR  
p2330

tp2331  
a(g138  
V}  
tp2332  
a(g6  
V  
tp2333  
a(g138  
V\${  
p2334  
tp2335  
a(g100  
VMANPREFIX  
p2336  
tp2337  
a(g138  
V}  
tp2338  
a(g6  
V/man/man1  
p2339  
tp2340  
a(g6  
V\u000a  
p2341  
tp2342  
a(g138  
V\${  
p2343  
tp2344  
a(g100  
VINSTALL\_MAN  
p2345  
tp2346  
a(g138  
V}  
tp2347  
a(g6  
V  
tp2348  
a(g138  
V\${  
p2349  
tp2350  
a(g100  
VPYTHON\_WRKSRC  
p2351  
tp2352

a(g138  
V}  
tp2353  
a(g6  
V/Misc/python.man  
p2354  
tp2355  
a(g6  
V  
tp2356  
a(g262  
V\u005c\u000a  
p2357  
tp2358  
a(g6  
V  
p2359  
tp2360  
a(g138  
V\${  
p2361  
tp2362  
a(g100  
VMANPREFIX  
p2363  
tp2364  
a(g138  
V}  
tp2365  
a(g6  
V/man/man1/  
p2366  
tp2367  
a(g138  
V\${  
p2368  
tp2369  
a(g100  
VPYTHON\_VERSION  
p2370  
tp2371  
a(g138  
V}  
tp2372  
a(g6  
V.1  
p2373  
tp2374



a(g6  
V\u000a\u000a  
p2375  
tp2376  
a(g27  
V.if \${PYTHON\_VERSION} == \${PYTHON\_DEFAULT\_VERSION}\u000a  
p2377  
tp2378  
a(g6  
V  
tp2379  
a(g138  
Vfor  
p2380  
tp2381  
a(g6  
Vf  
tp2382  
a(g6  
V  
tp2383  
a(g6  
Vin  
p2384  
tp2385  
a(g6  
V  
tp2386  
a(g138  
V\${  
p2387  
tp2388  
a(g100  
VBIN\_SCRIPTS  
p2389  
tp2390  
a(g138  
V}  
tp2391  
a(g6  
V;  
tp2392  
a(g6  
V  
tp2393  
a(g138  
Vdo  
p2394

tp2395  
a(g6  
V  
tp2396  
a(g262  
V\u005c\u000a  
p2397  
tp2398  
a(g6  
V  
p2399  
tp2400  
a(g100  
VTARGET  
p2401  
tp2402  
a(g353  
V=  
tp2403  
a(g274  
V`  
tp2404  
a(g138  
V\${  
p2405  
tp2406  
a(g100  
VECHO\_CMD  
p2407  
tp2408  
a(g138  
V}  
tp2409  
a(g6  
V  
tp2410  
a(g100  
V\$\$  
p2411  
tp2412  
a(g6  
Vf  
tp2413  
a(g6  
V  
tp2414  
a(g6  
V|

tp2415  
a(g6  
V  
tp2416  
a(g138  
V\${  
p2417  
tp2418  
a(g100  
VSED  
p2419  
tp2420  
a(g138  
V}  
tp2421  
a(g6  
V  
tp2422  
a(g6  
V-E  
p2423  
tp2424  
a(g6  
V  
tp2425  
a(g138  
V\${  
p2426  
tp2427  
a(g100  
VBINLINKS\_SUB  
p2428  
tp2429  
a(g138  
V}  
tp2430  
a(g274  
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VCAT  
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V}  
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a.

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## 2.306 python-pyparsing 2.2.0

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# 2.307 python-requests 2.6.0 :1.e17\_1

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Requests includes some vendorized python libraries to ease installation.

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## 2.308 python-suds 0.4.1 :5.e17

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Version 3, 29 June 2007

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## 2.309 python-urllib3 1.10.2 :3.e17

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# Contributions to the urllib3 project

## Creator & Maintainer

\* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

- \* victor.vde <<http://code.google.com/u/victor.vde/>>
  - \* HTTPS patch (which inspired HTTPSConnectionPool)
- \* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
  - \* NTLM-authenticated HTTPSConnectionPool
  - \* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)
- \* niphlod <niphlod@gmail.com>
  - \* Client-verified SSL certificates for HTTPSConnectionPool
  - \* Response gzip and deflate encoding support
  - \* Better unicode support for filepost using StringIO buffers
- \* btoconnor <brian@btoconnor.net>
  - \* Non-multipart encoding for POST requests
- \* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
  - \* Code review, PEP8 compliance, benchmark fix
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  - \* Design review, bugfixes, test coverage.

- \* studer <theo.studer@gmail.com>
- \* IPv6 url support and test coverage
  
- \* Shivaram Lingamneni <slingamn@cs.stanford.edu>
- \* Support for explicitly closing pooled connections
  
- \* hartator <hartator@gmail.com>
- \* Corrected multipart behavior for params
  
- \* Thomas Weischuh <thomas@t-8ch.de>
- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
  
- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <marc.schlaich@gmail.com>
- \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield <<http://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters

- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <http://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <http://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer <asmeurer@gmail.com>
- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes
  
- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture

\* Shivan Sornarajah <github@sornars.com>  
\* Support for using ConnectionPool and PoolManager as context managers.

