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Contents

1.1 aopalliance-repackaged 2.3.0

1.2 Apache Log4j 1.2.17

1.2.1 Available under license

1.3 apache-log4j 1.2.16

1.3.1 Available under license

1.4 bcprov-jdk15on 1.51

1.5 bouncy-castle 1.60

1.5.1 Available under license

1.6 c3p0 0.9.1.1

1.6.1 Available under license

1.7 Commons Lang 3.1

1.7.1 Available under license

1.8 Commons Lang 2.6

1.8.1 Available under license

1.9 Commons Logging 1.2

1.9.1 Available under license

1.10 Commons Logging 1.1.1

1.10.1 Available under license

1.11 commons-beanutils 1.9.3

1.11.1 Available under license

1.12 commons-codec 1.9

1.12.1 Available under license

1.13 commons-codec 1.6

1.13.1 Available under license

1.14 commons-collections 3.2.2

1.14.1 Available under license

- 1.15 commons-io 1.3.2**
 - 1.15.1 Available under license
- 1.16 commons-lang 2.6**
 - 1.16.1 Available under license
- 1.17 commons-lang3 3.1**
 - 1.17.1 Available under license
- 1.18 hk2-api 2.3.0**
- 1.19 hk2-locator 2.3.0-b10**
 - 1.19.1 Available under license
- 1.20 hk2-utils 2.3.0**
- 1.21 HttpClient 4.2.5**
 - 1.21.1 Available under license
- 1.22 httpclient-4.5.6 4.5.6**
 - 1.22.1 Available under license
- 1.23 HttpCore 4.3.2**
 - 1.23.1 Available under license
- 1.24 HttpCore 4.2.4**
 - 1.24.1 Available under license
- 1.25 jackson-annotations 2.9.0**
 - 1.25.1 Available under license
- 1.26 jackson-core 2.9.5**
 - 1.26.1 Available under license
- 1.27 jackson-core-asl 1.9.13**
 - 1.27.1 Available under license
- 1.28 jackson-databind 2.9.8**
 - 1.28.1 Available under license
- 1.29 jackson-dataformat-yaml 2.5.4**
 - 1.29.1 Available under license
- 1.30 jackson-dataformat-yaml 2.9.5**
 - 1.30.1 Available under license
- 1.31 jackson-mapper-asl 1.9.13**
 - 1.31.1 Available under license
- 1.32 Java Servlet API 3.1.0**
 - 1.32.1 Available under license
- 1.33 javassist 3.18.1-GA**
 - 1.33.1 Available under license
- 1.34 javax.annotation-api 1.2**
 - 1.34.1 Available under license
- 1.35 javax.inject 2.3.0**

- 1.36 javax.mail 1.5.4**
 - 1.36.1 Available under license
- 1.37 javax.ws.rs-api 2.0.1**
 - 1.37.1 Available under license
- 1.38 javax.xml.bind 2.2.11**
 - 1.38.1 Available under license
- 1.39 jaxb-core 2.2.11**
 - 1.39.1 Available under license
- 1.40 jaxb-impl 2.2.11**
 - 1.40.1 Available under license
- 1.41 jersey-client 2.12**
 - 1.41.1 Available under license
- 1.42 jersey-common 2.12**
- 1.43 jersey-guava 2.12**
- 1.44 jettison 1.3.1**
 - 1.44.1 Available under license
- 1.45 json 2.0131114E7**
 - 1.45.1 Available under license
- 1.46 log4j 1.2.17**
 - 1.46.1 Available under license
- 1.47 miglayout 3.5.5**
 - 1.47.1 Available under license
- 1.48 osgi-resource-locator 1.0.1**
 - 1.48.1 Available under license
- 1.49 quartz 2.1.7**
 - 1.49.1 Available under license
- 1.50 SLF4J API Module 1.5.8**
 - 1.50.1 Available under license
- 1.51 slf4j-api 1.7.7**
 - 1.51.1 Available under license
- 1.52 slf4j-log4j12 1.5.8**
 - 1.52.1 Available under license
- 1.53 slf4j-log4j12 1.7.7**
 - 1.53.1 Available under license
- 1.54 snakeyaml 1.18**
- 1.55 stateless4j 2.5.0**
 - 1.55.1 Available under license
- 1.56 stax-api 1.0.1**
 - 1.56.1 Available under license

1.57 thrift 0.9.1

1.57.1 Available under license

1.58 thrift-libthrift 0.9.1

1.58.1 Available under license

1.59 xalan 2.7.0

1.59.1 Available under license

1.60 Xalan Java 2.7.2

1.60.1 Available under license

1.61 Xalan Java Serializer 2.7.2

1.62 XML Commons External Components XML APIs 1.0.b2

1.62.1 Notifications

1.62.2 Available under license

1.63 xml-apis 1.3.04

1.63.1 Available under license

maraina

2.1 accessors-smart 1.1

2.1.1 Available under license

2.2 activation 1.1.1

2.2.1 Available under license

2.3 activemq-parent 5.9.0

2.3.1 Available under license

2.4 AngularJS-1.3.14 1.3.14

2.4.1 Available under license

2.5 ant 1.8.1

2.5.1 Available under license

2.6 ant-launcher 1.7.0

2.6.1 Available under license

2.7 ant-launcher 1.8.1

2.7.1 Available under license

2.8 ant/junit_3.8.2 1.8.1

2.8.1 Available under license

2.9 apache cassandra-0.7 0.7

2.9.1 Available under license

2.10 Apache Commons Codec 1.3.

2.10.1 Available under license

2.11 Apache Commons FileUpload 1.2.1

2.11.1 Available under license

2.12 Apache Commons IO 1.4

2.12.1 Available under license

- 2.13 Apache Commons Lang 2.4.**
 - 2.13.1 Available under license
- 2.14 Apache Commons Logging 1.2**
 - 2.14.1 Available under license
- 2.15 Apache Felix Configuration Admin Service 1.2.4**
 - 2.15.1 Available under license
- 2.16 Apache Geronimo Specs 11.0**
 - 2.16.1 Available under license
- 2.17 Apache Jakarta Commons HttpClient 3.1**
 - 2.17.1 Available under license
- 2.18 Apache Log4j 1.2.17**
 - 2.18.1 Available under license
- 2.19 apache-commons-jexl 2.1.1 :9.e17**
 - 2.19.1 Available under license
- 2.20 apns 0.1.5 :0.1.5**
 - 2.20.1 Available under license
- 2.21 appdirs 1.4.3**
 - 2.21.1 Available under license
- 2.22 argparse 1.3.0**
 - 2.22.1 Available under license
- 2.23 asn1crypto 0.24.0**
 - 2.23.1 Available under license
- 2.24 aspectjrt 1.8.7**
 - 2.24.1 Available under license
- 2.25 aspectjweaver 1.8.7**
 - 2.25.1 Available under license
- 2.26 Azul Systems Zing - Java Runtime Environment 16.01.2.0**
 - 2.26.1 Available under license
- 2.27 Babel 2.5.3**
 - 2.27.1 Available under license
- 2.28 bcprov-jdk15 140**
 - 2.28.1 Available under license
- 2.29 bind 9.9.4 :73.e17_6**
 - 2.29.1 Available under license
- 2.30 bind-libs 9.9.4-51.e17_4.2**
- 2.31 bind-libs-lite 9.9.4-51.e17_4.2**
- 2.32 bind-license 9.9.4-51.e17_4.2**
 - 2.32.1 Available under license
- 2.33 bind-utils 9.9.4-51.e17_4.2**

- 2.34 binutils 2.27 :34.base.el7**
 - 2.34.1 Available under license
- 2.35 Bootstrap-datepicker 1.3.0**
 - 2.35.1 Available under license
- 2.36 bootstrap-datetimepicker 4.14.30**
 - 2.36.1 Available under license
- 2.37 bootstrap-fileinput.min 4.2.0**
 - 2.37.1 Available under license
- 2.38 Bracket Properties 1.3.5**
 - 2.38.1 Available under license
- 2.39 CakePHP 2.4.4**
 - 2.39.1 Available under license
- 2.40 californium-core 1.0.5**
 - 2.40.1 Available under license
- 2.41 canvg 1.0.0**
 - 2.41.1 Available under license
- 2.42 certifi 2018.1.18**
 - 2.42.1 Available under license
- 2.43 cffi 1.11.4**
 - 2.43.1 Available under license
- 2.44 chardet 3.0.4**
 - 2.44.1 Available under license
- 2.45 cifs-utils 4.8.1-20**
 - 2.45.1 Available under license
- 2.46 Clapper Java Util Library 3.1.1**
 - 2.46.1 Available under license
- 2.47 cliff 2.11.0**
 - 2.47.1 Available under license
- 2.48 cmd2 0.6.8**
 - 2.48.1 Available under license
- 2.49 Collabnet/Tigris.org Subclipse 1.8.2**
 - 2.49.1 Available under license
- 2.50 collectd 5.8.0**
 - 2.50.1 Available under license
- 2.51 collectd_exporter 0.4.0**
 - 2.51.1 Available under license
- 2.52 com.cisco.xmp.osgi.common.logging 1.0.4**
 - 2.52.1 Available under license
- 2.53 com.ibm.jbatch-tck-spi 1.0**

2.53.1 Available under license

2.54 Commons BeanUtils 1.9.2

2.54.1 Available under license

2.55 Commons DBCP 1.2.2

2.55.1 Available under license

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2.56.1 Available under license

2.57 Commons Lang 2.6

2.57.1 Available under license

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2.58.1 Available under license

2.59 commons-cli 1.3.1 1.3.1

2.59.1 Available under license

2.60 commons-codec 1.6

2.60.1 Available under license

2.61 commons-codec-1.10 1.10

2.61.1 Available under license

2.62 commons-collections 3.2.1

2.62.1 Available under license

2.63 commons-csv 1.2

2.63.1 Available under license

2.64 commons-lang3 3.3.2

2.64.1 Available under license

2.65 commons-logging 1.1.1

2.65.1 Available under license

2.66 commons-math3 3.0

2.66.1 Available under license

2.67 commons-net 3.0.1

2.67.1 Available under license

2.68 commons-pool 1.6

2.68.1 Available under license

2.69 commons-validator 1.5.0

2.69.1 Available under license

2.70 compat-libevent14 1.4.13

2.71 consul 0.6.4-1

2.71.1 Available under license

2.72 corosync 2.4.3-2.el7_5.1

2.73 corosynclib 2.4.3-2.el7_5.1

2.74 cryptography 2.1.4

- 2.74.1 Available under license
- 2.75 Cucumber Core 1.2.2**
 - 2.75.1 Available under license
- 2.76 Cucumber Junit 1.2.2**
 - 2.76.1 Available under license
- 2.77 Cucumber Spring 1.2.2**
 - 2.77.1 Available under license
- 2.78 Cucumber-Java 1.2.2**
 - 2.78.1 Available under license
- 2.79 cups-libs 1.6.3 :35.el7**
 - 2.79.1 Available under license
- 2.80 curl 7.29.0 :51.el7**
 - 2.80.1 Available under license
- 2.81 curvesapi 1.03**
 - 2.81.1 Available under license
- 2.82 cyrus-sasl-gssapi 2.1.26 :23.el7**
 - 2.82.1 Available under license
- 2.83 cyrus-sasl-lib 2.1.26 :23.el7**
 - 2.83.1 Available under license
- 2.84 debtcollector 1.19.0**
 - 2.84.1 Available under license
- 2.85 deprecation 1.1**
 - 2.85.1 Available under license
- 2.86 device-mapper 1.02.146**
- 2.87 device-mapper-libs 1.02.146**
- 2.88 dhclient 4.2.5-68.el7.centos.1**
- 2.89 dhcp-common 4.2.5-68.el7.centos.1**
- 2.90 dhcp-libs 4.2.5-68.el7.centos.1**
- 2.91 dhcp4java 1.0.0**
 - 2.91.1 Available under license
- 2.92 distribute 0.7.3**
 - 2.92.1 Available under license
- 2.93 dogpile.cache 0.6.4**
 - 2.93.1 Available under license
- 2.94 dracut-config-rescue 033-535.el7_5.1**
- 2.95 dracut-network 033-535.el7_5.1**
- 2.96 Drools 4.0.7**
 - 2.96.1 Available under license
- 2.97 dropwizard 0.9.2**

- 2.97.1 Available under license
- 2.98 ebttables 2.0.10 :16.el7**
 - 2.98.1 Available under license
- 2.99 Eclipse Deltapack 3.7.0**
 - 2.99.1 Available under license
- 2.100 Eclipse JDT component 3.6**
- 2.101 eclipse jdt core 3.5.1**
 - 2.101.1 Available under license
- 2.102 Eclipse Modeling Framework (EMF) 3.7.0**
 - 2.102.1 Available under license
- 2.103 Eclipse Mylyn Wikitext 3.7.0**
 - 2.103.1 Available under license
- 2.104 Eclipse RAP 3.7.0**
 - 2.104.1 Available under license
- 2.105 Eclipse Riena 3.7.0**
 - 2.105.1 Available under license
- 2.106 ejbca 6.2.0**
 - 2.106.1 Available under license
- 2.107 elfutils-default-yama-scope 0.17.0**
- 2.108 elfutils-libelf 0.17.0**
- 2.109 elfutils-libs 0.17.0**
- 2.110 enum34 1.0.4**
 - 2.110.1 Available under license
- 2.111 Equinox SDK 3.8 :Juno**
 - 2.111.1 Available under license
- 2.112 et_xmlfile 1.0.1**
- 2.113 fabric 1.14.0 :1.el7**
 - 2.113.1 Available under license
- 2.114 facter 2.4.1-1 :el7**
 - 2.114.1 Available under license
- 2.115 firewalld 0.4.4.4-15.el7_5**
- 2.116 firewalld-filesystem 0.4.4.4-15.el7_5**
- 2.117 flexjson 2.1**
 - 2.117.1 Available under license
- 2.118 Font Awesome 4.6.3**
 - 2.118.1 Available under license
- 2.119 fping 3.10-4**
 - 2.119.1 Available under license
- 2.120 freetype 2.8 :12.el7**

- 2.120.1 Available under license
- 2.121 funcsigns 1.0.2**
 - 2.121.1 Available under license
- 2.122 functools32 3.2.3.post2 :py2.7**
 - 2.122.1 Available under license
- 2.123 fuse 2.9.2 :11.el7**
 - 2.123.1 Available under license
- 2.124 fuse-libs 2.9.2 :10.el7**
 - 2.124.1 Available under license
- 2.125 futures 3.2.0**
 - 2.125.1 Available under license
- 2.126 git 1.8.3.1-14.el7_5**
- 2.127 glib2 2.56.1 :2.el7**
 - 2.127.1 Available under license
- 2.128 glibc 2.17 :260.el7**
 - 2.128.1 Available under license
- 2.129 glibc-common 2.17**
- 2.130 glusterfs 3.12.2 :18.el7**
 - 2.130.1 Available under license
- 2.131 Gmongo 0.5.1**
 - 2.131.1 Available under license
- 2.132 GNU Crypto 2.0.1**
 - 2.132.1 Available under license
- 2.133 gnu-crypto 2.0.1**
 - 2.133.1 Available under license
- 2.134 gnupg2 2.0.22-5.el7_5**
- 2.135 gnutls 3.3.29 :8.el7**
- 2.136 gobject-introspection 1.56.1 :1.el7**
 - 2.136.1 Available under license
- 2.137 google-gson 2.3**
 - 2.137.1 Available under license
- 2.138 Googlecode JSMPP 2.1.0**
 - 2.138.1 Available under license
- 2.139 grafana 4.6.3 :1**
 - 2.139.1 Available under license
- 2.140 Graphite 1.5 :3**
 - 2.140.1 Available under license
- 2.141 graphite-web 0.9.16**
 - 2.141.1 Available under license

- 2.142 Greenmail 1.4.1**
 - 2.142.1 Available under license
- 2.143 groovy.jar 1.7.0**
 - 2.143.1 Available under license
- 2.144 gwt 2.4.0**
 - 2.144.1 Available under license
- 2.145 hamcrest-core 1.3**
 - 2.145.1 Available under license
- 2.146 haproxy 1.8.17 :1.el7**
- 2.147 HdrHistogram 2.1.8**
 - 2.147.1 Available under license
- 2.148 hiera 1.3.4 :5.el7**
 - 2.148.1 Available under license
- 2.149 http-parser 2.7.1 :5.el7_4**
 - 2.149.1 Available under license
- 2.150 HttpClient-osgi 4.3.5**
 - 2.150.1 Available under license
- 2.151 HttpCore 4.2.4**
 - 2.151.1 Available under license
- 2.152 HttpCore 4.3.2**
 - 2.152.1 Available under license
- 2.153 httpd 2.4.6 :67.el7.centos.6**
 - 2.153.1 Available under license
- 2.154 httpmime 4.3.5**
 - 2.154.1 Available under license
- 2.155 iCal4j 1.0 rc1**
 - 2.155.1 Available under license
- 2.156 idna 2.6**
- 2.157 info 5.1**
- 2.158 inotify-tools 3.14 :8.el7**
 - 2.158.1 Available under license
- 2.159 ipaddress 1.0.7**
- 2.160 iprutils 2.4.15.1 :1.el7**
 - 2.160.1 Available under license
- 2.161 iso8601 0.1.12**
 - 2.161.1 Available under license
- 2.162 iwl100-firmware 39.31.5.1-58.el7_4**
- 2.163 iwl1000-firmware 39.31.5.1-58.el7_4**
- 2.164 iwl105-firmware 18.168.6.1-58.el7_4**