\* Alex Gaynor <alex.gaynor@gmail.com>  
\* Updates to the default SSL configuration

\* [Your name or handle] <[email or website]>

\* [Brief summary of your changes]

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## 2.310 python-whisper 0.9.16 :1.e17

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To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

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## 2.311 python2-boto 2.45.0 :3.el7

### 2.311.1 Available under license :

```
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# Copyright (c) 2010, Eucalyptus Systems, Inc.
# Copyright (c) 2012 Amazon.com, Inc. or its affiliates.
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# Digital Services, Inc. or its affiliates with respect to your use of
# this software code. (c) 2006 Amazon Digital Services, Inc. or its
# affiliates.
```

## 2.312 python2-crypto 2.6.1 :15.el7

## 2.312.1 Available under license :

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

Hi Mark,

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

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

```
=====
Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in *Intellectual Property and Open Source: A Practical Guide to Protecting Code*, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

```
=====
The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,  
- Dwayne

--

Dwayne C. Litzberger <dlitz@dlitz.net>

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

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <markmoraes@yahoo.com>

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

Delivered-To: dwon@rivest.dlitz.net

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

by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD

for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F

for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)

Received: (vmmailgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600

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

Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198

Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])

by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE

for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)

Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;

bh=OvxbqYnCg7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-

Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;

b=F2h2bFzpQxyKFZ8BhenniyupGw4Zvlekb9BSk91qKU+51W/TkSGBij5YZIhkLQdkQk0qLz5f4g8dT6bOME3s  
EY1j10hlx0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EJhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTqgB  
2aU=

DomainKey-Signature:a=rsa-sha1; q=dns; c=noaws;

s=s1024; d=yahoo.com;

h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;

b=r6RShFF5VzQLg+9tcn1xKuo4Rs4IVvXF6fdqOpQrMyRCxeFoebhuTE35grGqlomOJLwM0+mZwRb6rGkDj7  
63caOAl08Ect/qlADW5izXfmVQaDchTbTqmpsJBmQnTQs9iZ+InrG+3UIwtUSGfX7fhEWmI9P/HBzxf9Wp4b3j  
eo=;

Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>

X-YMail-OSG:

FrK8aWMVM1mFJtLpMGbUbCLjbUQC.i.JkIAKUHSFsFn7t9PbtewAewXJ2uhZGCOIGCX6oVnG3u.CgqzAffY  
4vZSnfTT8wnCkzZNZ\_g6k.XUc3ipo\_6e.92TXl4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWVJYVYtp50clsUFS  
Hzf7Zbpa8P1Yoe\_xSzf3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X  
onq8h\_TmzX9g84Bin9g\_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv\_bj\_Ghxw--

Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT

X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1

Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)

From: M Moraes <markmoraes@yahoo.com>

Reply-To: moraes@computer.org

Subject: Re: PyCrypto license clarification

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

MIME-Version: 1.0

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

Status: RO

X-Status: A

Content-Length: 3222

Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,

Mark.

--- 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.

> The text in the current LICENSE file (quoted below) is not

> entirely clear  
> on the point of whether distributing modified versions is  
> allowed. (It  
> says "distribute and use", but not "modify".)

>  
>

> =====

> Distribute and use freely; there are  
> no restrictions on further  
> dissemination and usage except those  
> imposed by the laws of your  
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> software is provided "as is" without  
> warranty of fitness for use or  
> suitability for any purpose, express  
> or implied. Use at your own risk or  
> not at all.

>  
>

> =====

> Incorporating the code into commercial  
> products is permitted; you do  
> not have to make source available or  
> contribute your changes back  
> (though that would be nice).

>  
>

> --amk

>  
>

> (www.amk.ca)

>

> For the next PyCrypto release, I would like to take steps  
> to move toward a  
> clearer licensing regime. I am asking as many  
> copyright holders as I can  
> find if I can release PyCrypto under something clearer and  
> more standard.  
> Below, I have quoted a public domain dedication that was  
> recommended in  
> Intellectual Property and Open Source: A Practical Guide  
> to Protecting  
> Code\_, by Van Lindberg. I have already contacted A.  
> M. Kuchling, Robey  
> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they  
> have all  
> approved the following dedication for their contributions.

>

> I understand that you have made contributions to



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

>  
>

> =====

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> extent that dedication to the public  
> domain is not available, everyone  
> is granted a worldwide, perpetual,  
> royalty-free, non-exclusive license  
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> the contents of this file for  
> any purpose whatsoever. No  
> rights are reserved.

>

> =====

>

> Regards,  
> - Dwayne

>

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

>

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009  
Date: Mon, 20 Apr 2009 20:01:37 -0400  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: moraes@computer.org  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>  
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
In-Reply-To: <551071.34569.qm@web32405.mail.mud.yahoo.com>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt

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

Status: RO

Content-Length: 3677

Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

>

>Hi Dwayne.

>

>Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

>

>Regards,

>Mark.

>

>--- On Sat, 4/18/09, Dwayne C. Litzemberger <dlitz@dlitz.net> wrote:

>

>> From: Dwayne C. Litzemberger <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.

>> The text in the current LICENSE file (quoted below) is not

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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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>> 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  
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>> find if I can release PyCrypto under something clearer and  
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>> 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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>> the contents of this file for  
>> any purpose whatsoever. No  
>> rights are reserved.  
>>  
>> =====  
>>  
>> Regards,  
>> - Dwayne  
>>  
>> -- Dwayne C. Litzenger <dlitz@dlitz.net>  
>> Key-signing key - 19E1  
>> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>>  
>

--  
Dwayne C. Litzenger <dlitz@dlitz.net>  
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45  
Date: Sun, 23 Nov 2008 15:54:35 -0800  
From: Wim Lewis <wiml@hxxx.org>  
Subject: Re: PyCrypto license clarification  
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
Cc: Wim Lewis <wiml@hxxx.org>  
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hxxx.org>

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

On November 23, 2008, you wrote:

>Hi Wim,  
>  
>I am the new maintainer of the Python Cryptography Toolkit, and I am  
>working on a new release at <http://www.pycrypto.org/>.  
>  
>I understand that you have made contributions to PyCrypto. May I, on  
>your behalf, dedicate to the public domain all your contributions to  
>PyCrypto, with the following notice?  
>  
> =====  
> The contents of this file are dedicated to the public domain. To the  
> extent that dedication to the public domain is not available, everyone  
> is granted a worldwide, perpetual, royalty-free, non-exclusive license  
> to exercise all rights associated with the contents of this file for  
> any purpose whatsoever. No rights are reserved.  
> =====

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128

implementation, which already has a public-domain notice at the top of the file. But I am happy to have that, any any other code of mine that might have wandered in there under an unclear open sourcish license, distributed under the public-domain dedication you quote.

Wim.

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

Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnA18UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4B  
FektbDOzKxgc5580MGGeX/MVn8aw+1BHg0YD85gsntIDzkcQtb+BR/xAvJ5zKyA  
J/Mn/I+16ekJQ3juh8IPHLAduOXM9Rtguas/yR+Doaq0xOPKobx+/5+t1lJtBcZ  
wrPEa9Oui9s=  
=zSY9

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

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

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

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

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

Subject: PyCrypto license clarification

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

MIME-Version: 1.0

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

Content-Disposition: inline

X-Primary-Address: dlitz@dlitz.net

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

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

id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);

preference=unprotected

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

id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);

preference=signencrypt

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

Status: RO

Content-Length: 3461

Lines: 78

--YiEDa0DAkWCtVeE4

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

Content-Disposition: inline

Content-Transfer-Encoding: quoted-printable

Hi Andrew,

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

GPL-compatible, etc. Right now, I'm not really sure what to tell them. =20  
The text in the current LICENSE file (quoted below) is not entirely clear=  
=20  
on the point of whether distributing modified versions is allowed. (It=20  
says "distribute and use", but not "modify".)

=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
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Distribute and use freely; there are no restrictions on further  
dissemination and usage except those imposed by the laws of your  
country of residence. This software is provided "as is" without  
warranty of fitness for use or suitability for any purpose, express  
or implied. Use at your own risk or not at all.

=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
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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'd like to take steps to move toward a=20  
clearer licensing regime. I'm asking as many copyright holders as I can=20  
find, starting with you, if I can release PyCrypto under something clearer=  
=20  
and more standard. Below, I have quoted a public domain dedication that=20  
was recommended in Intellectual Property and Open Source: A Practical=20  
Guide to Protecting Code, by Van Lindberg.

May I, on your behalf, dedicate to the public domain your considerable=20  
contributions to PyCrypto, with the following notice?

=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
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The contents of this file are dedicated to the public domain. To the  
extent that dedication to the public domain is not available, everyone  
is granted a worldwide, perpetual, royalty-free, non-exclusive license  
to exercise all rights associated with the contents of this file for  
any purpose whatsoever. No rights are reserved.

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Regards,

- Dwayne

--=20

Dwayne C. Litzenger <dlitz@dlitz.net>

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

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

--YiEDa0DAkWCtVeE4

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

Content-Description: Digital signature

Content-Disposition: inline

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

Version: GnuPG v1.4.5 (GNU/Linux)

iEYEARECAAYFAkko52IACgkQHfBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ

yloAn33a3ZjkteyJaTbzEqImOEW8JGpf

=aBEW

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

--YiEDa0DAkWCtVeE4--

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

X-Maildir-Dup-Checked: Yes

Return-Path: <amk@amk.ca>

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

Delivered-To: dwon@rivest.dlitz.net

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

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

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

Received: from localhost (localhost [127.0.0.1])

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Subject: Re: PyCrypto license clarification

Message-ID: <20081123125134.GA21239@amk.local>  
Reply-To: amk@amk.ca  
References: <20081123051722.GA29253@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline  
In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>  
User-Agent: Mutt/1.5.13 (2006-08-11)  
Status: RO  
Content-Length: 537  
Lines: 15

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

The intention is that it be public domain.

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

You may.

--amk  
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009  
Date: Sat, 28 Feb 2009 21:45:09 -0500  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: Barry A Warsaw <barry@python.org>  
Subject: PyCrypto license clarification  
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2535

Hi Barry,

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

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



says "distribute and use", but not "modify".)