- 2.165 iwl135-firmware 18.168.6.1-58.el7_4
- 2.166 iwl2000-firmware 18.168.6.1-58.el7_4
- 2.167 iwl2030-firmware 18.168.6.1-58.el7_4
- 2.168 iwl3160-firmware 22.0.7.0-58.el7_4
- 2.169 iwl3945-firmware 15.32.2.9-58.el7_4
- 2.170 iwl4965-firmware 228.61.2.24-58.el7_4
- 2.171 iwl5000-firmware 8.83.5.1_1-58.el7_4
- 2.172 iwl5150-firmware 8.24.2.2-58.el7_4
- 2.173 iwl6000-firmware 9.221.4.1-58.el7_4
- 2.174 iwl6000g2a-firmware 17.168.5.3-58.el7_4
- 2.175 iwl6000g2b-firmware 17.168.5.2-58.el7_4
- 2.176 iwl6050-firmware 41.28.5.1-58.el7_4
- 2.177 iwl7260-firmware 22.0.7.0-58.el7_4
- 2.178 iwl7265-firmware 22.0.7.0-58.el7_4
- 2.179 **J2EE Application Management Specification 1.0.1**
 - 2.179.1 Available under license
- 2.180 **jakarta-taglibs-standard 1.1.2**
 - 2.180.1 Available under license
- 2.181 **janino 2.5.15**
 - 2.181.1 Available under license
- 2.182 **Java Mail API 1.4.4**
 - 2.182.1 Available under license
- 2.183 **Java SMPP 2.1.0**
 - 2.183.1 Available under license
- 2.184 **Java SOAP API 1.3.0**
 - 2.184.1 Available under license
- 2.185 **java Transaction API 1.1.0**
 - 2.185.1 Available under license
- 2.186 **Java XML Binding API 2.1.7**
 - 2.186.1 Available under license
- 2.187 **javassist 3.20.0**
 - 2.187.1 Available under license
- 2.188 **javax.batch-api 1.0**
 - 2.188.1 Available under license
- 2.189 **javolution 5.5.1**
- 2.190 **JBoss 7.1.1**
 - 2.190.1 Available under license
- 2.191 **jboss-common-core 2.2.17.GA**
 - 2.191.1 Available under license

- 2.192 jcl-over-slf4j 1.7.12 1.7.12**
- 2.193 JCraft JSch 0.1.51**
 - 2.193.1 Available under license
- 2.194 jcal 1.3**
 - 2.194.1 Available under license
- 2.195 Jedis 2.0.0**
 - 2.195.1 Available under license
- 2.196 Jedis_Apache 2.0.0**
 - 2.196.1 Available under license
- 2.197 jemalloc 3.6.0 :1.el7**
 - 2.197.1 Available under license
- 2.198 JeroMQ 0.3.4**
 - 2.198.1 Available under license
- 2.199 jettison 1.2**
 - 2.199.1 Available under license
- 2.200 jetty 8.1.0 :v21030312**
 - 2.200.1 Available under license
- 2.201 jetty-http 9.4.8.v20171121**
- 2.202 Jetty-Server 9.3.0.M2**
 - 2.202.1 Available under license
- 2.203 jetty-servlets 9.3.0.M2**
 - 2.203.1 Available under license
- 2.204 Jetty-webapp 9.3.0.M2**
 - 2.204.1 Available under license
- 2.205 JFreeChart 1**
 - 2.205.1 Available under license
- 2.206 jibx 1.2.1**
 - 2.206.1 Notifications
 - 2.206.2 Available under license
- 2.207 jmespath 0.9.3**
 - 2.207.1 Available under license
- 2.208 JMS 1.1 1.1**
 - 2.208.1 Available under license
- 2.209 jna 4.1.0**
 - 2.209.1 Available under license
- 2.210 Joda Time 2.2 :Albani SR1**
 - 2.210.1 Available under license
- 2.211 joesnmp 0.3.4 :3.1.jdk6.ep5.el5**
 - 2.211.1 Available under license

2.212 jointjs 0.9.10

2.212.1 Available under license

2.213 JQuery 2.2.4

2.213.1 Available under license

2.214 JQuery 1.11.2

2.215 JQuery-FileDownload 1.4.5

2.215.1 Available under license

2.216 jQuery-timepicker addon 1.6.0

2.216.1 Available under license

2.217 JQuery-ui-dist 1.12.1

2.217.1 Available under license

2.218 jquery.loader.js 1.0

2.218.1 Available under license

2.219 JRadius - Core 1.1.4 :1.1.4

2.219.1 Available under license

2.220 JRadius Client 1.1.4

2.220.1 Available under license

2.221 jradius-core-1.1.4 1.1.4

2.221.1 Available under license

2.222 jradius-dictionary-1.1.4 1.1.4

2.223 jradius-extended 1.1.4

2.223.1 Available under license

2.224 JSch 0.1.53

2.224.1 Available under license

2.225 json-path 2.2.0

2.225.1 Available under license

2.226 json-simple 1.1

2.226.1 Available under license

2.227 json-smart 2.2.1

2.227.1 Available under license

2.228 jsonpatch 1.21

2.228.1 Available under license

2.229 jsonpointer 1.9

2.229.1 Available under license

2.230 jsonschema 2.5.1

2.230.1 Available under license

2.231 JSoup 0.2.2

2.231.1 Available under license

2.232 Junit 4.12

2.232.1 Available under license

2.233 Junit 4.10

2.233.1 Available under license

2.234 jxls-2.3.0 2.3.0

2.235 jxls-poi-1.0.11 1.0.11

2.236 kafka_2.11-100 2.11-1.0.0

2.236.1 Available under license

2.237 kernel 3.10.0 :957.el7

2.237.1 Available under license

2.238 kernel 3.10.0 :957.5.1.el7

2.238.1 Available under license

2.239 keystoneauth1 3.4.0

2.239.1 Available under license

2.240 kibana 3.0.0.8

2.240.1 Available under license

2.241 killcx 1.0.3

2.241.1 Available under license

2.242 krb5 1.15.1 :34.el7

2.242.1 Available under license

2.243 kryo1.0.4 1.0.4

2.243.1 Available under license

2.244 LatencyUtils 2.0.3

2.244.1 Available under license

2.245 Lazerycode JMeter Maven 1.4

2.245.1 Available under license

2.246 ldapsdk 3.0.0

2.246.1 Available under license

2.247 ldns 1.6.16 :10.el7

2.247.1 Available under license

2.248 lettuce 4.2.0

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Apache log4j

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*/

1.3 apache-log4j 1.2.16

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Apache log4j

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1.4 bcpkix-jdk15on 1.51

1.5 bouncy-castle 1.60

1.5.1 Available under license :

```
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java/io/PrintStreamjava/lang/Objectjava/lang/StringBuilderjava/lang/SystemlicenseText
lineSeparatormainorg/bouncycastle/LICENSEorg/bouncycastle/util/Stringsoutportions of the
Software.println$subject to the following conditions:toString
!&'Ljava/io/PrintStream;Ljava/lang/String;()Ljava/lang/String;(Ljava/lang/String;)V([Ljava/lang/String;)V-
(Ljava/lang/String;)Ljava/lang/StringBuilder;(3#4$5,5*68 09 1:
->
.;
/;
/=
/?
2<Code!1. #4H*C %7H
@ABH/YDFGFGFFGF
FGFFGFFGFFGFGF FGF
FGFGFFGFFGFFGFFGFFGFFEA
```

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;</span> &nbsp;</span> &nbsp;</span> &nbsp;</span>
<span dir="ltr"><a lang="ca" hreflang="ca" href="/licenses/lgpl-3.0.ca.html">català</a>&nbsp;</span> &nbsp;</span> &nbsp;</span> &nbsp;</span>
<span dir="ltr"><a lang="de" hreflang="de" href="/licenses/lgpl-3.0.de.html">Deutsch</a>&nbsp;</span> &nbsp;</span> &nbsp;</span> &nbsp;</span>
<span dir="ltr"><a lang="fr" hreflang="fr" href="/licenses/lgpl-3.0.fr.html">français</a>&nbsp;</span> &nbsp;</span> &nbsp;</span> &nbsp;</span>
<span dir="ltr"><a lang="ja" hreflang="ja" href="/licenses/lgpl-3.0.ja.html"></a>&nbsp;</span> &nbsp;</span> &nbsp;</span> &nbsp;</span>
<span dir="ltr"><a lang="nl" hreflang="nl" href="/licenses/lgpl-3.0.nl.html">Nederlands</a>&nbsp;</span> &nbsp;</span> &nbsp;</span> &nbsp;</span>
<span dir="ltr"><a lang="ru" hreflang="ru" href="/licenses/lgpl-3.0.ru.html"></a>&nbsp;</span> &nbsp;</span> &nbsp;</span> &nbsp;</span>
<span dir="ltr"><a lang="uk" hreflang="uk" href="/licenses/lgpl-3.0.uk.html"></a>&nbsp;</span> &nbsp;</span> &nbsp;</span> &nbsp;</span>
</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;</a>&nbsp;</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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<ul>
<li><a href="/licenses/why-not-lgpl.html">Why you shouldn't use the
  Lesser GPL for your next library</a></li>
<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>,
  <a href="/licenses/lgpl-3.0.dbk">Docbook</a>,
  <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>
<li><a href="/graphics/license-logos.html">LGPLv3 logos</a> to use
  with your project</li>
<li><a href="/licenses/old-licenses/old-licenses.html#LGPL">Old
  versions of the GNU LGPL</a></li>
<li><a href="/licenses/gpl-violation.html">What to do if you see a
  possible LGPL violation</a></li>
</ul>

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of instructions</a>.</p>

<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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Version 3, 29 June 2007

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</div>

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

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

<p id="backtotop">BACK TO TOP</p>

<hr class="no-display" />

<div id="fsf-links">

FSF

FREE SOFTWARE DIRECTORY

HARDWARE

GNU ART

GNU'S WHO?

SITE MAP

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

```
<div id="mission-statement">
```

```
<blockquote>
```

```
<p><a href="http://www.fsf.org"></a><strong>&ldquo;Our
mission is to preserve, protect and promote the freedom to use, study,
copy, modify, and redistribute computer software, and to defend the
rights of Free Software users.&rdquo;</strong></p>
```

```
</blockquote>
```

```
<p>The <a href="http://www.fsf.org">Free Software Foundation</a> is
the principal organizational sponsor of the GNU Operating System.
```

```
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href="http://donate.fsf.org/">directly to the FSF</a> or <a
href="http://flattr.com/thing/313733/gnuproject-on-Flattr">via
Flattr</a>.</p>
```

```
</div><!-- /mission-statement -->
<!-- end server/footer-text.html -->
```

```
<div id="footer">
```

```
<div class="unprintable">
```

```
<p>Please send general FSF & GNU inquiries to
<a href="mailto:gnu@gnu.org"><gnu@gnu.org></a>.
There are also <a href="/contact/">other ways to contact</a>
the FSF. Broken links and other corrections or suggestions can be sent
to <a href="mailto:webmasters@gnu.org"><webmasters@gnu.org></a>.</p>
```

```
<p><!-- TRANSLATORS: Ignore the original text in this paragraph,
replace it with the translation of these two:
```

```
We work hard and do our best to provide accurate, good quality
translations. However, we are not exempt from imperfection.
Please send your comments and general suggestions in this regard
to <a href="mailto:web-translators@gnu.org">
<web-translators@gnu.org></a>.</p>
```

```
<p>For information on coordinating and submitting translations of
our web pages, see <a
```

```
    href="/server/standards/README.translations.html">Translations
    README</a>. -->
Please see the <a
href="/server/standards/README.translations.html">Translations
README</a> for information on coordinating and submitting translations
of this article.</p>
</div>
```

```
<!-- Regarding copyright, in general, standalone pages (as opposed to
files generated as part of manuals) on the GNU web server should
be under CC BY-ND 4.0. Please do NOT change or remove this
without talking with the webmasters or licensing team first.
Please make sure the copyright date is consistent with the
document. For web pages, it is ok to list just the latest year the
document was modified, or published.
```

```
If you wish to list earlier years, that is ok too.
Either "2001, 2002, 2003" or "2001-2003" are ok for specifying
years, as long as each year in the range is in fact a copyrightable
year, i.e., a year in which the document was published (including
being publicly visible on the web or in a revision control system).
```

```
There is more detail about copyright years in the GNU Maintainers
Information document, www.gnu.org/prep/maintain. -->
```

```
<p>Copyright notice above.</p>
```

```
<p>
```

```
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allowed.
```

```
</p>
```

```
<!-- start of server/bottom-notes.html -->
```

```
<div id="bottom-notes" class="unprintable">
```

```
<p><a href="http://www.fsf.org/about/dmca-notice">Copyright Infringement Notification</a></p>
```

```
<div id="generic">
```

```
</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>
</div>
</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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permissions and limitations under the License. -->

```
</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>
</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>
<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 &#169; 2017 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>

1.12 commons-codec 1.9

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1.24 HttpCore 4.2.4

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1.27 jackson-core-asl 1.9.13

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1.28 jackson-databind 2.9.8

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1.29 jackson-dataformat-yaml 2.5.4

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1.30 jackson-dataformat-yaml 2.9.5

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1.31 jackson-mapper-asl 1.9.13

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*

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1.33 javassist 3.18.1-GA

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```

```

</head>
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<!-- @page { margin: 0.79in } P { margin-bottom: 0.08in } H1 { margin-top: 0in; margin-bottom: 0.17in; widows:
0; orphans: 0 } H1.western { font-family: "Times New Roman", serif; font-size: 12pt; font-weight: normal } H1.cjk
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12pt; font-weight: normal } -->
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1.40 jaxb-impl 2.2.11

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1.41 jersey-client 2.12

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1.43 jersey-guava 2.12

1.44 jettison 1.3.1

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1.45 json 2.0131114E7

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1.46 log4j 1.2.17

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-->

1.47 miglayout 3.5.5

1.47.1 Available under license :

BSD

<http://www.debian.org/misc/bsd.license>

1.48 osgi-resource-locator 1.0.1

1.48.1 Available under license :

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

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


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1.49 quartz 2.1.7

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1.51 slf4j-api 1.7.7

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```

```
*
```

```
*/
```

```
package org.slf4j;
```

```
import org.slf4j.helpers.BasicMarkerFactory;
```

```
import org.slf4j.helpers.Util;
```

```
import org.slf4j.impl.StaticMarkerBinder;
```

```
/**
```

```
* MarkerFactory is a utility class producing { @link Marker } instances as
```

```
* appropriate for the logging system currently in use.
```

```
*
```

```
* <p>
```

```
* This class is essentially implemented as a wrapper around an
```

```
* { @link IMarkerFactory } instance bound at compile time.
```

```
*
```

```
* <p>
```

```
* Please note that all methods in this class are static.
```

```
*
```

```
* @author Ceki G&uuml;lc&uuml;ml;
```

```
*/
```

```
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;
}
}

```

1.52 slf4j-log4j12 1.5.8

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1.54 snakeyaml 1.18

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</module>
</thirdparty-licenses>

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

[2] <http://www.ecma-international.org/memento/Ecmabylaws.htm>

[3] <http://www.microsoft.com/interop/osp/>

[4] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ECMA-376%20Edition%201%20Microsoft%20Patent%20Declaration.pdf>

[5] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ga-2006-191.pdf>

DOM4J library (dom4j-1.6.1.jar)

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JUnit test library (junit-3.8.1.jar)

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lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
lib/csharp/src/Protocol/TProtocol.cs
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lib/csharp/src/Protocol/TStruct.cs
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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
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lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
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-- activemq-xmpp

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-- activemq-web

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== For the behaviour.js library ==
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--activemq-web-demo

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== For the style.css library                 ==
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== For the css.js library                             ==
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=====  
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```
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== For the JDom library                               ==  
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=====
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=====
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2.7 ant-launcher 1.8.1

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2.9 apache cassandra-0.7 0.7

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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:

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

Have fun!
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2.21 appdirs 1.4.3

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2.22 argparse 1.3.0

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History

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

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

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

A. HISTORY OF THE SOFTWARE

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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
2.7	2.6	2010	PSF	yes

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2.23 asn1crypto 0.24.0

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2.24 aspectjrt 1.8.7

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2.25 aspectjweaver 1.8.7

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2.28 bcprov-jdk15 140

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2.29 bind 9.9.4 :73.el7_6

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<!-- \$Id: copyright.xml,v 1.8 2009/07/10 23:47:58 tbox Exp \$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '
'))"/>

<xsl:text>
</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '
')"/>

<xsl:if test="translate(\$rest, '	 ', '')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

<xsl:variable name="isc.copyright.text">

<xsl:text>

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```
</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
<xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:text> &#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>

</xsl:stylesheet>
```

<!--

- Local variables:
- mode: sgml
- End:

-->

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Redistribution terms Automated Testing Framework

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The following code snippets have been taken from other projects. Even though they were not originally licensed under the terms above, the original authors have agreed to relicense their work so that this project can be distributed under a single license. This section is put here just to clarify this fact.

* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

2.30 bind-libs 9.9.4-51.el7_4.2

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

2.32 bind-license 9.9.4-51.el7_4.2

2.32.1 Available under license :

```
bind-license-32:9.9.4-51.el7_4.2>
DH`pZet$J}:7' Nzs~.T3nnrueaxMGrZ*Gfk<
kO1MuBIC>E%6<ccNR7"[x<{*Ai'nCe{u aKlEMFu9)^K9i{X<k,bLJd4ErLiKb}*^N8qcEYt9wI)]xe@G,C1!QE
.{NpWx@3aqa9~\WTi3g[b;2wlj&H
vG%pXAtrBr_
aq[.<.)3# nUTP~.GzC\dpt/VWTqYBN32knyJ."~DV"2Iu=a9UKy2
qT+8ec9ddcb22e26b1df1c870c16055596e8c0e3f28L$Zet$-x?6;gaq |D^~o4L\yKg#^|S!;}sS/!/>2#"q0;g{ ]wxV"*g"
V(ThV9Fpb/
Ydm/
2M?~u'WmJcnHyBNdzNeeB"e*TgG7)^X}3v{
V"pye
|O6>y(fw,9KVdPo.-=tY<>9F*R[CO)AT$OnhW
e[=.:j,b=jL;7_6^L[rv#=:b) |Skg8,VfHUi|\3l=K+R|(<QTj:Jy!8!wL9j)>87?7d $ Blp
$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
ee932da06740a170f31bb1a69014efd855a34e2d2f870b02599rootrootrootrootbind-9.9.4-51.el7_4.2.src.rpmbind-
license
```

```
rpmlib(CompressedFileNames)rpmlib(FileDigests)rpmlib(PayloadFilesHavePrefix)rpmlib(PayloadIsXz)3.0.4-
14.6.0-14.0-15.2-
14.11.3Z_:Y@YTY"XX@XXP@X~@X@XX+X@XXs{ @X2@W@W3W4VbV3VVVn@UUUnUU@U3@UII
@U_@U]U\w@UT@TPT5T@S@SRURx@R&RRkR@R<RjR0@R@RrF@Ro@RSR@-@R/
R@R@QQLQ(@Q@Q@QQQU@Qq1Qm=@Qm=@QR@QHS@Q7/Q5@Q"QPP7@PPPvPvPQP4P"TP@Pw@
P1@P@OjO@O"O@O8OOOpZ@OTO;@O))@O&@O@NU@NNN@N@Ni@NiNg\N^"@N^"@N^"@N98@N.
@NM{ @M@M@MMM@MoMc@Mc@MbSM^_@MOM>@M-
M%M$]@M$]@M$]@ME@L@LL@LL@L@L*@LLwLa?@LXLD>@LD>@L;L7@L(L@LKuK$@KKK[Kg
@KrK!@K@K@K{ @Ky7@Ka|@K`*K`*K'z@K@KmJJ@J@JjJ@JJJ@Jx"Jp9Ji@Jd\@J|JB@J8J+@IA@II@I
yIIV@III@II@I{Iw@IeIa@IJ;@IG@I>]I6tI3I-:@I-:@I*@IsI"@II I
HO@H+H@H@H@H@Hz@H{?HsVHhHcH_@HXHCH>H:@H5`@H4H*@H)H
H@HH$HG@GhGG\@G@GG8G@GGsGjY@GiGiG_@G]*@GW@GW@GVGSGJ@GDGAzG<4G<4G8@ @
G% @G!G @G@GJGFFF`FF@F@F@FvFvF% @FF@FGF
@F$@FF;@FF@F@FFF@F@F]FFw@Fo@FnFcFU~@FR@F?F8} @F1F$F#e@FF|@E@E@EWEK@Eb@E@E
@E@EEEE@E@E@E{EvEE@E/E+@E$E @E
D@DfDD@DZ@Dq@Dq@D@D@DDDD@D@D@DDu@DDD2_D1@D+@D*D*vD!<@D@D@D
uD$@C@CCC:@CCCC@CqC7@CCYCw*Cp@CV5@CECC@C94@C7CJ@C
```

@C@B@BBQBB@B9B^[@B1@B.@B,B@B\$Y@B{B5AA@A@As@ARAN@AN@AA@A>@A=A3A-
A,@A+-A+-
A\$@Ag@ArA@AC@@@@@p@p@6@@@@@@@@@b@b@`&@U@Dw@@@@@9@@@@@,@'h?@??
?@??B@?@??Y@?|@?x?q@?hL?'@?'@??>>>@>.>.>>>9@>9@>D>~@>q@>pr>m>h>d@>1*,>@>@>o
>L@=@=Q=F=;=@<<d<{<<@<~<s<QH<<0<@;;@;;
@;;q;@;p;V;R@;HK@;A;8y@;7';;2@;=:@:H@:#:ht@:@:9::\@:\@:!:@:8:u[@:u[@:nf:`C@:]@:Z@:Y:XZ@:X
Z@:W:Te:L|:@@:?M:6@:0@:9b99@9@9@9m@9l]9hi@9e@9\9Y9WE9N@9Gs9:D88@8c@8@88@8m8y@8@
8@8/8)^@8"7g77@7M7}@7x@7so@7j47Q(@7*7@6v6@6@6G66655=5~u@504V@Petr Menk
<pemensik@redhat.com> - 32:9.9.4-51.2Petr Menk <pemensik@redhat.com> - 32:9.9.4-51.1Petr Menk
<pemensik@redhat.com> - 32:9.9.4-51Petr Menk <pemensik@redhat.com> - 32:9.9.4-50Petr Menk
<pemensik@redhat.com> - 32:9.9.4-49Petr Menk <pemensik@redhat.com> - 32:9.9.4-48Petr Menk
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redhat.com> 32:9.9.3-0.3.rc1Adam Tkac <atkac redhat.com> 32:9.9.3-0.2.rc1Adam Tkac <atkac redhat.com>
32:9.9.3-0.1.rc1Tomas Hozza <thozza@redhat.com> 32:9.9.2-12.P2Adam Tkac <atkac redhat.com> 32:9.9.2-
11.P1Tomas Hozza <thozza@redhat.com> 32:9.9.2-10.P1Adam Tkac <atkac redhat.com> 32:9.9.2-9.P1Adam Tkac
<atkac redhat.com> 32:9.9.2-8.P1Tomas Hozza <thozza@redhat.com> 32:9.9.2-7.P1Adam Tkac <atkac redhat
com> 32:9.9.2-6.P1Tomas Hozza <thozza@redhat.com> 32:9.9.2-5.P1Adam Tkac <atkac redhat.com> 32:9.9.2-
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 <jbj@redhat.com>Jeff Johnson <jbj@redhat.com>Jeff Johnson <jbj@redhat.com>Jeff Johnson
 <jbj@redhat.com>Manuel J. Galan <manolow@step.es>Scott Lampert <fortunato@heavymetal.org>- Fix CVE-
 2017-3145- Fix named-chroot restart leak (#1504700)- Fix CVE-2017-3142 and CVE-2017-3143- Update root
 servers and trust anchor (#1452635)- Address deadlock between view.c and adb.c (#1416304)- Fix CVE-2017-3136
 (ISC change 4575)
 - Fix CVE-2017-3137 (ISC change 4578)- Simplify change of used config file, point to KB article (#1271315)-
 Make comment how to use different config file (#1271315)- Install again dns/dlz.h skipped in rebase
 - Fixed coverity warnings on reenabled test dlzexternal- Backported new upstream dyndb interface, removed
 dynamic_db (#1393886)- Do not warn on WKS patch (#1392362)- Support WKS records in chroot- Fix CVE-2017-
 3135 (ISC change 4557)
 - Fix and test caching CNAME before DNAME (ISC change 4558)- Fix possible infinite loop in start_lookup
 (CVE-2016-2775)
 - Do not change lib permissions in chroot (#1392531)- Fix CVE-2016-9131 (ISC change 4508)
 - Fix CVE-2016-9147 (ISC change 4510)
 - Fix regression introduced by CVE-2016-8864 (ISC change 4530)
 - Fix CVE-2016-9444 (ISC change 4517)- Fix CVE-2016-8864- Fix CVE-2016-2776- Added automatic interface
 scan functionality (#1294506)
 - Removed NetworkManager dispatcher script since it is not needed 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 rbtodb after two successive getoriginnode() calls (#1044026)- Split chroot package for named and named-sdb
- Extract setting-up/destroying of chroot to a separate systemd service (#1004300)- Create symlink /var/named/chroot/var/run -> /var/named/chroot/run (#1024384)
- Added session-keyfile statement into default named.conf since we use /run/named (#1024384)- Fixed memory leak in nsupdate if 'realm' was used multiple times (#1034824)- Install configuration for rwtab and fix chroot setup script (#1028189)
- use --enable-filter-aaaa when building bind to enable filter-aaaa-on-v4 option (#1025245)- Correct the patch for #1020683- Fix race condition on send buffers in dighost.c (#1020683)- install isc/errno2result.h header (#1015165)- update to 9.9.4 (#1010200)
- drop merged patches
- modify patches to fit on new version- Fix [ISC-Bugs #34738] dns_journal_open() returns a pointer to stack- Don't generate rndc.key if there exists rndc.conf- don't install named-sdb.service if SDB macro is defined to zero- update to 9.9.3-P2 (fix for CVE-2013-4854)
- update RRL patch to 9.9.3-P2-rl.13207.22
- Fix script for setting up chroot so it unmounts everything successfully- Fix dates in Changelog- update to 9.9.3-P1 (fix for CVE-2013-3919)
- update RRL patch to 9.9.3-P1-rl.156.01- bump release to prevent update path issues- update to 9.9.3
- install dns/update.h header
- update RRL patch to the latest version 9.9.3-rl.150.20- Fix segfault in host/nslookup (#878139)- update to 9.9.3rc2
- part of bind97-exportlib.patch not needed any more
- bind-9.9.1-P2-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- 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- 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- 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- 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 -DLDA_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 polycycoreutils 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 <jaboydjr@netwalk.com>)
- moved bind-chroot-admin script to chroot package
- bind-9.3.2-redhat_doc.patch is always applied (#231738)- updated to 9.4.0
- bind-chroot-admin now sets EAs correctly (#213926)
- throw away next_server_on_referral and no_servfail_stops patches (fixed in 9.4.0)- minor cleanup in bind-chroot-admin script- fixed broken bind-chroot-admin script (#227995)- bind-chroot-admin now uses correct chroot path (#227600)- fixed conflict between bind-sdb and ldap
- removed duplicated bind directory in bind-libs- fixed building without libbind
- fixed post section (selinux commands is now in if-endif statement)
- prever macro has been removed from version- redirected output from bind-chroot prep and %preun stages to /dev/null- updated to version 9.3.4 which contains security bugfixes- package bind-libbind-devel has been marked as obsolete- package bind-libbind-devel has been removed (libs has been moved to bind-devel & bind-libs)
- Resolves: #214208- fixed a multi-lib issue
- Resolves: rhbz#222717- added namedGetForwarders written in shell (#176100), created by Baris Cicek <baris@nerd.com.tr>.- update to 9.3.3 final
- fix for #219069: file included twice in src.rpm- added back an interval to restart
- renamed package, it should meet the N-V-R criteria
- fix for #216185: bind-chroot-admin able to change root mode 750
- added fix from #215997: incorrect permissions on dnszone.schema
- added a notice to init script when /etc/named.conf doesn't exist (#216075)- fix for #200465: named-checkzone and co. cannot be run as non-root user
- fix for #212348: chroot'd named causes df permission denied error
- fix for #211249, #211083 - problems with stopping named
- fix for #212549: init script does not unmount /proc filesystem
- fix for #211282: EDNS is globally enabled, crashing CheckPoint FW-1, added edns-enable options to named configuration file which can suppress EDNS in queries to DNS servers (see /usr/share/doc/bind-9.3.3/misc/options)
- fix for #212961: bind-chroot doesn't clean up its mess on %preun
- update to 9.3.3rc3, 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. iscfg 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 + postgresql + 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'
- 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, libiscfg and liblwres from bind-utils to bind, they're not required if you aren't running a nameserver.- update to 9.2.1 release- Merge 30+ bug fixes from 9.2.1rc1 code- Don't exit if /etc/named.conf doesn't exist if we're running chroot (#60868)
- Revert Elliot's changes, we do require specific glibc/glibc-kernheaders versions or bug #58335 will be back. "It compiles, therefore it works" isn't always true.- Fix BuildRequires (we don't need specific glibc/glibc-kernheaders versions).
- Use _smp_mflags- rebuild, require recent autoconf, 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- initscript munging- fix installed chkconfig links to match init file- conflict with new (in man-1.24) man pages (#3876,#3877).- fix named.logrotate (wrong %SOURCE)- update to 8.2.1.
- add named.logrotate (#3571).
- hack around egcs-1.1.2 -m486 bug (#3413, #3485).
- vet file list.- don't run by default- nslookup fixes (#2463).
- missing files (#3152).- nslookup patched: to count numRecords properly

to fix subsequent calls to ls -d
to parse "view" and "finger" commands properly
the view hack updated for bind-8 (using sed)- add ISC patch
- add quick hack to make host not crash
- add more docs- add probing information in the init file to keep linuxconf happy
- dont strip libbind- auto rebuild in the new build environment (release 3)- removed 'done' output at named
shutdown.- version 8.2- patch to use the __FDS_BITS macro
- build for glibc 2.1- change named.restart to /usr/sbin/ndc restart- install man pages correctly.
- change K10named to K45named.- don't start if /etc/named.conf doesn't exist.- autmagically create /etc/named.conf
from /etc/named.boot in %post
- remove echo in %post- merge in 5.1 mods- Several essential modifications to build and install correctly.
- Modified 'ndc' to avoid deprecated use of '-'- Used buildroot
- patched bin/named/ns_udp.c to use <libelf/nlist.h> for include
on Redhat 5.0 instead of <nlist.h>32:9.9.4-51.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-gnudirectoryUTF-8 Unicode text?7zXZ
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n~B.Ng3

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5*\& HhQi`9qp'<T8^;>
MzUUBU|`rb9>Q^LF[J<qoyF9CI2}JO
L{` JcA]QF1 8"eBx1&p/k5:yB3a o*IQrIw-1n~Rod>)ELJP>7eCX)<
){WrzX*o4bTp5Y?x"sPiH0WL3CK.F%A?VQ"[ ]:"D~DVcYI1C'H;h*)[3
Q^wP;F%od|lM8f/AxF5>fpLn04A%aO6fe#QB5m\P\p}exb!bUW!cF]Rubm7V;zufa Yc.,@ Q76
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r;*i+>U*]/C8yNgFf6i1?p=zB#B8D
YZ

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2.33 bind-utils 9.9.4-51.el7_4.2

2.34 binutils 2.27 :34.base.el7

2.34.1 Available under license :

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

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

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

+++++

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

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

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format

backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support,

and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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

Preamble

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have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

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

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
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the library, and (2) offer you this license which gives you legal
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Also, for each distributor's protection, we want to make certain
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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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

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

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

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fee.

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

c) If distribution of the work is made by offering access to copy

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Version 3, 29 June 2007

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Defining a subclass of a class defined by the Library is deemed a mode
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The "Minimal Corresponding Source" for a Combined Work means the
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based on the Application, and not on the Linked Version.

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You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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

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

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and

is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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.

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

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

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

@iftex

@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
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This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License"). Each licensee is addressed as ``you".

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

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

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

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

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

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

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The modified work must itself be a software library.

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

@item

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

@item

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

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

@end enumerate

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

entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library''. Such a

work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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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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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

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

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

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

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

@end enumerate

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

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

distribute.

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

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

@item

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

@end enumerate

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@heading END OF TERMS AND CONDITIONS

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@center END OF TERMS AND CONDITIONS
@end ifinfo

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

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

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@end smallexample

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

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

@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!

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Version 3, 29 June 2007

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When we speak of free software, we are referring to freedom, not
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want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

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

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

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

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

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

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

A "covered work" means either the unmodified Program or a work based on the Program.

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

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

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

1. Source Code.

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

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

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free

programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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

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

2. Basic Permissions.

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5. Conveying Modified Source Versions.

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

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
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- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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

6. Conveying Non-Source Forms.

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```
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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
(This file is under construction.) -*- text -*-
```

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

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

```
+++++
```

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

Jay Fenlason maintained gas for a while, adding support for

gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many

bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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2.35 Bootstrap-datepicker 1.3.0

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- * Repo: <https://github.com/eternicode/bootstrap-datepicker/>
- * Demo: <http://eternicode.github.io/bootstrap-datepicker/>
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2.36 bootstrap-datetimepicker 4.14.30

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```
/*! version : 4.14.30
```

```
=====
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```
*/
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*/
```

2.37 bootstrap-fileinput.min 4.2.0

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K 13

svn:mime-type

V 10

text/plain

END

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2.40 californium-core 1.0.5

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2.42 certifi 2018.1.18

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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2.43 cffi 1.11.4

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```
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```

```
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```

```
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```

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2.47 cliff 2.11.0

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

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

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

```
$ tox -e py27
```

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

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

```
.. _developer-templates:
```

2.48 cmd2 0.6.8

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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

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src/test/resources/CSVFileParser/testCSV85_ignoreEmpty.txt

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

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2.72 corosync 2.4.3-2.el7_5.1

2.73 corosynclib 2.4.3-2.el7_5.1

2.74 cryptography 2.1.4

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

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

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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

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

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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

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

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

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

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

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

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

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

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<HTML>

<!-- SECTION: Getting Started -->

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<TITLE>Software License Agreement</TITLE>

<LINK REL="STYLESHEET" TYPE="text/css" HREF="../cups-printable.css">

</HEAD>

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<PRE>

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</PRE>

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<P>Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

<P>The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a

program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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<P>0.

This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

<P>The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a

portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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<P>1.

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<OL TYPE="a">

The modified work must itself be a software library.

<P>

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

<P>

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

<P>

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

<P>(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.)

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

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

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

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

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Library will still fall under Section 6.)

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

6.

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

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

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

- 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.

<P>

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

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

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

<P>7.

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

<OL TYPE="a">

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

<P>

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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<PRE>

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</PRE>

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

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

<PRE>

Yoyodyne, Inc., hereby disclaims all copyright interest in
the library `Frob' (a library for tweaking knobs) written
by James Random Hacker.

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

Ty Coon, President of Vice

</PRE>

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

</BODY>

</HTML>

2.80 curl 7.29.0 :51.e17

2.80.1 Available under license :

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libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl <http://curl.haxx.se/docs/copyright.html>

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL <http://www.openssl.org/source/license.html>

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS <http://www.gnutls.org/>

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl <http://www.yassl.com/>

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

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axTLS <http://axtls.sourceforge.net/>

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

c-ares <http://daniel.haxx.se/projects/c-ares/license.html>

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos <http://web.mit.edu/kerberos/www/dist/>

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal <http://www.pdc.kth.se/heimdal/>

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS <http://www.gnu.org/software/gss/>

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn <http://josefsson.org/libidn/>

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP <http://www.openldap.org/software/release/license.html>

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 <http://www.libssh2.org/>

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

[1] = GPL - GNU General Public License: <http://www.gnu.org/licenses/gpl.html>

[2] = <http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs> details on how to write such an exception to the GPL

[3] = LGPL - GNU Lesser General Public License:
<http://www.gnu.org/licenses/lgpl.html>

[4] = MPL - Mozilla Public License:
<http://www.mozilla.org/MPL/>

2.81 curvesapi 1.03

2.81.1 Available under license :

BSD License

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2.82 cyrus-sasl-gssapi 2.1.26 :23.el7

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The implementation was written so as to conform with MIT's libdes.