=====  
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.  
=====

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

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 dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=====  
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.  
=====

Regards,  
- Dwayne

--

Dwayne C. Litzengerger <dlitz@dlitz.net>

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

From barry@python.org Mon Mar 2 11:29:39 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <barry@python.org>

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

Delivered-To: dwon@rivest.dlitz.net  
Received: from goedel.dlitz.net (unknown [10.159.255.6])  
by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B  
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A  
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)  
Received: (vmmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600  
Delivered-To: m-dlitz-dlitz@dlitz.net  
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;  
envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230  
Received: from mail.wooz.org (216-15-33-230.c3-0.slv-ubr2.lnh-slv.md.static.cable.rcn.com [216.15.33.230])  
by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073  
for <dlitz@dlitz.net>; Mon, 2 Mar 2009 10:29:38 -0600 (CST)  
Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])  
by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F  
for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)  
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>  
From: Barry Warsaw <barry@python.org>  
To: Dwayne C. Litzenger <dlitz@dlitz.net>  
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>  
Content-Type: text/plain; charset=US-ASCII; format=flowed; delpsp=yes  
Content-Transfer-Encoding: quoted-printable  
Mime-Version: 1.0 (Apple Message framework v930.3)  
Subject: Re: PyCrypto license clarification  
Date: Mon, 2 Mar 2009 11:29:34 -0500  
References: <20090301024509.GA13195@rivest.dlitz.net>  
X-Pgp-Agent: GPGMail d55 (v55, Leopard)  
X-Mailer: Apple Mail (2.930.3)  
Status: RO  
Content-Length: 869

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

Hash: SHA1

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

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=  
> working on a new release at <http://www.pycrypto.org/>.

Great! I'm glad to see someone taking up the mantle of this important =20=

Python library.

> I understand that you have made contributions to PyCrypto. May I, =20=  
> on your behalf, dedicate to the public domain all your contributions =20=

> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,  
Barry

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

Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLdHI6agk  
evkInSJQAcVHIznVIVeR5IXgvDUMakZjU4SOV7MqkhsKA9IIet7PaD9VSYgn3ra5  
gElwI2DQDoOy5GEXMm74gqrrb1PCCbCRmpaYNo+DZohwHkeFBjbwDRA3wItOrH7  
SK4w9VBJfY=3D  
=3DQduY

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

From dlitz@dlitz.net Sun Aug 2 21:48:25 2009

Date: Sun, 2 Aug 2009 21:48:25 -0400

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

To: Paul Swartz <paulswartz@gmail.com>

Subject: PyCrypto license clarification

Message-ID: <20090803014825.GA1326@rivest.dlitz.net>

MIME-Version: 1.0

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

Content-Disposition: inline

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

Status: RO

Content-Length: 2631

Hi Paul,

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

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

```
=====
Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

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

=====  
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.  
=====

Regards,  
- Dwayne

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

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009  
X-Maildir-Dup-Checked: Yes  
Return-Path: <paulswartz@gmail.com>  
X-Original-To: dwon@rivest.dlitz.net  
Delivered-To: dwon@rivest.dlitz.net  
Received: from goedel.dlitz.net (unknown [10.159.255.6])  
by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4  
for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068  
for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)  
Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600  
Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (gmail.com ... \_spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159

Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])

by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066

for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)

Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3

for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;

d=gmail.com; s=gamma;

h=domainkey-signature:mime-version:received:in-reply-to:references

:from:date:message-id:subject:to:content-type

:content-transfer-encoding;

bh=A0RHBf0TnribKS5qOHJ3WYbkZ+b0cuPeuoKAvpApWcc=;

b=gyTqkRhKIHadFKIZCBWsRbnMNVdQ1PWlJbyC0EvxPskaoHr3HAR96MWQNBePu/40Ac

Vn55qlIqTdom4e9zlUEE6MwZo9kqi/Qw0L/SLib0DlQeNqo/eHYqPmuVswltaYwNAyMJ

Y9++76rPGzqYdALsfvsmwv7Q3/bEmjVTr0tQE=

DomainKey-Signature: a=rsa-sha1; c=noFWS;

d=gmail.com; s=gamma;

h=mime-version:in-reply-to:references:from:date:message-id:subject:to

:content-type:content-transfer-encoding;

b=jze7KSMkUGilfVCXKXaaXMi5NAtGdMQOtVZZfRNyGSy68xOd2sxefjyyig3EFT6Nv6

Q3opUMsT96Q6zjZND55w446kTh2uBTNz4d3NwIeEWJnG3xcliRQu/mXPFP8AzPI3CefL

1ornJLM1eQ2XyuZA73jem+SJtfdHUcSD1UhgI=

MIME-Version: 1.0

Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,

03 Aug 2009 09:14:03 -0700 (PDT)

In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>

References: <20090803014825.GA1326@rivest.dlitz.net>

From: Paul Swartz <paulswartz@gmail.com>

Date: Mon, 3 Aug 2009 12:13:43 -0400

Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>

Subject: Re: PyCrypto license clarification

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

Content-Type: text/plain; charset=UTF-8

Content-Transfer-Encoding: quoted-printable

Status: RO

X-Status: A

Content-Length: 1450

On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenger<dlitz@dlitz.net> wro=

te:

> Hi Paul,

>

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

> working on a new release at <http://www.pycrypto.org/>.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname  
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=  
blic  
> domain all your contributions to PyCrypto, with the following notice?  
>  
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=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=A0to exercise all rights associated with the contents of this file fo=  
r  
> =C2=A0any purpose whatsoever. =C2=A0No rights are reserved.  
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
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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>  
References: <20090803014825.GA1326@rivest.dlitz.net>  
<324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1; format=flowed  
Content-Disposition: inline  
Content-Transfer-Encoding: 8bit  
In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: <http://www.dlitz.net/>  
X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;

id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

>On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenger<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. May I, on your behalf, dedicate to the public

>> domain all your contributions to PyCrypto, with the following notice?

>>

>> =====

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>> extent that dedication to the public domain is not available, everyone  
>> is granted a worldwide, perpetual, royalty-free, non-exclusive license  
>> to exercise all rights associated with the contents of this file for  
>> any purpose whatsoever. No rights are reserved.

>> =====

>

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

Perfect! Thanks for the quick response!

--

Dwayne C. Litzenger <dlitz@dlitz.net>

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

From dlitz@dlitz.net Mon May 4 22:49:14 2009

Date: Mon, 4 May 2009 22:49:14 -0400

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

To: Joris Bontje <joris@bontje.nl>

Subject: PyCrypto license clarification

Message-ID: <20090505024914.GA9219@rivest.dlitz.net>

MIME-Version: 1.0

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

Content-Disposition: inline

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

Status: RO

Content-Length: 2553

Hi Joris,

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

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

```
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=====
```

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--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they have all approved the following dedication for their contributions.

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=====
```



Regards,  
- Dwayne

--

Dwayne C. Litzenger <dlitz@dlitz.net>

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

From joris@bontje.nl Tue May 5 03:08:32 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <joris@bontje.nl>

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

Delivered-To: dwon@rivest.dlitz.net

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

by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 03:08:32 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 2315B40583

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 01:08:32 -0600 (CST)

Received: (vmmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600

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

Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97

Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])

by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C

for <dlitz@dlitz.net>; Tue, 5 May 2009 01:08:30 -0600 (CST)

Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000

Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])

(envelope-sender <joris@bontje.nl>)

by 10.170.1.96 (qmail-ldap-1.03) with SMTP

for <>; 5 May 2009 07:08:25 -0000

Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)

id 9BE9B15759B; Tue, 5 May 2009 09:08:25 +0200 (CEST)

Received: from firewall66.interaccess.nl (firewall66.interaccess.nl

[193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;

Tue, 05 May 2009 09:08:25 +0200

Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>

Date: Tue, 05 May 2009 09:08:25 +0200

From: joris@bontje.nl

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

Subject: Re: PyCrypto license clarification

References: <20090505024914.GA9219@rivest.dlitz.net>

In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset=ISO-8859-1;

format="flowed"

Content-Disposition: inline

Content-Transfer-Encoding: 7bit

User-Agent: Internet Messaging Program (IMP) H3 (4.1.3)

Status: RO

X-Status: A

Content-Length: 3488

Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

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

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> Incorporating the code into commercial products is permitted; you do

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

From dlitz@dlitz.net Tue May 5 17:53:47 2009  
Date: Tue, 5 May 2009 17:53:47 -0400  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: joris@bontje.nl  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090505215347.GB9933@rivest.dlitz.net>  
References: <20090505024914.GA9219@rivest.dlitz.net>  
<20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
In-Reply-To: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>  
X-Primary-Address: dlitz@dlitz.net

X-Homepage: <http://www.dlitz.net/>  
X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 3863

Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:

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```
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>> or implied. Use at your own risk or not at all.
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>> =====
>>
>> Regards,
>> - Dwayne
>>
>> --
>> Dwayne C. Litzenger <dlitz@dlitz.net>
>> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>
>
--
Dwayne C. Litzenger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
```

Date: Mon, 16 Feb 2009 12:58:00 -0800  
From: Robey Pointer <robey@lag.net>  
Subject: Re: PyCrypto license clarification  
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)  
Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

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

Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenger wrote:

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> toward a clearer licensing regime. I am asking as many copyright  
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> any purpose whatsoever. No rights are reserved.

>  
> =

> =====

>

In case I haven't replied to this yet: Yes, this is fine with me.

robey

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

Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCfQmYYuVODvIlyLg0hgCI9LAbQ  
SH8AoLJgaq1lli7/ZYDc+/Cd8VO0xLbr  
=Mv6g  
-----END PGP SIGNATURE-----

00INDEX     This file  
LICENSE.orig   Original (deprecated) license for the Python Cryptography Toolkit  
LICENSE.libtom   LICENSE file from LibTomCrypt  
stmts/         Statements by contributors  
A. HISTORY OF THE SOFTWARE

=====

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

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

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

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

| Release from   | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | no                  |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |

|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2.1 | 2.2   | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |

Footnotes:

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):

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

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

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)
2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones

based on Tom St. Denis's public-domain LibTomCrypt library.)

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

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

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:

Note that the export or re-export of cryptographic software and/or source code may be subject to regulation in your jurisdiction.

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

X-Maildir-Dup-Checked: Yes

Return-Path: <dlitz@dlitz.net>

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

Delivered-To: dwon@rivest.dlitz.net

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

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

for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA  
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)  
Received: (vmmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600  
Delivered-To: m-dlitz-dlitz@dlitz.net  
Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)  
Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])  
by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088  
for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)  
Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk  
[193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS  
15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;  
Thu, 28 Aug 2008 01:45:02 +0100  
To: crypt@bis.doc.gov,  
enc@nsa.gov,  
web\_site@bis.doc.gov,  
pycrypto@lists.dlitz.net,  
PYTHON-CRYPTO@NIC.SURFNET.NL,  
dlitz@dlitz.net  
Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net  
designates 64.5.53.201 as permitted sender) identity=mailfrom;  
client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;  
helo=goedel.dlitz.net; mechanism=-all; envelope-from=dlitz@dlitz.net;  
Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by  
m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id  
taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100  
Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1])  
by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1  
for <post@stamper.itconsult.co.uk>; Wed, 27 Aug 2008 18:42:56 -0600 (CST)  
Received: by rivest.dlitz.net (Postfix, from userid 1000)  
id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT)  
Received: by rivest.dlitz.net (tmda-sendmail, from uid 1000);  
Wed, 27 Aug 2008 20:42:54 -0400  
Date: Wed, 27 Aug 2008 20:42:54 -0400  
Cc: post@stamper.itconsult.co.uk  
Subject: PyCrypto TSU NOTIFICATION  
Message-ID: <20080828004254.GA31214@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);

preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
X-Delivery-Agent: TMDA/1.1.9 (Jura)  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
X-DNSBL: 0  
Status: O  
Content-Length: 2182  
Lines: 65

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

#####

#  
# This is a proof of posting certificate from  
# stamper.itconsult.co.uk certifying that a user  
# claiming to be:-  
# dlitz@dlitz.net  
# requested that this message be sent to:-  
# crypt@bis.doc.gov  
# enc@nsa.gov  
# web\_site@bis.doc.gov  
# pycrypto@lists.dlitz.net  
# PYTHON-CRYPTO@NIC.SURFNET.NL  
# dlitz@dlitz.net  
#  
# This certificate was issued at 00:45 (GMT)  
# on Thursday 28 August 2008 with reference 0520978  
#  
# CAUTION: while the message may well be from the sender  
# indicated in the "From:" header, the sender  
# has NOT been authenticated by this service  
#  
# For information about the Stamper service see  
# <http://www.itconsult.co.uk/stamper.htm>  
#

#####

SUBMISSION TYPE: TSU  
SUBMITTED BY: Dwayne C. Litzenger  
SUBMITTED FOR: Dwayne C. Litzenger  
POINT OF CONTACT: Dwayne C. Litzenger  
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. Litzenger <dlitz@dlitz.net>

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

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

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

Version: 2.6.3i

Charset: noconv

Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGVnbVwth+BAQEcuwf9EWnXLqSO5bPzR9K9QnTPcsKbTljKjPxr  
d+q0E7eE8VtnvviUcTAR9o27yvzOPxdFT864MQA7OTSbPK39aGAgA4fgAgvYH9t  
UNjJ/kv8QLz/aa2fi/HNjyrwnqFnUI0uqwpOrQGbz8Y+SGpVh1gKqy1Ju45L+doq  
sxbzCOpjgRv2zDdNR/2SnFmDWQXv8dSeonwIHpQDft8/LVA/gHiTDmteQlOhJQ6o  
XYhY+HbRjsD741/GSpOt9IIN5ln0UgshFoLIndnNSAvWf4aPyh5KCN7ho+/BC0v/  
W/pqSSIPkwmbhlPHoOltTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==  
=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:

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.

=== 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. Litzenger" <dlitz@dlitz.net>  
To: Jeethu Rao <jeethurao@gmail.com>  
Subject: PyCrypto license clarification  
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2513

Hi Jeethu,

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

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

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=====

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?

=====  
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. Litzengerger <dlitz@dlitz.net>

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

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009  
X-Maildir-Dup-Checked: Yes  
Return-Path: <jeethurao@gmail.com>  
X-Original-To: dwon@rivest.dlitz.net  