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*
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```

```
#ifndef _KERBEROS_MIT_COPYRIGHT_H
#define _KERBEROS_MIT_COPYRIGHT_H
```

```
#pragma ident "@(#)mit-sipb-copyright.h 1.5 93/02/04 SMI"
```

```
#endif /* _KERBEROS_MIT_COPYRIGHT_H */
/*
```

```
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*
*/
```

```
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#define _KERBEROS_MIT_COPYRIGHT_H
```

```
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```

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* Tim Martin
* Rob Earhart
```

```
* Rob Siemborski
*/
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* Rob Earhart
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* Tim Martin

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2.86 device-mapper 1.02.146

2.87 device-mapper-libs 1.02.146

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

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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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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
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DAMAGE.

2.93 dogpile.cache 0.6.4

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

2.95 dracut-network 033-535.el7_5.1

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2.100 Eclipse JDT component 3.6

2.101 eclipse jdt core 3.5.1

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3.7.0

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

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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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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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of these things:

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

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

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

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

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

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

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2.107 elfutils-default-yama-scope 0.17.0

2.108 elfutils-libelf 0.17.0

2.109 elfutils-libs 0.17.0

2.110 enum34 1.0.4

2.110.1 Available under license :

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2.111 Equinox SDK 3.8 :Juno

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Updated 16 Apr 2009

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February 1, 2011
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2.119 fping 3.10-4

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```
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#
docs/FTL.TXT
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#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
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#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/zip/adler32.c
src/zip/infblock.c
src/zip/infblock.h
src/zip/infcodes.c
src/zip/infcodes.h
src/zip/inffixed.h
src/zip/inflate.c
src/zip/inftrees.c
src/zip/inftrees.h
src/zip/infutil.c
src/zip/infutil.h
src/zip/zconf.h
```

```
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/frandom/frandom.c
#
# EOF
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The gzip module uses the zlib license (see `src/gzip/zlib.h`) which too is compatible to the above two licenses.

The MD5 checksum support (only used for debugging in development builds) is in the public domain.

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2.121 funcsigns 1.0.2

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2.122 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
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
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

Footnotes:

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

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

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

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

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

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

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

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

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

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Version 2.1, February 1999

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

system.

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

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

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

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

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

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

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

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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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<signature of Ty Coon>, 1 April 1990
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2.125 futures 3.2.0

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2.126 git 1.8.3.1-14.el7_5

2.127 glib2 2.56.1 :2.el7

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

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

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

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

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

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

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

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

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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License along with this library; if not, write to the Free Software  
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```
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

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End

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2.128 glibc 2.17 :260.e17

2.128.1 Available under license :

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those

sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

commit ef7344f09c5ce00eb519ed14598b2a8e39c68387

Author: Joseph Myers <joseph@codesourcery.com>

Date: Sun Dec 22 14:49:48 2013 +0000

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

As discussed in

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

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

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

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

```

* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.

```

```

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234c1fdf1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
# Hurd-based GNU systems.
gnu
# The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd
diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/bsd4.4/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File name Caller Syscall name # args Strong name Weak names
-
-chflags - chflags 2 chflags
-fchflags - fchflags 2 fchflags
-revoke - revoke 1 revoke
-setlogin - setlogin 2 setlogin
-sigaltstack - sigaltstack 2 __sigaltstack sigaltstack
-wait4 - wait4 4 __wait4 wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmsg_nxthdr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c

```

```

similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
# File name Caller Syscall name # args Strong name Weak names

+chflags - chflags 2 chflags
+fchflags - fchflags 2 fchflags
flock - flock 2 __flock flock
getdents - getdirentries 4 __getdirentries getdirentries
getdtsz - getdtablesize 0 __getdtablesize getdtablesize
getpagesize - getpagesize 0 __getpagesize getpagesize
killpg - killpg 2 killpg
-sigblock - sigblock 1 __sigblock sigblock
+revoke - revoke 1 revoke
+setlogin - setlogin 2 setlogin
+sigaltstack - sigaltstack 2 __sigaltstack sigaltstack
sigpause - sigpause 1 __sigpause sigpause
-sigsetmask - sigsetmask 1 __sigsetmask sigsetmask
sigstack - sigstack 2 sigstack
sigvec - sigvec 3 __sigvec sigvec
-wait3 - wait3 3 __wait3 wait3
-waitpid - waitpid 3 __waitpid waitpid
+wait4 - wait4 4 __wait4 wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
rename to sysdeps/unix/bsd/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcsetattr.c b/sysdeps/unix/bsd/tcsetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcsetattr.c
rename to sysdeps/unix/bsd/tcsetattr.c

```

```

diff --git a/sysdeps/unix/bsd/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait.c
rename to sysdeps/unix/bsd/wait.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/bsd/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/waitpid.c
rename to sysdeps/unix/bsd/waitpid.c
diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
index 0b3bdee771782b7b..2ff027f0e1d83eb2 100644
--- a/sysdeps/unix/sysv/linux/wait3.c
+++ b/sysdeps/unix/sysv/linux/wait3.c
@@ -1,1 @@
-#include <sysdeps/unix/bsd/bsd4.4/wait3.c>
+#include <sysdeps/unix/bsd/wait3.c>

```

2.129 glibc-common 2.17

2.130 glusterfs 3.12.2 :18.el7

2.130.1 Available under license :

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Version 2, June 1991

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```
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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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From 0b7fa3bdd3334c70d99d1a1b99c3e37d49fc66e3 Mon Sep 17 00:00:00 2001

From: Atin Mukherjee <amukherj@redhat.com>

Date: Mon, 12 Mar 2018 19:47:11 +0530

Subject: [PATCH 184/201] cli/glusterfsd: remove copyright information

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

Label: DOWNSTREAM ONLY

Change-Id: I3a10e30878698e1d53082936bbf22bca560a3896

BUG: 1550474

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

Reviewed-on: <https://code.engineering.redhat.com/gerrit/132445>

Tested-by: RHGS Build Bot <nigelb@redhat.com>

Reviewed-by: Milind Changire <mchangir@redhat.com>

```
cli/src/cli.c          | 10 +-----
glusterfsd/src/glusterfsd.c | 10 +-----
2 files changed, 2 insertions(+), 18 deletions(-)
```

```
diff --git a/cli/src/cli.c b/cli/src/cli.c
```

```
index ce06366..52c1b67 100644
```

```
--- a/cli/src/cli.c
```

```
+++ b/cli/src/cli.c
```

```
@@ -66,15 +66,7 @@ extern int connected;
```

```
/* using argp for command line parsing */
```

```
const char *argp_program_version = ""
- PACKAGE_NAME" "PACKAGE_VERSION
- "\nRepository revision: " GLUSTERFS_REPOSITORY_REVISION "\n"
- "Copyright (c) 2006-2016 Red Hat, Inc. "
- "<https://www.gluster.org/>\n"
- "GlusterFS comes with ABSOLUTELY NO WARRANTY.\n"
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- "General Public License, version 3 or any later version (LGPLv3\n"
- "or later), or the GNU General Public License, version 2 (GPLv2),\n"
- "in all cases as published by the Free Software Foundation.";
+ PACKAGE_NAME" "PACKAGE_VERSION;
const char *argp_program_bug_address = "<" PACKAGE_BUGREPORT ">";
```

```

struct rpc_clnt *global_quotad_rpc;
diff --git a/glusterfsd/src/glusterfsd.c b/glusterfsd/src/glusterfsd.c
index eeffdc5..38b863c 100644
--- a/glusterfsd/src/glusterfsd.c
+++ b/glusterfsd/src/glusterfsd.c
@@ -87,15 +87,7 @@ static char gf_doc[] = "";
static char argp_doc[] = "--volfile-server=SERVER [MOUNT-POINT]\n" \
    "--volfile=VOLFILE [MOUNT-POINT]";
const char *argp_program_version = "" \
-   PACKAGE_NAME" "PACKAGE_VERSION" \
-   "\nRepository revision: " GLUSTERFS_REPOSITORY_REVISION "\n" \
-   "Copyright (c) 2006-2016 Red Hat, Inc. " \
-   "<https://www.gluster.org/>\n" \
-   "GlusterFS comes with ABSOLUTELY NO WARRANTY.\n" \
-   "It is licensed to you under your choice of the GNU Lesser\n" \
-   "General Public License, version 3 or any later version (LGPLv3\n" \
-   "or later), or the GNU General Public License, version 2 (GPLv2),\n" \
-   "in all cases as published by the Free Software Foundation.";
+   PACKAGE_NAME" "PACKAGE_VERSION;
const char *argp_program_bug_address = "<" PACKAGE_BUGREPORT ">";

```

```
static error_t parse_opts (int32_t key, char *arg, struct argp_state *_state);
```

```
--
```

1.8.3.1

From 9a95de08eb49f10c0a342099826d5e4c445749aa Mon Sep 17 00:00:00 2001

From: Mohit Agrawal <moagrawa@redhat.com>

Date: Thu, 31 May 2018 12:29:35 +0530

Subject: [PATCH 313/325] dht: Inconsistent permission for directories after
brick stop/start

Problem: Inconsistent access permissions on directories after

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

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

> BUG: 1584517

> Change-Id: I3e039607148005015b5d93364536158380d4c5aa

> fixes: bz#1584517

> (cherry picked from commit e57cbae0bcc3d8649b869eda5ec20f3c6a6d34f0)

> (Reviewed on upstream link <https://review.gluster.org/#/c/20108/>)

BUG: 1582066

Change-Id: I985445521aeddce52c0a56c20287e523aa3398b

Signed-off-by: Mohit Agrawal <moagrawa@redhat.com>

Reviewed-on: <https://code.engineering.redhat.com/gerrit/143721>

Tested-by: RHGS Build Bot <nigelb@redhat.com>

Reviewed-by: Sunil Kumar Heggodu Gopala Acharya <sheggodu@redhat.com>

```
tests/bugs/bug-1584517.t          | 70 ++++++
xlators/cluster/dht/src/dht-common.c | 81 ++++++
xlators/cluster/dht/src/dht-common.h | 3 ++
xlators/cluster/dht/src/dht-selfheal.c | 2 +-
4 files changed, 147 insertions(+), 9 deletions(-)
create mode 100644 tests/bugs/bug-1584517.t
```

```
diff --git a/tests/bugs/bug-1584517.t b/tests/bugs/bug-1584517.t
```

```
new file mode 100644
```

```
index 0000000..7f48015
```

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

```
+++ b/tests/bugs/bug-1584517.t
```

```
@@ -0,0 +1,70 @@
```

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

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

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

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

```
+cleanup;
```

```
+#This test case verifies attributes (uid/gid/perm) for the
```

```
+#directory are healed after stop/start brick. To verify the same
```

```
+#test case change attributes of the directory after down a DHT subvolume
```

```
+#and one AFR children. After start the volume with force and run lookup
```

```
+#operation attributes should be healed on started bricks at the backend.
```

```
+
```

```
+
```

```
+TEST glusterd
```

```
+TEST pidof glusterd
```

```
+TEST $CLI volume create $V0 replica 3 $H0:$B0/${V0}{0,1,2,3,4,5}
```

```
+TEST $CLI volume start $V0
```

```
+TEST useradd dev -M
```

```
+TEST groupadd QA
```

```
+
```

```
+TEST glusterfs --volfile-id=$V0 --volfile-server=$H0 $M0;
```

```
+
```

```
+TEST mkdir $M0/dironedown
```

```
+
```

```
+TEST kill_brick $V0 $H0 $B0/${V0}2
```

```
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "5" online_brick_count
```

```
+
```

```
+TEST kill_brick $V0 $H0 $B0/${V0}3
```

```
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "4" online_brick_count
```

```
+
```

```
+TEST kill_brick $V0 $H0 $B0/${V0}4
```

```
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "3" online_brick_count
```

```

+
+TEST kill_brick $V0 $H0 $B0/${V0}5
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "2" online_brick_count
+
+TEST chown dev $M0/dironedown
+TEST chgrp QA $M0/dironedown
+TEST chmod 777 $M0/dironedown
+
+#store the permissions for comparison
+permission_onedown=`ls -l $M0 | grep dironedown | awk '{print $1}'`
+
+TEST $CLI volume start $V0 force
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "6" online_brick_count
+
+TEST glusterfs --volfile-id=$V0 --volfile-server=$H0 $M0;
+
+#Run lookup two times to hit revalidate code path in dht
+# to heal user attr
+
+TEST ls $M0/dironedown
+
+#check attributes those were created post brick going down
+TEST brick_perm=`ls -l $B0/${V0}3 | grep dironedown | awk '{print $1}'`
+TEST echo $brick_perm
+TEST [ ${brick_perm} = ${permission_onedown} ]
+uid=`ls -l $B0/${V0}3 | grep dironedown | awk '{print $3}'`
+TEST echo $uid
+TEST [ $uid = dev ]
+gid=`ls -l $B0/${V0}3 | grep dironedown | awk '{print $4}'`
+TEST echo $gid
+TEST [ $gid = QA ]
+
+TEST umount $M0
+userdel --force dev
+groupdel QA
+
+cleanup
+exit
+
diff --git a/xlators/cluster/dht/src/dht-common.c b/xlators/cluster/dht/src/dht-common.c
index c6adce4..23049b6 100644
--- a/xlators/cluster/dht/src/dht-common.c
+++ b/xlators/cluster/dht/src/dht-common.c
@@ -1329,6 +1329,8 @@ dht_lookup_dir_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
     char    gfid_local[GF_UUID_BUF_SIZE] = {0};
     char    gfid_node[GF_UUID_BUF_SIZE] = {0};
     int32_t mds_xattr_val[1]           = {0};
+    call_frame_t *copy                  = NULL;

```

```

+   dht_local_t *copy_local          = NULL;

    GF_VALIDATE_OR_GOTO ("dht", frame, out);
    GF_VALIDATE_OR_GOTO ("dht", this, out);
@@ -1401,6 +1403,23 @@ dht_lookup_dir_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
    dht_aggregate_xattr (local->xattr, xattr);
    }

+   if (dict_get (xattr, conf->mds_xattr_key)) {
+       local->mds_subvol = prev;
+       local->mds_stbuf.ia_gid = stbuf->ia_gid;
+       local->mds_stbuf.ia_uid = stbuf->ia_uid;
+       local->mds_stbuf.ia_prot = stbuf->ia_prot;
+   }

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

+   if (local->inode == NULL)
+       local->inode = inode_ref (inode);

@@ -1496,6 +1515,43 @@ unlock:
    &local->postparent, 1);
    }

+   if (local->need_attrheal) {
+       local->need_attrheal = 0;
+       if (!__is_root_gfid (inode->gfid)) {
+           gf_uuid_copy (local->gfid, local->mds_stbuf.ia_gfid);
+           local->stbuf.ia_gid = local->mds_stbuf.ia_gid;
+           local->stbuf.ia_uid = local->mds_stbuf.ia_uid;
+           local->stbuf.ia_prot = local->mds_stbuf.ia_prot;
+       }
+       copy = create_frame (this, this->ctx->pool);
+       if (copy) {
+           copy_local = dht_local_init (copy, &local->loc,
+                                       NULL, 0);
+           if (!copy_local) {
+               DHT_STACK_DESTROY (copy);
+               goto skip_attr_heal;
+           }
+       }
    }

```

```

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

-int static
+int
is_permission_different (ia_prot_t *prot1, ia_prot_t *prot2)
{
+     if ((prot1->owner.read != prot2->owner.read) ||
@@ -1677,12 +1733,12 @@ dht_revalidate_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
+     {
+         if ((local->stbuf.ia_gid != stbuf->ia_gid) ||
+             (local->stbuf.ia_uid != stbuf->ia_uid) ||
-             (__is_root_gfid (stbuf->ia_gfid) &&
-             is_permission_different (&local->stbuf.ia_prot,
-                                     &stbuf->ia_prot))) {
+             &stbuf->ia_prot)) {
+                 local->need_selfheal = 1;
+             }
+     }
+ }

+     if (!dict_get (xattr, conf->mds_xattr_key)) {
+         gf_msg_debug (this->name, 0,
+                       "internal xattr %s is not present"

```

```

@@ -1828,10 +1884,9 @@ out:
    local->need_selfheal = 0;
    if (!__is_root_gfid (inode->gfid)) {
        gf_uuid_copy (local->gfid, local->mds_stbuf.ia_gfid);
-       if (local->mds_stbuf.ia_gid || local->mds_stbuf.ia_uid) {
-           local->stbuf.ia_gid = local->mds_stbuf.ia_gid;
-           local->stbuf.ia_uid = local->mds_stbuf.ia_uid;
-       }
+       local->stbuf.ia_gid = local->mds_stbuf.ia_gid;
+       local->stbuf.ia_uid = local->mds_stbuf.ia_uid;
+       local->stbuf.ia_prot = local->mds_stbuf.ia_prot;
    } else {
        gf_uuid_copy (local->gfid, local->stbuf.ia_gfid);
        local->stbuf.ia_gid = local->prebuf.ia_gid;
@@ -1843,8 +1898,10 @@ out:
    if (copy) {
        copy_local = dht_local_init (copy, &local->loc,
                                     NULL, 0);
-       if (!copy_local)
+       if (!copy_local) {
+           DHT_STACK_DESTROY (copy);
+           goto cont;
+       }
        copy_local->stbuf = local->stbuf;
        copy_local->mds_stbuf = local->mds_stbuf;
        copy_local->mds_subvol = local->mds_subvol;
@@ -1854,6 +1911,14 @@ out:
        dht_dir_attr_heal,
        dht_dir_attr_heal_done,
        copy, copy);
+
+       if (ret) {
+           gf_msg (this->name, GF_LOG_ERROR, ENOMEM,
+                 DHT_MSG_DIR_ATTR_HEAL_FAILED,
+                 "Synctask creation failed to heal attr "
+                 "for path %s gfid %s ",
+                 local->loc.path, local->gfid);
+           DHT_STACK_DESTROY (copy);
+       }
    }
}

cont:
diff --git a/xlators/cluster/dht/src/dht-common.h b/xlators/cluster/dht/src/dht-common.h
index a70342f..b40815c 100644
--- a/xlators/cluster/dht/src/dht-common.h
+++ b/xlators/cluster/dht/src/dht-common.h
@@ -298,6 +298,7 @@ struct dht_local {
    xlator_t      *mds_subvol; /* This is use for dir only */
    char          need_selfheal;

```

```

    char          need_xattr_heal;
+   char          need_attrheal;
    int           file_count;
    int           dir_count;
    call_frame_t  *main_frame;
@@ -1491,4 +1492,6 @@ int
dht_selfheal_dir_setattr (call_frame_t *frame, loc_t *loc, struct iatt *stbuf,
                        int32_t valid, dht_layout_t *layout);

+int
+is_permission_different (ia_prot_t *prot1, ia_prot_t *prot2);
#endif/* _DHT_H */
diff --git a/xlators/cluster/dht/src/dht-selfheal.c b/xlators/cluster/dht/src/dht-selfheal.c
index e9b1db9..035a709 100644
--- a/xlators/cluster/dht/src/dht-selfheal.c
+++ b/xlators/cluster/dht/src/dht-selfheal.c
@@ -2495,7 +2495,7 @@ dht_dir_attr_heal (void *data)
                NULL, NULL, NULL, NULL);
        } else {
            ret = syncop_setattr (subvol, &local->loc, &local->mds_stbuf,
-                (GF_SET_ATTR_UID | GF_SET_ATTR_GID),
+                (GF_SET_ATTR_UID | GF_SET_ATTR_GID | GF_SET_ATTR_MODE),
                NULL, NULL, NULL, NULL);
        }

--
1.8.3.1

```

2.131 Gmongo 0.5.1

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2.133 gnu-crypto 2.0.1

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2.134 gnupg2 2.0.22-5.el7_5

2.135 gnutls 3.3.29 :8.el7

2.136 gobject-introspection 1.56.1 :1.el7

2.136.1 Available under license :

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

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2.143 groovy.jar 1.7.0

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2.144 gwt 2.4.0

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/**

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- Open Standards
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- Donate to the OSI
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2.147 HdrHistogram 2.1.8

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2.149 http-parser 2.7.1 :5.e17_4

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class="warning"><strong>Notice:</strong><br />This is not a Q&A section. Comments placed here should be
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href="http://httpd.apache.org/lists.html">mailing lists</a>.</div>
<script type="text/javascript"><!--<!--><![CDATA[</><!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write('<div id="comments_thread"></div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
  }
})(window, document);
--><![></script></div><div id="footer">
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href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--<!--><![CDATA[</><!--
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  prettyPrint();
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*/

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```

/*****
* NCSA HTTPd Server
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*
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```
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*/
```

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For the src/lib/apr-util/xml/expat/conftools/install-sh component:

```
#
# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
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#
```

For the test/zb.c component:

```
/* ZeusBench V1.01
```

```
=====
```

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

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

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

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2.154 httpmime 4.3.5

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2.156 idna 2.6

2.157 info 5.1

2.158 inotify-tools 3.14 :8.el7

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2.160 iprutils 2.4.15.1 :1.e17

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2.165 iwl135-firmware 18.168.6.1-58.el7_4

2.166 iwl2000-firmware 18.168.6.1-58.el7_4

2.167 iwl2030-firmware 18.168.6.1-58.el7_4

2.168 iwl3160-firmware 22.0.7.0-58.el7_4

2.169 iwl3945-firmware 15.32.2.9-58.el7_4

2.170 iwl4965-firmware 228.61.2.24-58.el7_4

2.171 iwl5000-firmware 8.83.5.1_1-58.el7_4

2.172 iwl5150-firmware 8.24.2.2-58.el7_4

2.173 iwl6000-firmware 9.221.4.1-58.el7_4

2.174 iwl6000g2a-firmware 17.168.5.3-58.el7_4

**2.175 iwl6000g2b-firmware 17.168.5.2-
58.el7_4**

2.176 iwl6050-firmware 41.28.5.1-58.el7_4

2.177 iwl7260-firmware 22.0.7.0-58.el7_4

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2.181 janino 2.5.15

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2.185 java Transaction API 1.1.0

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2.202 Jetty-Server 9.3.0.M2

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2.206 jibx 1.2.1

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2.207 jmespath 0.9.3

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2.208 JMS 1.1 1.1

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their package names from the 'antlr.*' to the 'clover.antlr.*'. 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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The primary ANTLR guy:

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

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Modified by Atlassian

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Modified by Atlassian

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Version 1.1

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/*

File: Core.js

Description:

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

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

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>>.

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1.1.2

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/**

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Version 2, June 1991

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of

running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

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

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

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

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

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

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

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

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

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

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

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

2.220 JRadius Client 1.1.4

2.220.1 Available under license :

/**

* JRadius - A RADIUS Server Java Adapter

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Version 2.1, February 1999

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Preamble

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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

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

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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.

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

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

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice

and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work

is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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2.221 jradius-core-1.1.4 1.1.4

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2.222 jradius-dictionary-1.1.4 1.1.4

2.223 jradius-extended 1.1.4

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2.233 Junit 4.10

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2.234 jxls-2.3.0 2.3.0

2.235 jxls-poi-1.0.11 1.0.11

2.236 kafka_2.11-100 2.11-1.0.0

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

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

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

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

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

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

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

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

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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.

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

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Appendix: How to Apply These Terms to Your New Libraries

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* <http://www.hypermall.com/>
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *
 *
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* M. Welsh, 6 July 1996

*

*

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```
#ifndef __LICENSE_H
```

```
#define __LICENSE_H
```

```
static inline int license_is_gpl_compatible(const char *license)
```

```
{
```

```
return (strcmp(license, "GPL") == 0
```

```
|| strcmp(license, "GPL v2") == 0
```

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

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

```
|| strcmp(license, "Dual MIT/GPL") == 0
```

```
|| strcmp(license, "Dual MPL/GPL") == 0);
```

```
}
```

```
#endif
```

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for his contributions to the dvb-net driver

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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 patching the cable card decoder driver

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...and all the other dbox2 people

for many bugfixes in the generic DVB Core, frontend drivers and their work on the dbox2 port of the DVB driver

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for all the work for the FlexCopII chipset by B2C2,Inc.

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

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TechnoTrend/Hauppage DEC driver firmware

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

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

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

Contributors to bttv:

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Radio card (ITT sound processor)

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Ragnar Hojland Espinosa <ragnar@macula.net>

ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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2.238 kernel 3.10.0 :957.5.1.e17

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for his work on the initial Linux DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>

for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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

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</sect1>

</appendix>

```
#ifndef __LICENSE_H
```

```
#define __LICENSE_H
```

```
static inline int license_is_gpl_compatible(const char *license)
```

```
{  
  return (strcmp(license, "GPL") == 0  
  || strcmp(license, "GPL v2") == 0  
  || strcmp(license, "GPL and additional rights") == 0  
  || strcmp(license, "Dual BSD/GPL") == 0  
  || strcmp(license, "Dual MIT/GPL") == 0  
  || strcmp(license, "Dual MPL/GPL") == 0);  
}
```

```
#endif
```

```
  GNU GENERAL PUBLIC LICENSE
```

```
  Version 2, June 1991
```

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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
```

* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

* Fix is simple: make large buffers large enough to hold entire

* SDU, and leave <small_buffer_data> bytes empty at the start. Then

* copy small buffer contents to head of large buffer.

* Trick is to avoid fragmenting Linux, due to need for a lot of large

* buffers. This is done by 2 things:

* 1) skb->destructor / skb->atm.recycle_buffer

* combined, allow nicstar_free_rx_skb to be called to

* recycle large data buffers

* 2) skb_clone of received buffers

* See nicstar_free_rx_skb and linearize_buffer for implementation

* details.

*
*
*

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*
* M. Welsh, 6 July 1996

*
*
*/

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Version 3, 29 June 2007

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2.239 keystoneauth1 3.4.0

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2.240 kibana 3.0.0.8

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2.241 killcx 1.0.3

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2.242 krb5 1.15.1 :34.e17

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```
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/*
```

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```
*/
```



```
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/*
```

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cmd/krb5/iproplib/iproplib.x
cmd/krb5/iproplib/iproplib_hdr.h
cmd/krb5/kadmin/server/iproplib_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h

lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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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=utf-8" />
```

```
<title>MIT Kerberos License information &mdash; MIT Kerberos Documentation</title>
```

```
<link rel="stylesheet" href="_static/agogo.css" type="text/css" />
```

```
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
```

```
<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
```

```
<script type="text/javascript">
```

```
var DOCUMENTATION_OPTIONS = {
```

```
    URL_ROOT:    '/',
```

```
    VERSION:    '1.15.1',
```

```
    COLLAPSE_INDEX: false,
```

```
    FILE_SUFFIX: '.html',
```

```
    HAS_SOURCE: true
```

```
};
```

```
</script>
```

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

```
<script type="text/javascript" src="_static/underscore.js"></script>
```

```
<script type="text/javascript" src="_static/doctools.js"></script>
```

```
<link rel="author" title="About these documents" href="about.html" />
```

```
<link rel="copyright" title="Copyright" href="copyright.html" />
```

```
<link rel="top" title="MIT Kerberos Documentation" href="index.html" />
```

```
<link rel="up" title="MIT Kerberos features" href="mitK5features.html" />
```

```
<link rel="next" title="Copyright" href="copyright.html" />
```

```
<link rel="prev" title="MIT Kerberos features" href="mitK5features.html" />
```

```
</head>
```

```
<body>
```

```
<div class="header-wrapper">
```

```
<div class="header">
```

```
<h1><a href="index.html">MIT Kerberos Documentation</a></h1>
```

```

    <div class="rel">

    <a href="index.html" title="Full Table of Contents"
      accesskey="C">Contents</a> |
    <a href="mitK5features.html" title="MIT Kerberos features"
      accesskey="P">previous</a> |
    <a href="copyright.html" title="Copyright"
      accesskey="N">next</a> |
    <a href="genindex.html" title="General Index"
      accesskey="I">index</a> |
    <a href="search.html" title="Enter search criteria"
      accesskey="S">Search</a> |
    <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
    </div>
  </div>
</div>

<div class="content-wrapper">
  <div class="content">
    <div class="document">

      <div class="documentwrapper">
        <div class="bodywrapper">
          <div class="body">

            <div class="section" id="mit-kerberos-license-information">
<span id="mitk5license"></span><h1>MIT Kerberos License information<a class="headerlink" href="#mit-
kerberos-license-information" title="Permalink to this headline"></a></h1>
<div class="toctree-wrapper compound">
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```

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<div class="highlight-python"><div class="highlight"><pre>lib/gssapi/generic/gssapi_err_generic/et</pre>

lib/gssapi/mechglue/g_accept_sec_context/clib/gssapi/mechglue/g_acquire_cred/clib/gssapi/mechglue/g_canon_name/clib/gssapi/mechglue/g_compare_name/clib/gssapi/mechglue/g_context_time/clib/gssapi/mechglue/g_delete_sec_context/c</pre>


```
<span class="n">kadmin</span><span class="o"></span><span class="n">server</span><span
class="o"></span><span class="n">ipropd_svc</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span
class="n">iprop</span><span class="o">.</span><span class="n">x</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span
class="n">kdb_convert</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span
class="n">kdb_log</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span
class="n">kdb_log</span><span class="o">.</span><span class="n">h</span>
<span class="n">lib</span><span class="o"></span><span class="n">krb5</span><span
class="o"></span><span class="n">error_tables</span><span class="o"></span><span
class="n">kdb5_err</span><span class="o">.</span><span class="n">et</span>
<span class="n">slave</span><span class="o"></span><span class="n">kpropd_rpc</span><span
class="o">.</span><span class="n">c</span>
<span class="n">slave</span><span class="o"></span><span class="n">kproplog</span><span
class="o">.</span><span class="n">c</span>
</pre></div>
```

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</div></blockquote>

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  <div class="sidebar">
    <h2>On this page</h2>
    <ul>
<li><a class="reference internal" href="#">MIT Kerberos License information</a></li>
</ul>

    <br/>
    <h2>Table of contents</h2>
    <ul>
<li class="toctree-l1"><a class="reference internal" href="user/index.html">For users</a></li>
<li class="toctree-l1"><a class="reference internal" href="admin/index.html">For administrators</a></li>
<li class="toctree-l1"><a class="reference internal" href="appdev/index.html">For application developers</a></li>
<li class="toctree-l1"><a class="reference internal" href="plugindev/index.html">For plugin module
developers</a></li>
<li class="toctree-l1"><a class="reference internal" href="build/index.html">Building Kerberos V5</a></li>
<li class="toctree-l1"><a class="reference internal" href="basic/index.html">Kerberos V5 concepts</a></li>
<li class="toctree-l1"><a class="reference internal" href="formats/index.html">Protocols and file formats</a></li>
<li class="toctree-l1"><a class="reference internal" href="mitK5features.html">MIT Kerberos features</a></li>
<li class="toctree-l1"><a class="reference internal" href="build_this.html">How to build this documentation from
the source</a></li>
<li class="toctree-l1"><a class="reference internal" href="about.html">Contributing to the MIT Kerberos
Documentation</a></li>
<li class="toctree-l1"><a class="reference internal" href="resources.html">Resources</a></li>
</ul>

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      <input type="hidden" name="area" value="default" />
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  <div class="clearer"></div>
</div>
</div>

<div class="footer-wrapper">
  <div class="footer" >
    <div class="right" ><i>Release: 1.15.1</i><br />
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  </div>

```



```

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<a href="index.html" title="Full Table of Contents"
  >Contents</a> |
<a href="mitK5features.html" title="MIT Kerberos features"
  >previous</a> |
<a href="copyright.html" title="Copyright"
  >next</a> |
<a href="genindex.html" title="General Index"
  >index</a> |
<a href="search.html" title="Enter search criteria"
  >Search</a> |
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information">feedback</a>
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</div>

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<link rel="stylesheet" href="_static/kerb.css" type="text/css" />

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  HAS_SOURCE:  true
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<script type="text/javascript" src="_static/underscore.js"></script>
<script type="text/javascript" src="_static/doctools.js"></script>
<link rel="author" title="About these documents" href="about.html" />
<link rel="copyright" title="Copyright" href="#" />

```

```

<link rel="top" title="MIT Kerberos Documentation" href="index.html" />
<link rel="up" title="MIT Kerberos License information" href="mitK5license.html" />
<link rel="next" title="How to build this documentation from the source" href="build_this.html" />
<link rel="prev" title="MIT Kerberos License information" href="mitK5license.html" />
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      <div class="rel">

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          accesskey="C">Contents</a> |
        <a href="mitK5license.html" title="MIT Kerberos License information"
          accesskey="P">previous</a> |
        <a href="build_this.html" title="How to build this documentation from the source"
          accesskey="N">next</a> |
        <a href="genindex.html" title="General Index"
          accesskey="I">index</a> |
        <a href="search.html" title="Enter search criteria"
          accesskey="S">Search</a> |
        <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__Copyright">feedback</a>
      </div>
    </div>
  </div>

  <div class="content-wrapper">
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      <div class="document">

        <div class="documentwrapper">
          <div class="bodywrapper">
            <div class="body">

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                <p>Copyright 1985-2017 by the Massachusetts Institute of
                Technology and its contributors. All rights reserved.</p>
                <p>See <a class="reference internal" href="mitK5license.html#mitk5license"><em>MIT Kerberos License
                information</em></a> for additional copyright and license
                information.</p>
              </div>

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

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<ul>
<li><a class="reference internal" href="#">Copyright</a></li>
</ul>

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</form>
</div>
    <div class="clearer"></div>
</div>
</div>

<div class="footer-wrapper">
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    &copy; <a href="#">Copyright</a> 1985-2017, MIT.
    </div>
    <div class="left">

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<a href="index.html" title="Full Table of Contents"
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>previous</a> |
<a href="build_this.html" title="How to build this documentation from the source"
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<a href="search.html" title="Enter search criteria"
>Search</a> |
<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__Copyright">feedback</a>
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</div>
</div>
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</body>
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</html>
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=====

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:hidden:

copyright.rst

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```
# This program is intended to be used by "make check-copyright". It
# checks for violations of the coding standards related to copyright
# and license statements in source code comments.
```

```
import os
import sys
import re
```

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

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

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

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

```
def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'^* ([^ ]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
```

```

# Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'^\s.*?\s*/', '', line)
    line = line.strip()

    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').rstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
                                   code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
    elif line.strip() != "":
        code_seen = True

    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*

```

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```
*/  
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */  
/*
```

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```
*/  
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */  
/*
```

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*/

/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */

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```
cmd/krb5/iprof/iprof.x
cmd/krb5/iprof/iprof_hdr.h
cmd/krb5/kadmin/server/iprofd_svc.c
cmd/krb5/kproplog/kproplog.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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uts/common/gssapi/include/mechglueP.h

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<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
<link rel="stylesheet" href="_static/kerb.css" type="text/css" />

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  FILE_SUFFIX: '.html',
  HAS_SOURCE:  true
  };
</script>
<script type="text/javascript" src="_static/jquery.js"></script>
<script type="text/javascript" src="_static/underscore.js"></script>
<script type="text/javascript" src="_static/doctools.js"></script>
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<link rel="next" title="Copyright" href="copyright.html" />
<link rel="prev" title="MIT Kerberos features" href="mitK5features.html" />
</head>
<body>
<div class="header-wrapper">
  <div class="header">

    <h1><a href="index.html">MIT Kerberos Documentation</a></h1>

    <div class="rel">

      <a href="index.html" title="Full Table of Contents"
        accesskey="C">Contents</a> |
      <a href="mitK5features.html" title="MIT Kerberos features"
        accesskey="P">previous</a> |
      <a href="copyright.html" title="Copyright"
        accesskey="N">next</a> |
      <a href="genindex.html" title="General Index"
        accesskey="I">index</a> |
      <a href="search.html" title="Enter search criteria"
        accesskey="S">Search</a> |
      <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>