Delivered-To: dwon@rivest.dlitz.net  
Received: from goedel.dlitz.net (unknown [10.159.255.6])  
by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9  
for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB  
for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)  
Received: (vmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600  
Delivered-To: m-dlitz-dlitz@dlitz.net  
Received-SPF: pass (gmail.com ... \_spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in  
'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-  
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 k29so1252333rvb.26  
for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)  
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;  
d=gmail.com; s=gamma;  
h=domainkey-signature:mime-version:received:in-reply-to:references  
:date:message-id:subject:from:to:content-type;  
bh=YWy9U32WCU/ksRqkHwaOZyJQBU4Yvt5mI20U6mI/g=;  
b=oMjI22IIxYiJKge2zNjW3rRiUi9LqFXmey5Wp0pLlItuNF+X3duyfhopTuBAKw7MwVY  
B5E6VQuGVEyzBbNscytVgq6DhQiQtouCLZymSViobmuDmKn5DtUKoxpDk0xCxQmHYaas  
L9/A6D3/J66kKrNBgX9mc0GPcZTviVFYkPR0Q=  
DomainKey-Signature: a=rsa-sha1; c=noFWS;  
d=gmail.com; s=gamma;  
h=mime-version:in-reply-to:references:date:message-id:subject:from:to  
:content-type;  
b=Ym7CStuDEFJKay1AJyWzkZmJA1lnTcwCG6akBHAXLld8ht6PFcmIsffzZG8hJCIVJ8  
vljqcT+G6cywVTBw1pyGX7ECYzr0+vhGvgdpACGrS24zikHfpSSd5GFogzXaLvGVH8p  
bqSHpfWKKtEP4gAQkiNeIq1GNtR2j8U3fnRyg=  
MIME-Version: 1.0  
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;  
Sun, 08 Mar 2009 14:27:54 -0700 (PDT)  
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>  
References: <20090301042414.GA15122@rivest.dlitz.net>  
Date: Mon, 9 Mar 2009 02:57:54 +0530  
Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>  
Subject: Re: PyCrypto license clarification  
From: Jeethu Rao <jeethurao@gmail.com>  
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054  
Status: RO

Content-Length: 7668

--000e0cd209d0e5a3d40464a23054

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.

I don't really check this email address all that often,

please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenger <dlitz@dlitz.net> wrote:

> Hi Jeethu,

>

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

>

> People often ask me what license PyCrypto is covered by, if it's  
> GPL-compatible, etc. Right now, I'm not really sure what to tell them. The  
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> point of whether distributing modified versions is allowed. (It says  
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>

> =====  
> Distribute and use freely; there are no restrictions on further  
> dissemination and usage except those imposed by the laws of your  
> country of residence. This software is provided "as is" without  
> warranty of fitness for use or suitability for any purpose, express  
> or implied. Use at your own risk or not at all.  
> =====

>

> Incorporating the code into commercial products is permitted; you do  
> not have to make source available or contribute your changes back  
> (though that would be nice).

>

> --amk (www.amk.ca)

>

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>

> =====

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> extent that dedication to the public domain is not available, everyone

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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. Litzemberger <dlitz@dlitz.net>

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

>

--

Jeethu Rao

--000e0cd209d0e5a3d40464a23054

Content-Type: text/html; charset=ISO-8859-1

Content-Transfer-Encoding: quoted-printable

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256 module, IIRC). I'd be fine with the public domain license for PyCrypto. Jeethu Rao PS: Apologies for the delay in my response.

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Hi Jeethu,

<br>

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<br>

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<br>

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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).

<br>

--amk

<br>

<http://www.amk.ca>

<br>

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## 2.315 pytz 2015.4

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## 2.317 qdox-1.6.1-1jpp.ep1.5.el5 1.6.1

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## 2.318 qemu 1.5.3-156.el7\_5.2

## 2.319 quartz 1.6.2

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## 2.324 rfc3986 1.1.0

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## 2.325 ruby 2.0.0.648-33.e17\_4

**2.326 ruby-irb 2.0.0.648-33.el7\_4**

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**2.328 rubygem-bigdecimal 1.2.0-33.el7\_4**

**2.329 rubygem-io-console 0.4.2-33.el7\_4**

**2.330 rubygem-json 1.7.7-33.el7\_4**

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**2.332 rubygem-rdoc 4.0.0-33.el7\_4**

**2.333 rubygems 2.0.14.1-33.el7\_4**

**2.334 rxjava 1.1.0**

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## 2.335 samba-common 3.6.23

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./.gitignore X 2009
./ChangeLog X 2003,2004,2005,2006,2007
./LICENSE X 2003,2004,2005,2006,2007
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./Makefile MAKE 2003,2004,2005,2006,2007,2009
./README X 2003,2004,2005,2006,2007
./TODO X 2003,2004,2005,2006,2007
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./dns/rdtype/txtbase.py PYTHON 2006,2007,2009,2010  
./dns/renderer.py PYTHON 2001,2002,2003,2004,2005,2006,2007,2009,2010  
./dns/resolver.py PYTHON 2003,2004,2005,2006,2007,2009,2010  
./dns/reversename.py PYTHON 2006,2007,2009,2010  
./dns/rrset.py PYTHON 2003,2004,2005,2006,2007,2009,2010  
./dns/set.py PYTHON 2003,2004,2005,2006,2007,2009,2010  
./dns/tokenizer.py PYTHON 2003,2004,2005,2006,2007,2009,2010  
./dns/tsig.py PYTHON 2001,2002,2003,2004,2005,2006,2007,2009,2010  
./dns/tsigkeyring.py PYTHON 2003,2004,2005,2006,2007,2009,2010  
./dns/ttl.py PYTHON 2003,2004,2005,2006,2007,2009,2010  
./dns/update.py PYTHON 2003,2004,2005,2006,2007,2009,2010  
./dns/version.py PYTHON 2003,2004,2005,2006,2007,2009,2010  
./dns/zone.py PYTHON 2003,2004,2005,2006,2007,2009,2010  
./examples/ddns.py X 2006,2007  
./examples/e164.py X 2006,2007  
./examples/mx.py X 2003,2004,2005,2006,2007  
./examples/name.py X 2003,2004,2005,2006,2007  
./examples/reverse.py X 2003,2004,2005,2006,2007  
./examples/reverse\_name.py X 2006,2007  
./examples/xfr.py X 2003,2004,2005,2006,2007  
./setup.py PYTHON 2003,2004,2005,2006,2007,2009,2010  
./tests/Makefile MAKE 2003,2004,2005,2006,2007,2009,2010  
./tests/bugs.py PYTHON 2006,2007,2009,2010  
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./tests/example1.good X 2003,2004,2005,2006,2007  
./tests/example2.good X 2003,2004,2005,2006,2007  
./tests/flags.py PYTHON 2003,2004,2005,2006,2007,2009,2010  
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./tests/resolver.py PYTHON 2003,2004,2005,2006,2007,2009,2010

./tests/rrset.py PYTHON 2003,2004,2005,2006,2007,2009,2010  
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./tests/zone.py PYTHON 2003,2004,2005,2006,2007,2009,2010  
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## 2.336 sctp 1.7.8

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## 2.338 simplejson 3.7.3

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## 2.339 simplepam 0.1.5

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## 2.340 six 1.11.0

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

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