```

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

```
<div class="content-wrapper">
  <div class="content">
    <div class="document">
```

```
      <div class="documentwrapper">
        <div class="bodywrapper">
          <div class="body">
```

```
      <div class="section" id="mit-kerberos-license-information">
        <span id="mitk5license"></span><h1>MIT Kerberos License information<a class="headerlink" href="#mit-
        kerberos-license-information" title="Permalink to this headline"></a></h1>
        <div class="toctree-wrapper compound">
      </div>
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<div class="highlight-python"><div class="highlight"><pre>lib/gssapi/generic/gssapi_err_generic.et</pre>

lib/gssapi/mechglue/g_accept_sec_context.c</pre>

lib/gssapi/mechglue/g_acquire_cred.c</pre>

lib/gssapi/mechglue/g_canon_name.c</pre>

lib/gssapi/mechglue/g_compare_name.c</pre>

lib/gssapi/mechglue/g_context_time.c</pre>

lib/gssapi/mechglue/g_delete_sec_context.c</pre>

lib/gssapi/mechglue/g_dsp_name.c</pre>

lib/gssapi/mechglue/g_dsp_status.c</pre>

lib/gssapi/mechglue/g_dup_name.c</pre>

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```
<span class="n">slave</span><span class="o">/</span><span class="n">kproplog</span><span
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<ul>
<li class="toctree-l1"><a class="reference internal" href="user/index.html">For users</a></li>
<li class="toctree-l1"><a class="reference internal" href="admin/index.html">For administrators</a></li>
```


- [For application developers](appdev/index.html)
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>Contents |

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>previous |

<a href="copyright.html" title="Copyright"

>next |

<a href="genindex.html" title="General Index"

>index |

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<link rel="next" title="How to build this documentation from the source" href="build_this.html" />
<link rel="prev" title="MIT Kerberos License information" href="mitK5license.html" />
</head>
<body>
  <div class="header-wrapper">
    <div class="header">

      <h1><a href="index.html">MIT Kerberos Documentation</a></h1>

      <div class="rel">

        <a href="index.html" title="Full Table of Contents"

```

```
    accesskey="C">Contents</a> |
    <a href="mitK5license.html" title="MIT Kerberos License information"
    accesskey="P">previous</a> |
    <a href="build_this.html" title="How to build this documentation from the source"
    accesskey="N">next</a> |
    <a href="genindex.html" title="General Index"
    accesskey="I">index</a> |
    <a href="search.html" title="Enter search criteria"
    accesskey="S">Search</a> |
    <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__Copyright">feedback</a>
    </div>
  </div>
</div>
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  <div class="content">
    <div class="document">
```

```
      <div class="documentwrapper">
        <div class="bodywrapper">
          <div class="body">
```

```
      <div class="section" id="copyright">
        <h1>Copyright<a class="headerlink" href="#copyright" title="Permalink to this headline"></a></h1>
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        Technology and its contributors. All rights reserved.</p>
        <p>See <a class="reference internal" href="mitK5license.html#mitk5license"><em>MIT Kerberos License
        information</em></a> for additional copyright and license
        information.</p>
      </div>
```

```
    </div>
  </div>
</div>
  <div class="sidebar">
    <h2>On this page</h2>
    <ul>
      <li><a class="reference internal" href="#">Copyright</a></li>
    </ul>
```

```
  <br/>
  <h2>Table of contents</h2>
  <ul>
    <li class="toctree-l1"><a class="reference internal" href="user/index.html">For users</a></li>
    <li class="toctree-l1"><a class="reference internal" href="admin/index.html">For administrators</a></li>
    <li class="toctree-l1"><a class="reference internal" href="appdev/index.html">For application developers</a></li>
```

```
<li class="toctree-l1"><a class="reference internal" href="plugindev/index.html">For plugin module
developers</a></li>
<li class="toctree-l1"><a class="reference internal" href="build/index.html">Building Kerberos V5</a></li>
<li class="toctree-l1"><a class="reference internal" href="basic/index.html">Kerberos V5 concepts</a></li>
<li class="toctree-l1"><a class="reference internal" href="formats/index.html">Protocols and file formats</a></li>
<li class="toctree-l1"><a class="reference internal" href="mitK5features.html">MIT Kerberos features</a></li>
<li class="toctree-l1"><a class="reference internal" href="build_this.html">How to build this documentation from
the source</a></li>
<li class="toctree-l1"><a class="reference internal" href="about.html">Contributing to the MIT Kerberos
Documentation</a></li>
<li class="toctree-l1"><a class="reference internal" href="resources.html">Resources</a></li>
</ul>
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<br/>
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<h4><a href="index.html">Full Table of Contents</a></h4>
```

```
<h4>Search</h4>
```

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  <input type="submit" value="Go" />
  <input type="hidden" name="check_keywords" value="yes" />
  <input type="hidden" name="area" value="default" />
</form>
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</div>
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</div>
```

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

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

```
<div class="right" ><i>Release: 1.15.1</i><br />
```

```
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```

```
</div>
```

```
<div class="left">
```

```
<a href="index.html" title="Full Table of Contents"
```

```
>Contents</a> |
```

```
<a href="mitK5license.html" title="MIT Kerberos License information"
```

```
>previous</a> |
```

```
<a href="build_this.html" title="How to build this documentation from the source"
```

```
>next</a> |
```

```
<a href="genindex.html" title="General Index"
```

```
>index</a> |
```

```
<a href="search.html" title="Enter search criteria"
```

```
>Search</a> |
```

```
<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__Copyright">feedback</a>
```

```
</div>
```

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</div>
```

```
</div>
```

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</body>
</html>
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=====
```

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   :hidden:
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   copyright.rst
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```
.. include:: notice.rst
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.. parsed-literal::

```
lib/gssapi/generic/gssapi_err_generic.et  
lib/gssapi/mechglue/g_accept_sec_context.c  
lib/gssapi/mechglue/g_acquire_cred.c  
lib/gssapi/mechglue/g_canon_name.c  
lib/gssapi/mechglue/g_compare_name.c  
lib/gssapi/mechglue/g_context_time.c  
lib/gssapi/mechglue/g_delete_sec_context.c  
lib/gssapi/mechglue/g_dsp_name.c  
lib/gssapi/mechglue/g_dsp_status.c  
lib/gssapi/mechglue/g_dup_name.c
```

lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

.. parsed-literal::

include/ipropr_hdr.h
kadmin/server/ipropr_svc.c
lib/kdb/ipropr.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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=====  
The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c

lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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```
/*
* $Header: /opt/shared/tmp/checkstyle-cvsbackup/checkstyle/LICENSE.apache,v 1.2 2002-02-04 12:40:53 oburn
Exp $
* $Revision: 1.2 $
* $Date: 2002-02-04 12:40:53 $
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```
*/
/*
 * $Header: /opt/shared/tmp/checkstyle-
cvbackup/checkstyle/contrib/examples/checks/com/puppcrawl/tools/checkstyle/checks/xpath/saxpath_LICENSE.t
xt,v 1.1 2003-07-23 14:22:41 rickgiles Exp $
 * $Revision: 1.1 $
 * $Date: 2003-07-23 14:22:41 $
 *
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## 2.251 libdb4 4.8.30 :13.el7

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*/
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## 2.252 libdrm 2.4.91 :3.e17

### 2.252.1 Available under license :

/\*\*

\* \file xf86drm.c

\* User-level interface to DRM device

\*

\* \author Rickard E. (Rik) Faith <faith@valinux.com>

\* \author Kevin E. Martin <martin@valinux.com>

\*/

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## 2.258 libqb 0.17.1

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```
-*- makefile -*-
```

```
#
```

```
Makefile for BSD systems
```

```
#
```

```
INCFLAGS += -I${LIBFFI_BUILD_DIR}/include
```

```
LOCAL_LIBS += ${LIBFFI} -lpthread
```

```
LIBFFI_CFLAGS = ${FFI_MMAP_EXEC} -pthread
```

```
LIBFFI_BUILD_DIR = ${.CURDIR}/libffi-${arch}
```

```
.if ${srcdir} == "."
```

```
LIBFFI_SRC_DIR := ${.CURDIR}/libffi
```

```
.else
```

```
LIBFFI_SRC_DIR := ${srcdir}/libffi
```

```
.endif
```

```
LIBFFI = ${LIBFFI_BUILD_DIR}/.libs/libffi_convenience.a
```

```
LIBFFI_CONFIGURE = ${LIBFFI_SRC_DIR}/configure --disable-static \
```

```
--with-pic=yes --disable-dependency-tracking
```

```
$(OBJS): ${LIBFFI}
```

```
$(LIBFFI):
```

```
@mkdir -p ${LIBFFI_BUILD_DIR}
```

```
@if [! -f ${LIBFFI_BUILD_DIR}/Makefile]; then \
```

```
echo "Configuring libffi"; \
```

```
cd ${LIBFFI_BUILD_DIR} && \
```

```
/usr/bin/env CC="${CC}" LD="${LD}" CFLAGS="${LIBFFI_CFLAGS}" GREP_OPTIONS="" \
```

```
/bin/sh ${LIBFFI_CONFIGURE} ${LIBFFI_HOST} > /dev/null; \
```

```
fi
```

```
@cd ${LIBFFI_BUILD_DIR} && ${MAKE}
```

# 2.262 libsss\_idmap 1.15.2-50.el7\_4.8

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```

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```
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```

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```
-*- makefile -*-
```

```
#
```

```
Makefile for BSD systems
```

```
#
```

```
INCFLAGS += -I${LIBFFI_BUILD_DIR}/include
```

```
LOCAL_LIBS += ${LIBFFI} -pthread
```

```
LIBFFI_CFLAGS = ${FFI_MMAP_EXEC} -pthread
```

```
LIBFFI_BUILD_DIR = ${.CURDIR}/libffi-${arch}
```

```
.if ${srcdir} == "."
```

```
LIBFFI_SRC_DIR := ${.CURDIR}/libffi
```

```
.else
```

```
LIBFFI_SRC_DIR := ${srcdir}/libffi
```

```
.endif
```

```
LIBFFI = ${LIBFFI_BUILD_DIR}/.libs/libffi_convenience.a
```

```
LIBFFI_CONFIGURE = ${LIBFFI_SRC_DIR}/configure --disable-static \
--with-pic=yes --disable-dependency-tracking
```

```
$(OBJS): ${LIBFFI}
```

```
$(LIBFFI):
```

```
@mkdir -p ${LIBFFI_BUILD_DIR}
```

```
@if [! -f ${LIBFFI_BUILD_DIR}/Makefile]; then \
 echo "Configuring libffi"; \
 cd ${LIBFFI_BUILD_DIR} && \
 /usr/bin/env CC="${CC}" LD="${LD}" CFLAGS="${LIBFFI_CFLAGS}" GREP_OPTIONS="" \
 ./configure --disable-static --with-pic=yes --disable-dependency-tracking
```



```
/bin/sh ${LIBFFI_CONFIGURE} ${LIBFFI_HOST} > /dev/null; \
fi
@cd ${LIBFFI_BUILD_DIR} && ${MAKE}
```

## 2.263 libsss\_sudo 1.15.2-50.el7\_4.8

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```
-*- makefile -*-
```

```
#
```

```
Makefile for BSD systems
```

```
#
```

```
INCFLAGS += -I${LIBFFI_BUILD_DIR}/include
```

```
LOCAL_LIBS += ${LIBFFI} -lpthread
```

```
LIBFFI_CFLAGS = ${FFI_MMAP_EXEC} -pthread
```

```
LIBFFI_BUILD_DIR = ${.CURDIR}/libffi-${arch}
```

```
.if ${srcdir} == ""
```

```
LIBFFI_SRC_DIR := ${.CURDIR}/libffi
```

```
.else
```

```
LIBFFI_SRC_DIR := ${srcdir}/libffi
```

```
.endif
```

```
LIBFFI = ${LIBFFI_BUILD_DIR}/.libs/libffi_convenience.a
```

```
LIBFFI_CONFIGURE = ${LIBFFI_SRC_DIR}/configure --disable-static \
--with-pic=yes --disable-dependency-tracking
```

```
$(OBJS): ${LIBFFI}
```

```
$(LIBFFI):
```

```
@mkdir -p ${LIBFFI_BUILD_DIR}
```

```

@if [! -f ${LIBFFI_BUILD_DIR}/Makefile]; then \
 echo "Configuring libffi"; \
 cd ${LIBFFI_BUILD_DIR} && \
 /usr/bin/env CC="${CC}" LD="${LD}" CFLAGS="${LIBFFI_CFLAGS}" GREP_OPTIONS="" \
 /bin/sh ${LIBFFI_CONFIGURE} ${LIBFFI_HOST} > /dev/null; \
fi
@cd ${LIBFFI_BUILD_DIR} && ${MAKE}

```

## 2.264 libvirt-client 3.9.0-14.el7\_5.6

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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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```
-*- makefile -*-
```

```
#
```

```
Makefile for BSD systems
```

```
#
```

```
INCFLAGS += -I${LIBFFI_BUILD_DIR}/include
```

```
LOCAL_LIBS += ${LIBFFI} -lpthread
```

```
LIBFFI_CFLAGS = ${FFI_MMAP_EXEC} -pthread
```

```
LIBFFI_BUILD_DIR = ${.CURDIR}/libffi-${arch}
```

```
.if ${srcdir} == "."
```

```
LIBFFI_SRC_DIR := ${CURDIR}/libffi
.else
LIBFFI_SRC_DIR := ${srcdir}/libffi
.endif
```

```
LIBFFI = ${LIBFFI_BUILD_DIR}/.libs/libffi_convenience.a
LIBFFI_CONFIGURE = ${LIBFFI_SRC_DIR}/configure --disable-static \
--with-pic=yes --disable-dependency-tracking
```

```
$(OBJS): ${LIBFFI}
```

```
$(LIBFFI):
```

```
@mkdir -p ${LIBFFI_BUILD_DIR}
@if [! -f ${LIBFFI_BUILD_DIR}/Makefile]; then \
 echo "Configuring libffi"; \
 cd ${LIBFFI_BUILD_DIR} && \
 /usr/bin/env CC="${CC}" LD="${LD}" CFLAGS="${LIBFFI_CFLAGS}" GREP_OPTIONS="" \
 /bin/sh ${LIBFFI_CONFIGURE} ${LIBFFI_HOST} > /dev/null; \
fi
@cd ${LIBFFI_BUILD_DIR} && ${MAKE}
```

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## 2.265 libvirt-libs 3.9.0-14.el7\_5.6

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```
-*- makefile -*-
```

```
#
```

```
Makefile for BSD systems
```

```
#
```

```
INCFLAGS += -I${LIBFFI_BUILD_DIR}/include
```

```
LOCAL_LIBS += ${LIBFFI} -lpthread
```

```
LIBFFI_CFLAGS = ${FFI_MMAP_EXEC} -pthread
```

```
LIBFFI_BUILD_DIR = ${.CURDIR}/libffi-${arch}
```

```
.if ${srcdir} == "."
```

```
LIBFFI_SRC_DIR := ${.CURDIR}/libffi
```

```
.else
```

```
LIBFFI_SRC_DIR := ${srcdir}/libffi
```

```
.endif
```

```
LIBFFI = ${LIBFFI_BUILD_DIR}/.libs/libffi_convenience.a
```

```
LIBFFI_CONFIGURE = ${LIBFFI_SRC_DIR}/configure --disable-static \
```

```
--with-pic=yes --disable-dependency-tracking
```

```
$(OBJS): ${LIBFFI}
```

```
$(LIBFFI):
```

```
@mkdir -p ${LIBFFI_BUILD_DIR}
```

```
@if [! -f ${LIBFFI_BUILD_DIR}/Makefile]; then \
```

```
echo "Configuring libffi"; \
```

```
cd ${LIBFFI_BUILD_DIR} && \
```

```
/usr/bin/env CC="${CC}" LD="${LD}" CFLAGS="${LIBFFI_CFLAGS}" GREP_OPTIONS="" \
```

```
/bin/sh ${LIBFFI_CONFIGURE} ${LIBFFI_HOST} > /dev/null; \
```

```
fi
```

```
@cd ${LIBFFI_BUILD_DIR} && ${MAKE}
```

## 2.266 libX11 1.6.5 :2.e17

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## 2.269 Logback Classic Module 1.2.3

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## 2.271 logging-log4j 1.2.14

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- \* Jordan Sissel (jordansissel)
- \* Kurt Hurtado (kurtado)
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<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1">

<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">

<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">

<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">

<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='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">
 Toggle navigation

 </button>

 </div>
 </div>
</nav>

```

```

</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
 <div style="line-height:20px; padding-top:5px; float:left">Home » Licenses</div>
 <ul class="nav navbar-nav navbar-right">
 <li class="dropdown">
 About
 <ul class="dropdown-menu" role="menu">
 Overview
 Members
 Process
 Sponsorship
 Glossary
 FAQ
 Contact

 Projects
 <li class="dropdown">
 People
 <ul class="dropdown-menu" role="menu">
 Overview
 Committers
 Meritocracy
 Roles
 Planet Apache

 <li class="dropdown">
 Get Involved
 <ul class="dropdown-menu" role="menu">
 Overview
 Community Development
 ApacheCon

 Download
 <li class="dropdown">
 Support Apache
 <ul class="dropdown-menu" role="menu">
 Sponsorship
 Donations
 Buy Stuff
 Thanks


```

```


 </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...">

 <button class="btn btn-primary" type="button"><span class="glyphicon glyphicon-search" aria-
hidden="true">Search</button>

 </div>
 The Apache Way
 <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute
 ASF Sponsors
 </div>
 </div>
</div>
<div class="container"><p>Apache License
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```
</pre></div></div>
```

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

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

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

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

```


```

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

```
</div>
```

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

```
<h5 class="white">Community</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
Overview
```

```
Conferences
```

```
Summer of Code
```

```
Getting Started
```

```
The Apache Way
```

```
Travel Assistance
```

```
Get Involved
```

```
Community FAQ
```

```

```

```
</div>
```

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

```
<h5 class="white">Innovation</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
Incubator
```

```
Labs
```

```
Licensing
```

```
Licensing FAQ
```

```
Trademark Policy
```

```
Contacts
```

```

```

```
</div>
```

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

```
<h5 class="white">Tech Operations</h5>
```

```
<ul class="list-unstyled white" role="menu">
 Developer Information
 Infrastructure
 Security
 Status
 Contacts

</div>
```

```
<div class="col-sm-2">
 <h5 class="white">Press</h5>
 <ul class="list-unstyled white" role="menu">
 Overview
 ASF News
 Announcements
 Twitter Feed
 Contacts

</div>
```

```
<div class="col-sm-2">
 <h5 class="white">Legal</h5>
 <ul class="list-unstyled white" role="menu">
 Legal Affairs
 Licenses
 Trademark Policy
 Public Records
 Export Information
 License/Distribution FAQ
 Contacts

</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 Apache License, Version 2.0.</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>

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

Contributors:

- \* Colin Surprenant (colinsurprenant)
- \* John E. Vincent (luis)
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- \* James Turnbull (jamtur01)
- \* John E. Vincent (luis)

- \* Jordan Sissel (jordansissel)
- \* Joo Duarte (jsvd)
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Also add information on how to contact you by electronic and paper mail.