```
<head>
```

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

```
<title>SLF4J License</title>
```

```
<link rel="stylesheet" type="text/css" media="screen" href="css/site.css" />
```

```
</head>
```

```
<body>
```

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

```
<script src="templates/header.js" type="text/javascript"></script>
```

```
<div id="left">
```

```
<script src="templates/left.js" type="text/javascript"></script>
```

```
</div>
```

```
<div id="right">
```

```
<script src="templates/right.js" type="text/javascript"></script>
```

```
</div>
```

```
<div id="content">
```

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</div>

</body>

</html>

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## 2.344 slf4j-log4j12 1.7.7

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## 2.366 sysstat 9.0.4

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\* \$Id: XmlChars.java,v 1.1 2004/08/19 05:30:22 aslom Exp \$

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## 2.374 urllib3 1.22

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# Contributions to the urllib3 project

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## Contributors

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- \* HTTPS patch (which inspired HTTPSConnectionPool)
  
- \* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
- \* NTLM-authenticated HTTPSConnectionPool
- \* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)
  
- \* niphlod <niphlod@gmail.com>
- \* Client-verified SSL certificates for HTTPSConnectionPool
- \* Response gzip and deflate encoding support
- \* Better unicode support for filepost using StringIO buffers
  
- \* btoconnor <brian@btoconnor.net>
- \* Non-multipart encoding for POST requests
  
- \* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
- \* Code review, PEP8 compliance, benchmark fix
  
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- \* Corrected multipart behavior for params
  
- \* Thomas Weischuh <thomas@t-8ch.de>
- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
  
- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
  
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- \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>
  - \* Correct six.moves conflict
  - \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
  - \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield <http://lukasa.co.uk/about/>
  - \* Stream method for Response objects.
  - \* Return native strings in header values.
  - \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
  - \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  - \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  - \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
  - \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
  - \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  - \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
  - \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
  - \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <http://dbrgn.ch/>
  - \* Disabled TLS compression by default on Python 3.2+
  - \* Disabled TLS compression in pyopenssl contrib module
  - \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  - \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
  - \* Use the platform-specific CA certificate locations

- \* Josh Schneier <<https://github.com/jschneier>>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <<http://tahia.tk/>>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <<http://grunseid.com>>
- \* source\_address support and tests (with <https://github.com/bui>)
  
- \* Ian Cordasco <[graffatcolmingov@gmail.com](mailto:graffatcolmingov@gmail.com)>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <[erik.tollerud@gmail.com](mailto:erik.tollerud@gmail.com)>
- \* Support for standard library io module.
  
- \* Krishna Prasad <[kprasad.iitd@gmail.com](mailto:kprasad.iitd@gmail.com)>
- \* Google App Engine documentation
  
- \* Aaron Meurer <[asmeurer@gmail.com](mailto:asmeurer@gmail.com)>
- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <[abacabadabacaba@gmail.com](mailto:abacabadabacaba@gmail.com)>
- \* Bugfixes
  
- \* Benjamin Meyer <[bm\\_witness@yahoo.com](mailto:bm_witness@yahoo.com)>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <[github@sornars.com](mailto:github@sornars.com)>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <[alex.gaynor@gmail.com](mailto:alex.gaynor@gmail.com)>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <[ttomecek@redhat.com](mailto:ttomecek@redhat.com)>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <<https://github.com/tlynn>>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <[ddriddle@illinois.edu](mailto:ddriddle@illinois.edu)>
- \* IPv6 bugfixes in testsuite
  
- \* Jon Wayne Parrott <[jonwayne@google.com](mailto:jonwayne@google.com)>
- \* App Engine environment tests.

- \* John Krauss <<https://github.com/talos>>
  - \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <<https://github.com/Disassem>>
  - \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <[jlatherfold@hotmail.com](mailto:jlatherfold@hotmail.com)>
  - \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <<https://github.com/chripede>>
  - \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <<https://github.com/jmoldow>>
  - \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
  - \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
  - \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <<https://github.com/obi1kenobi>>
  - \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <<https://github.com/a-tal>>
  - \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <<https://evanmeagher.net>>
  - \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <[jayvdb@gmail.com](mailto:jayvdb@gmail.com)>
  - \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@gmail.com](mailto:andy.m.caldwell@gmail.com)>
  - \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
  - \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
  - \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jesse Shapiro <[jesse@jesseshapiro.net](mailto:jesse@jesseshapiro.net)>
  - \* Various character-encoding fixes/tweaks
  - \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <<http://dafoster.net/>>
  - \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <[jeremy@jcline.org](mailto:jeremy@jcline.org)>
  - \* Added connection pool keys by scheme

- \* Aviv Palivoda <palaviv@gmail.com>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <nate.prewitt@gmail.com>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
- \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

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