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

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

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

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

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

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

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== Licence

This software is available under three licences: the GNU GPL version 2 (or at your option, a later version), the Perl Artistic License, or the MIT License. The licence preferred by me is the MIT licence.

The original Perl MIME::Types was dually originally licensed with the Perl Artistic Licence and the GNU GPL ("the same terms as Perl itself") and given that the Ruby implementation originally hewed pretty closely to the Perl version, I chose to maintain the additional licensing terms.

\* Copyright 20032015 Austin Ziegler.  
\* Adapted from MIME::Types (Perl) by Mark Overmeer.

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=== Perl Artistic License (version 2)

See the file docs/artistic.txt in the main distribution.

=== GNU GPL version 2

See the file docs/COPYING.txt in the main distribution.

```
<!doctype html>
<html>
<head>
<title>jsoup License</title>
<meta name="keywords" content="license, open source, mit">
<meta name="description" content="jsoup is licensed under the MIT open source license">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link type="text/css" rel="stylesheet" href="/rez/style.css">
<script>
(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){
(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');

</script>
</head>
<body class="n1">
<div class="wrap">
<div class="header">
<div class="nav-sections">

<li class="n1-home"><h4>jsoup</h4>
<li class="n1-news">News
<li class="n1-bugs">Bugs
<li class="n1-discussion">Discussion
<li class="n1-download">Download
<li class="n1-api">API Reference
<li class="n1-cookbook">Cookbook
```



```

 <li class="n1-try">Try jsoup

</div>
</div>
<div class="breadcrumb">
 jsoup
 – 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 © 2009 - 2013 Jonathan Hedley (jonathan@hedley.net)</p>
 <p>Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:</p>
 <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p>
 <p>THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</p>
 </div>
 <!-- /col1 -->
 <div class="col2">
 </div>
 <!-- /col2 -->
</div>
<!-- /content-->
<div class="footer">
 jsoup HTML parser © 2009 - 2015
 Jonathan Hedley
</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 (luisis)
- \* Jordan Sissel (jordansissel)
- \* Joo Duarte (jsvd)
- \* Laust Rud Jacobsen (rud)
- \* Nikolay Bryskin (nikicat)
- \* Pete Fritchman (fetep)
- \* Philippe Weber (wiibaa)
- \* Pier-Hugues Pellerin (ph)
- \* Richard Pijnenburg (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.

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Contributors:

- \* Graham Bleach (bleach)
- \* James Turnbull (jamtur01)
- \* John E. Vincent (luisis)
- \* Jordan Sissel (jordansissel)
- \* Kurt Hurtado (kurtado)
- \* Pete Fritchman (fetep)
- \* Philippe Weber (wiibaa)
- \* Pier-Hugues Pellerin (ph)
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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(){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()]),{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_k3snrbsthqot7V7ccRZHS9OkCZkwBv4adtNieIVlbeEU.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">
Skip to main content
</div>

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

<div id="header">

```

```
<div id="logo-floater">
 <div id="branding">

 Open Source Initiative </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">About
the OSI
```

```
<li class="collapsed">The
Open Source Definition
```

```
<li class="collapsed">Open Source Licenses
```

```
<li class="leaf">Working Groups
```

```
<li class="leaf"><a href="/faq" title="Frequently Asked Questions about open source and about the
OSI.">FAQ
```

```
<li class="collapsed">Trademark and
Logo Usage
```

```
<li class="collapsed">Open
Standards
```

```
<li class="leaf"><a href="/osi-open-source-education" title="OSI's Open Source Education Initiative and
```

```

Activities">Open Source Education
<li class="collapsed"><a href="/lists" title="The virtual committees where the OSI's work gets
done">Mailing lists
<li class="collapsed">Getting
Help
<li class="collapsed">Donate to the OSI
<li class="leaf">OSI Individual Membership
<li class="leaf">OSI Store
<li class="collapsed"><a href="/affiliates" title="Home page for OSI's membership scheme for non-profits
and not-for-profits">OSI Affiliate Membership
<li class="leaf">Contact OSI
<li class="leaf">Terms of Service
<li class="last leaf">OSI Corporate Support
 </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">Home</div>

 <div id="tabs-wrapper" class="clearfix">
 <h1 class="with-tabs">The MIT License
(MIT)</h1>
 </div>
 <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

of this software and associated documentation files (the "Software"), to deal

in the Software without restriction, including without limitation the rights

to use, copy, modify, merge, publish, distribute, sublicense, and/or sell

copies of the Software, and to permit persons to whom the Software is

furnished to do so, subject to the following conditions:</p>
<p>The above copyright notice and this permission notice shall be included in


```

all copies or substantial portions of the Software.</p>  
<p>THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR<br />  
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>  
</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>
-->
```

```
| Terms of Service
```

```
</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
ZkBfTFtcAgZJfKNNQg==","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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- \* Nick Ethier (nickethier)
- \* Pier-Hugues Pellerin (ph)
- \* Richard Pijnenburg (electrical)
- \* Suyog Rao (suyograo)

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Contributors:

- \* Aaron Mildenstein (untergeek)
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- \* John Pariseau (ururk)
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The following is a list of people who have contributed ideas, code, bug reports, or in general have helped logstash along its way.

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

## Licensing

Jackson core and extension components may licensed under different licenses.

To find the details that apply to this artifact see the accompanying LICENSE file.

For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

## ## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

```
<!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>
```

```
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```

```
</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">
```

```

```

```
<!-- Home -->
```

```
Foundation
```

```
Projects
```

```
People
```

```
Get Involved
```

```
Download
```

```
Support Apache
```

```


<p>Home » Licenses</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

Version 2.0,
January 2004
</br>
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```

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 <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>

- [Tuscany](http://tuscany.apache.org/ "An SCA based Service Composition Framework")
- [UIMA](http://uima.apache.org/ "Framework and annotators for unstructured information analysis")
- [VCL](http://vcl.apache.org/ "Virtual Computing Lab")
- [Velocity](http://velocity.apache.org/ "A Java Templating Engine")
- [Web Services](http://ws.apache.org/)
- [Whirr](http://whirr.apache.org/ "Libraries for running Cloud Services")
- [Wicket](http://wicket.apache.org/ "Component-based Java Web Application Framework.")
- [Wink](http://wink.apache.org/ "RESTful Web services Framework")
- [Wookie](http://wookie.apache.org/ "Widgets for Applications")
- [Xalan](http://xalan.apache.org/ "XSLT processors in Java and C++")
- [Xerces](http://xerces.apache.org/ "XML parsers in Java, C++ and Perl")
- [XMLBeans](http://xmlbeans.apache.org/ "XML-Java binding tool")
- [XML Graphics](http://xmlgraphics.apache.org/ "Conversion from XML to graphical output")
- [ZooKeeper](http://zookeeper.apache.org/ "Centralized service for maintaining configuration information")

</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 href="http://labs.apache.org/" title="The Innovation Laboratories of the Apache Software
Foundation">Labs
 Legal Affairs
 Public Relations
 Security
 Travel Assistance

</div>

<div class="grid_3">
 <h4>Community</h4>

 People
 Memorials
 Feathercast
 Project Blogs
 PlanetApache

</div>

<div class="grid_3">
 <h4>How It Works</h4>

 Introduction
 Meritocracy
 Structure
 Roles
 Collaboration
 Incubator
 Other entities
 Glossary
 Voting

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

</div>
<div id="copyright" class="container_16">
 <p>Copyright © 1999-2012 The Apache Software Foundation, Licensed under the Apache License, Version 2.0.
Apache and the
Apache feather logo are trademarks of The Apache Software Foundation.</p>
</div>
</body>
</html>

```

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

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- \* 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(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){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("G9z0Bl")},{}],G9z0Bl:[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",["domContent",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()]),{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/system/system.base.css":1, "modules/system/system.menus.css":1, "modules/system/system.messages.css":1, "modules/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, "modules/search/search.css":1, "modules/user/user.css":1, "themes/garland/style.css":1, "themes/garland/print.css":1, "themes/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">
 Skip to main content
</div>

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

 <div id="header">
 <div id="logo-floater">
 <div id="branding">

 Open Source Initiative </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">About
the OSI
<li class="collapsed">The
Open Source Definition
<li class="collapsed">Open Source Licenses
<li class="leaf">Working Groups
<li class="leaf"><a href="/faq" title="Frequently Asked Questions about open source and about the
OSI.">FAQ
<li class="collapsed">Trademark and
Logo Usage
<li class="collapsed">Open
Standards
<li class="leaf"><a href="/osi-open-source-education" title="OSI's Open Source Education Initiative and
Activities">Open Source Education
<li class="collapsed"><a href="/lists" title="The virtual committees where the OSI's work gets
done">Mailing lists
<li class="collapsed">Getting
Help
<li class="collapsed">Donate to the OSI
<li class="leaf">OSI Individual Membership
<li class="leaf">OSI Store
<li class="collapsed"><a href="/affiliates" title="Home page for OSI's membership scheme for non-profits
and not-for-profits">OSI Affiliate Membership
<li class="leaf">Contact OSI
<li class="leaf">Terms of Service
<li class="last leaf">OSI Corporate Support
 </div>
</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">Home</div>

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

```
| Terms of Service
```

```
</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":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_kBNgznuNUWmTWcnfoE.css"
media="all" />
 <link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_Frms3llKkCDMuuCHUzEHGgSAc59B2At_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_k3snrbsthqot7V7ccRZHS9OkCZkwBv4adtNieIVlbEU.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":"4fpo5qSBy3ypLVGvf9lONS5
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">
 Skip to main content
 </div>

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

```



```

<div id="header">
 <div id="logo-floater">
 <div id="branding">

 Open Source Initiative </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">About
the OSI
 <li class="collapsed">The
Open Source Definition
 <li class="collapsed">Open Source Licenses
 <li class="collapsed">Trademark and
Logo Usage
 <li class="leaf"><a href="/faq" title="Frequently Asked Questions about open source and about the
OSI.">FAQ
 <li class="collapsed">Open
Standards

```

```

<li class="leaf"><a href="/osi-open-source-education" title="OSI's Open Source Education Initiative and
Activities">Open Source Education
<li class="collapsed"><a href="/lists" title="The virtual committees where the OSI's work gets
done">Mailing lists
<li class="collapsed">Getting
Help
<li class="collapsed">Donate to the OSI
<li class="leaf">OSI Individual Membership
<li class="collapsed"><a href="/affiliates" title="Home page for OSI's membership scheme for non-profits
and not-for-profits">OSI Affiliate Membership
<li class="leaf">Contact OSI
<li class="last leaf">Terms of Service
 </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">Home</div>

 <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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```

```
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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">
```

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

```
| Terms of Service
```

```
</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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```
-*- 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>
```

```
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0
```

```
1.

```

```


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```
Definitions.
```

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java  
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Version 3, 29 June 2007

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*/

=====

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/*

* hmac.c is derived from:

Network Working Group H. Krawczyk
Request for Comments: 2104 IBM
Category: Informational M. Bellare
 UCSD
 R. Canetti
 IBM
 February 1997

HMAC: Keyed-Hashing for Message Authentication

Status of This Memo

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Appendix -- Sample Code

=====
Parts of nss.c are derived from the Mozilla NSS 3.9.2 source, mozilla/security/nss/cmd/smimertools/cmsutil.c. Therefore:

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2.276 memcached-1.4.15-10.el7_3.1.x86_64

1.4.15 :10.el7_3.1

2.276.1 Available under license :

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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.

Major authors:

Brad Fitzpatrick <brad@danga.com> -- maintainer, original implementations

Anatoly Vorobey <mellon@pobox.com> -- lots of the modern server code

Steven Grimm <sgrimm@facebook.com> -- iov writing (less CPU), UDP mode, non-2.0 slab mantissas, multithread, ...

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2.277 mesa-libEGL 17.2.3 :8.20171019.e17

2.277.1 Available under license :

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

```
"http://www.w3.org/TR/html4/loose.dtd">
```

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

```
<head>
```

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

```
<title>License / Copyright Information</title>
```

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

```
</head>
```

```
<body>
```

```
<div class="header">
```

```
<h1>The Mesa 3D Graphics Library</h1>
```

```
</div>
```

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

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

```
<h1>Disclaimer</h1>
```

```
<p>
```

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vendor.

```
</p>
```

```
<p>
```

Please do not refer to the library as *MesaGL* (for legal reasons). It's just *Mesa* or *The Mesa 3-D graphics library*.

```
</p>
```

```
<p>
```

```
</p>
```

```
<p>
```

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```
>
```

</p>

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<p>

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</p>

<p>

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This allows integration with the XFree86, Xorg and DRI projects.

</p>

<p>

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</p>

<pre>

```
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```

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</p>

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<pre>

| Component | Location | License |
|----------------------|---|-----------------------------|
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| Device drivers | src/mesa/drivers/* | MIT, generally |
| Gallium code | src/gallium/ | MIT |
| Ext headers | include/GL/glext.h
include/GL/glxext.h | Khronos |
| GLX client code | src/glx/ | SGI Free Software License B |
| C11 thread emulation | include/c11/threads*.h | Boost (permissive) |

</pre>

<p>

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</p>

</div>

</body>

</html>

Subject: RE: Question about Mesa MLAA license

From: Jorge Jimenez <iryoku@gmail.com>

Date: 01/08/2013 12:50 PM

To: Tom Callaway <tcallawa@redhat.com>

CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,

Jorge

From: Tom Callaway <tcallawa@redhat.com>

Sent: January 8, 2013 6:49 PM

To: Jorge Jimenez <iryoku@gmail.com>

CC: jorge@iryoku.com

Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:

> Hi Tom,

>

> What we meant with that is that we made an exception for clause 2.

> Instead of clause 2, in the case of the Mesa project, you have to name

> the technique Jimenez's MLAA in the config options of Mesa. We did that

> just to allow them to solve license issues. This exception should be for

> the Mesa project, and any project using Mesa, like Fedora.

>

> We want to widespread usage of our MLAA, so we want to avoid any kind of

> license complications. Hope current one is good for Fedora, if not

> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:

"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option
is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
anti-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default
quality". Is this in compliance with your exception?

Thanks again,

~tom

==

Fedora Project

Subject: RE: Question about Mesa MLAA license

From: Jorge Jimenez <iryoku@gmail.com>

Date: 01/08/2013 12:39 PM

To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2.

Instead of clause 2, in the case of the Mesa project, you have to name

the technique Jimenez's MLAA in the config options of Mesa. We did that

just to allow them to solve license issues. This exception should be for

the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

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The license says:

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- * "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
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- * Only for use in the Mesa project, this point 2 is filled by naming the
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OR

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Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

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/* Legal characters in GLSL are:

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* Identifier characters:

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* Letters a-z

* Letters A-Z

* Underscore

* Numbers 0-9

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* Punctuation:

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* Period, plus, dash, slash, asterisk, percent, angled brackets,

* square brackets, parentheses, braces, caret, vertical bar,

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* ampersand, tilde, equals, exclamation point, colon, semicolon,
* comma, and question mark
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* Space, horizontal tab, vertical tab, form feed, carriage-return,
* and line-feed.
*
* [GLSL Language Specification 4.30.6, section 3.1]
*
* In this file, we test each of these in turn as follows:
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# (C) Copyright IBM Corporation 2004
# All Rights Reserved.
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# Permission is hereby granted, free of charge, to any person obtaining a
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# FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
# IN THE SOFTWARE.
#
# Authors:
# Ian Romanick <idr@us.ibm.com>

bsd_license_template = """"%s
All Rights Reserved.

```

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2.278 mesa-libGL 17.2.3 :8.20171019.el7

2.278.1 Available under license :

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html lang="en">
<head>
<meta http-equiv="content-type" content="text/html; charset=utf-8">
<title>License / Copyright Information</title>
<link rel="stylesheet" type="text/css" href="mesa.css">
</head>
<body>

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

<iframe src="contents.html"></iframe>
<div class="content">

<h1>Disclaimer</h1>

<p>
Mesa is a 3-D graphics library with an API which is very similar to
that of <a href="https://www.opengl.org/">OpenGL</a>.*
To the extent that Mesa utilizes the OpenGL command syntax or state
machine, it is being used with authorization from <a
href="https://www.sgi.com/">Silicon Graphics,
Inc.</a>(SGI). However, the author does not possess an OpenGL license
from SGI, and makes no claim that Mesa is in any way a compatible
replacement for OpenGL or associated with SGI. Those who want a
```

licensed implementation of OpenGL should contact a licensed vendor.

</p>

<p>

Please do not refer to the library as `MesaGL` (for legal reasons). It's just `Mesa` or `The Mesa 3-D graphics library`.

</p>

<p>

* OpenGL is a trademark of Silicon Graphics Incorporated.

</p>

License / Copyright Information

<p>

The Mesa distribution consists of several components. Different copyrights and licenses apply to different components.

For example, the GLX client code uses the SGI Free Software License B, and some of the Mesa device drivers are copyrighted by their authors.

See below for a list of Mesa's main components and the license for each.

</p>

<p>

The core Mesa library is licensed according to the terms of the MIT license. This allows integration with the XFree86, Xorg and DRI projects.

</p>

<p>

The default Mesa license is as follows:

</p>

<pre>

```
Copyright (C) 1999-2007 Brian Paul All Rights Reserved.
```

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS

OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

</pre>

<h1>Attention, Contributors</h1>

<p>

When contributing to the Mesa project you must agree to the licensing terms of the component to which you're contributing.

The following section lists the primary components of the Mesa distribution and their respective licenses.

</p>

<h1>Mesa Component Licenses</h1>

<pre>

| Component | Location | License |
|----------------------|--|-----------------------------|
| Main Mesa code | src/ mesa/ | MIT |
| Device drivers | src/ mesa/ drivers/ * | MIT, generally |
| Gallium code | src/ gallium/ | MIT |
| Ext headers | include/ GL/ glxext.h
include/ GL/ glxext.h | Khronos |
| GLX client code | src/ glx/ | SGI Free Software License B |
| C11 thread emulation | include/ c11/ threads*.h | Boost (permissive) |

</pre>

<p>

In general, consult the source files for license terms.

</p>

</div>

</body>

</html>

Subject: RE: Question about Mesa MLAA license

From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
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CC: jorge@iryoku.com
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Okay, a few more questions:

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"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option
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==

Fedora Project

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Fedora Project

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* ampersand, tilde, equals, exclamation point, colon, semicolon,
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the Software is furnished to do so, subject to the following conditions:

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FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IN NO EVENT SHALL
IBM AND/OR ITS SUPPLIERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING

```
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# IN THE SOFTWARE.
#
# Authors:
# Ian Romanick <idr@us.ibm.com>
```

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bsd_license_template = """"%s
All Rights Reserved.
```

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The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.

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IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IN NO EVENT SHALL
%s,
AND/OR THEIR SUPPLIERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF
OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE."""
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2.279 mesa-libglapi 17.2.3 :8.20171019.e17

2.279.1 Available under license :

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html lang="en">
<head>
<meta http-equiv="content-type" content="text/html; charset=utf-8">
<title>License / Copyright Information</title>
<link rel="stylesheet" type="text/css" href="mesa.css">
</head>
<body>

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</div>

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```

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<p>

Mesa is a 3-D graphics library with an API which is very similar to that of [OpenGL](https://www.opengl.org/).* To the extent that Mesa utilizes the OpenGL command syntax or state machine, it is being used with authorization from [Silicon Graphics, Inc.](https://www.sgi.com/) (SGI). However, the author does not possess an OpenGL license from SGI, and makes no claim that Mesa is in any way a compatible replacement for OpenGL or associated with SGI. Those who want a licensed implementation of OpenGL should contact a licensed vendor.

</p>

<p>

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</p>

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</p>

<h1>Mesa Component Licenses</h1>

<pre>

| Component | Location | License |
|-----------------|--|-----------------------------|
| Main Mesa code | src/ mesa/ | MIT |
| Device drivers | src/ mesa/ drivers/ * | MIT, generally |
| Gallium code | src/ gallium/ | MIT |
| Ext headers | include/ GL/ glxext.h
include/ GL/ glxext.h | Khronos |
| GLX client code | src/ glx/ | SGI Free Software License B |

```
C11 thread    include/c11/threads*.h Boost (permissive)
emulation
</pre>
```

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</div>
</body>
</html>

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Fedora Project

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Fedora Project

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2.280 mibble-mibs 2.9.2

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* @author Mikael Grev, MiG InfoCom AB

* Date: 2006-sep-08

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2.283 minlog 1.2

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2.287 moment 2.9.0

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2.289 mongo-java-driver 3.7.1

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2.294 munch 2.2.0

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2.295 netaddr 0.7.19

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2.296 netifaces 0.10.6

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netifaces 0.10.6

=====

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

1. What is this?

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

This package attempts to solve that problem.

2. How do I use it?

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

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

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

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

```
>>> import netifaces
```

Then if you enter

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

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

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

```
>>> netifaces.ifaddresses('lo0')
{18: [{'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.

4. What license is this under?

It's an MIT-style license. Here goes:

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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.

2.297 netty 4.0.36

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```
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2.305 openpyxl 2.4.0 :a1

2.306 openssh-clients 7.4p1

2.307 openssh-server 7.4p1

2.308 openssl 1.0.2k :16.el7

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2.310 openstacksdk 0.11.3

2.310.1 Available under license :

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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

ZAQAR_BRANCH=stable/OPENSTACK_VERSION

Enable Swift

enable_service s-proxy

```

enable_service s-object
enable_service s-container
enable_service s-account

# Disable Nova Network and enable Neutron
disable_service n-net
enable_service q-svc
enable_service q-agt
enable_service q-dhcp
enable_service q-l3
enable_service q-meta
enable_service q-metering

# Enable Zaqar
enable_plugin zaqar https://github.com/openstack/zaqar
enable_service zaqar-server

# Enable Heat
enable_service h-eng
enable_service h-api
enable_service h-api-cfn
enable_service h-api-cw

# Automatically download and register a VM image that Heat can launch
# For more information on Heat and DevStack see
# https://docs.openstack.org/heat/latest/getting_started/on_devstack.html
IMAGE_URL_SITE="http://download.fedoraproject.org"
IMAGE_URL_PATH="/pub/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()`, `available_floating_ip()`, `create_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 an OpenStack project aimed at providing a complete software development kit for the programs which make up the OpenStack community. It is a set of Python-based libraries, documentation, examples, and tools released under the Apache 2 license.

Contribution Mechanics

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

contributing

Contacting the Developers

IRC

The developers of this project are available in the

``#openstack-sdks <http://webchat.freenode.net?channels=%23openstack-sdks>`` channel on Freenode. This channel includes conversation on SDKs and tools within the general OpenStack community, including OpenStackClient as well as occasional talk about SDKs created for languages outside of Python.

Email

The ``openstack-dev <mailto:openstack-dev@openstack.org?subject=[python-openstacksdk]%20Question%20about%20the%20python-openstacksdk>`` mailing list fields questions of all types on OpenStack. Using the ``[python-openstacksdk]`` filter to begin your email subject will ensure that the message gets to SDK developers.

Coding Standards

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

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

coding

Development Environment

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

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

setup

Testing

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

```
.. toctree::
```

testing

Project Layout

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

.. toctree::

layout

Adding Features

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

.. toctree::

:maxdepth: 2

create/resource

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

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

clouds:

test_cloud:

region_name: RegionOne

auth:

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

username: demo

password: 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 `:class:`~openstack.resource.prop`` objects. These act similarly to Python's built-in property objects, but they share only the name - they're not the same.

Properties are set based on the contents of a response body or headers. Based on what your resource returns, you should set ```prop```s to map those those values to ones on your `:class:`~openstack.resource.Resource`` object.

Line 22 sets a prop for ```timestamp```, which will cause the ```Fake.timestamp``` attribute to contain the value returned in an ```X-Timestamp``` header, such as from a ```Fake.head``` request.

Line 24 sets a prop for ```name```, which is a value returned in a body, such as from a ```Fake.get``` request. Note from *line 12* that ```name``` is specified its ```id``` attribute, so when this resource is populated from a response, ```Fake.name``` and ```Fake.id``` are the same value.

Line 26 sets a prop which contains an alias. ```Fake.value``` will be set when a response body contains a ```value```, or when a header contains ```X-Resource-Value```.

Line 28 specifies a type to be checked before sending the value in a request. In this case, we can only set ```Fake.cool``` to either ```True``` or ```False```, otherwise a `TypeError` will be raised if the value can't be converted to the expected type.

Documentation

We use Sphinx's ```autodoc``` feature in order to build API documentation for each resource we expose. The attributes we override from `:class:`~openstack.resource.Resource`` don't need to be documented, but any `:class:`~openstack.resource.prop`` attributes must be. All you need to do is add a comment **above** the line to document, with a colon following the pound-sign.

Lines 21, 23, 25, and 27-28 are comments which will then appear in the API documentation. As shown in *lines 27 & 28*, these comments can span multiple lines.

Apache 2 header omitted for brevity

```
from openstack import service_filter
```

```

class FakeService(service_filter.ServiceFilter):
    """The fake service."""

    valid_versions = [service_filter.ValidVersion('v2')]

    def __init__(self, version=None):
        """Create a fake service."""
        super(FakeService, self).__init__(service_type='fake', version=version)
# Apache 2 header omitted for brevity

from openstack.fake import fake_service
from openstack import resource

class Fake(resource.Resource):
    resource_key = "resource"
    resources_key = "resources"
    base_path = "/fake"
    service = fake_service.FakeService()

    allow_create = True
    allow_get = True
    allow_update = True
    allow_delete = True
    allow_list = True
    allow_head = True

    #: The transaction date and time.
    timestamp = resource.Header("x-timestamp")
    #: The name of this resource.
    name = resource.Body("name", alternate_id=True)
    #: The value of the resource. Also available in headers.
    value = resource.Body("value", alias="x-resource-value")
    #: Is this resource cool? If so, set it to True.
    #: This is a multi-line comment about cool stuff.
    cool = resource.Body("cool", type=bool)

```

Creating a Development Environment

=====

Required Tools

Python

As the OpenStack SDK is developed in Python, you will need at least one version of Python installed. It is strongly preferred that you have at least one 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 $HOME/envs/sdk3/bin/activate
(sd3)$
```

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 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` [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/acrc/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 :)
```

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- * `Discussion from Icehouse Summit <<https://etherpad.openstack.org/p/icehouse-oslo-i18n-policies>>` __
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2.322 pacemaker-cli 1.1.14

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2.324 pam_tacplus 1.3.9

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2.326 Parsley-min 2.0.6

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2.327 patch 2.7.1 :10.e17_5

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2.329 pcap4j 1.6.0

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2.330 pcs 0.9.162 :5.el7.centos.1

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2.331 perl 5.16.3 :294.e17_6

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```
use strict;  
use lib 't/lib';  
use MBTest;
```

```

use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#-----#
# Create test distribution
#-----#

{
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'perl'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',
    "license 'perl' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
    "META license URL is correct"
);

}

{
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );

```

```

is( $mb->license, 'VaporWare',
    "license 'VaporWare' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/",
    "META license URL is correct"
);

}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2
This module is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
From f5488561bdaab57380bf07e8e66778503a41aca3 Mon Sep 17 00:00:00 2001
From: Father Chrysostomos <sprout@cpan.org>
Date: Sun, 23 Sep 2012 12:42:15 -0700
Subject: [PATCH] =?UTF-8?q?Don=E2=80=99t=20leak=20if=20hh=20copying=20dies?=-
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

```

When %^H is copied on entering a new scope, if it happens to have been tied it can die. This was resulting in leaks, because no protections were added to handle that case.

The two things that were leaking were the new hash in hv_copy_hints_hv and the new value (for an element) in newSVsv.

By fixing newSVsv itself, this also fixes any potential leaks when other pieces of code call newSVsv on explosive values.

Petr Písar: Ported to 5.16.3

```

hv.c      | 6 ++++++
sv.c      | 7 +++++-
t/op/svleak.t | 22 ++++++
3 files changed, 31 insertions(+), 4 deletions(-)

```

```

diff --git a/hv.c b/hv.c
index 3c35341..29d6352 100644
--- a/hv.c
+++ b/hv.c
@@ -1440,6+1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
    const I32 riter = HvRITER_get(ohv);

```

```

HE * const eiter = HvEITER_get(ohv);

+ ENTER;
+ SAVEFREESV(hv);
+
while (hv_max && hv_max + 1 >= hv_fill * 2)
    hv_max = hv_max / 2;
HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
}
HvRITER_set(ohv, riter);
HvEITER_set(ohv, eiter);
+
+ SvREFCNT_inc_simple_void_NN(hv);
+ LEAVE;
}
hv_magic(hv, NULL, PERL_MAGIC_hints);
return hv;
diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644
--- a/sv.c
+++ b/sv.c
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_ register SV *const old)
Perl_ck_warner_d(aTHX_ packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");
return NULL;
}
+ /* Do this here, otherwise we leak the new SV if this croaks. */
+ SvGETMAGIC(old);
new_SV(sv);
- /* SV_GMAGIC is the default for sv_setv()
- SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
+ /* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */
- sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+ sv_setsv_flags(sv, old, SV_NOSTEAL);
return sv;
}

diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
or skip_all("XS::APItest not available");
}

-plan tests => 23;
+plan tests => 24;

```

```

# run some code N times. If the number of SVs at the end of loop N is
# greater than (N-1)*delta at the end of loop 1, we've got a leak
@@ -176,3 +176,23 @@ leak(2, 0, sub {
    each %$h;
    undef $h;
}, 'tied hash iteration does not leak');
+
+# [perl #107000]
+package hhtie {
+  sub TIEHASH { bless [] }
+  sub STORE   { $_[0][0]{$_[1]} = $_[2] }
+  sub FETCH   { die if $explosive; $_[0][0]{$_[1]} }
+  sub FIRSTKEY { keys %{$_[0][0]}; each %{$_[0][0]} }
+  sub NEXTKEY  { each %{$_[0][0]} }
+}
+leak(2,!!$Config{mad}, sub {
+  eval q`
+  BEGIN {
+    $hhtie::explosive = 0;
+    tie %^H, hhtie;
+    $^H{foo} = bar;
+    $hhtie::explosive = 1;
+  }
+  { 1; }
+ `;
+}, 'hint-hash copying does not leak');
--

```

1.8.1.4

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```
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```

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```

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abstract: 'Build and install Perl modules'

author:

- 'Ken Williams <kwilliams@cpan.org>'

- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."

build_requires:

File::Temp: 0.15

Test::Harness: 3.16

Test::More: 0.49

generated_by: 'Module::Build version 0.3608'

license: gpl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: Module-Build

resources:

MailingList: <mailto:module-build@perl.org>

license: <http://dev.perl.org/licenses/>

repository: <http://github.com/dagolden/module-build/>

version: 3

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

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2.332 perl-constant-boolean 0.02 :9.el7

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```
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```

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Ty Coon, President of Vice

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2.333 perl-Getopt-Long 2.40 :3.el7

2.334 perl-Git 1.8.3.1-14.el7_5

2.335 perl-Net-Pcap 0.17 :7.el7

2.336 perl-Net-RawIP 0.25 :11.el7

2.337 perl-Sys-Syslog 0.33 :3.el7

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2.340 php 5.4.16-43.el7_4.1

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```

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```
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```

```
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```

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```
# -*- makefile -*-
```

```
#
```

```
# Makefile for BSD systems
```

```
#
```

```
INCFLAGS += -I${LIBFFI_BUILD_DIR}/include
```

```
LOCAL_LIBS += ${LIBFFI} -lpthread
```

```
LIBFFI_CFLAGS = ${FFI_MMAP_EXEC} -pthread
```

```
LIBFFI_BUILD_DIR = ${.CURDIR}/libffi-${arch}
```

```
.if ${srcdir} == "."
```

```
LIBFFI_SRC_DIR := ${.CURDIR}/libffi
```

```
.else
```

```
LIBFFI_SRC_DIR := ${srcdir}/libffi
```

```
.endif
```

```
LIBFFI = ${LIBFFI_BUILD_DIR}/.libs/libffi_convenience.a
```

```
LIBFFI_CONFIGURE = ${LIBFFI_SRC_DIR}/configure --disable-static \  
--with-pic=yes --disable-dependency-tracking
```

```
$(OBJS): ${LIBFFI}
```

```
$(LIBFFI):
```

```
@mkdir -p ${LIBFFI_BUILD_DIR}
```

```
@if [ ! -f ${LIBFFI_BUILD_DIR}/Makefile ]; then \  
  echo "Configuring libffi"; \  
  cd ${LIBFFI_BUILD_DIR} && \  
  /usr/bin/env CC="${CC}" LD="${LD}" CFLAGS="${LIBFFI_CFLAGS}" GREP_OPTIONS="" \  
  /bin/sh ${LIBFFI_CONFIGURE} ${LIBFFI_HOST} > /dev/null; \  
fi
```

```
fi
```

```
@cd ${LIBFFI_BUILD_DIR} && ${MAKE}
```

2.341 php-cli 5.4.16-43.el7_4.1

2.342 php-common 5.4.16-43.el7_4.1

2.343 php-pecl-jsonc 1.3.9 :1.el7

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2.344 php-pecl-mongo 1.6.14 :1.e17

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```
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+-----+
| PHP Version 5                |
+-----+
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+-----+
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| license@php.net so we can mail you a copy immediately. |
+-----+
| Author: Omar Kilani <omar@php.net> |
+-----+
*/
```

mcon/contrib/md5.c:

```
/*
* This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.
* MD5 Message-Digest Algorithm (RFC 1321).
*
* Homepage:
* 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 is a heavily cut-down "BSD license".)
*
* This differs from Colin Plumb's older public domain implementation in that
* no exactly 32-bit integer data type is required (any 32-bit or wider
* unsigned integer data type will do), there's no compile-time endianness
* configuration, and the function prototypes match OpenSSL's. No code from
* Colin Plumb's implementation has been reused; this comment merely compares
* the properties of the two independent implementations.
*
* The primary goals of this implementation are portability and ease of use.
* It is meant to be fast, but not as fast as possible. Some known
* optimizations are not included to reduce source code size and avoid
* compile-time configuration.
*/
```

mcon/contrib/strndup.c:

```
/*
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 *
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 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
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*/
```

2.345 php-process 5.4.16-43.el7_4.1

2.346 php-xml 5.4.16-43.el7_4.1

2.347 picocontainer 2.13.5

2.348 plymouth 0.8.9

:0.31.20140113.el7.centos

2.348.1 Available under license :

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2.350 poi-ooxml-3.14 3.14

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2.351 poi-ooxml-schemas 3.14

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

[2] <http://www.ecma-international.org/memento/Ecmabylaws.htm>

[3] <http://www.microsoft.com/openspecifications/en/us/programs/osp/default.aspx>

[4] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/Patent%20statements%20ok/ECMA-376%20Edition%202%20Microsoft%20Patent%20Declaration.pdf>

[5] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/Patent%20statements%20ok/ECMA-376%20Adobe%20Patent%20Declaration.pdf>

JUnit test library (junit-4.11.jar)

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2.352 procps-ng 3.3.10-17.el7_5.2

2.353 prometheus 2.2.1

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fuzzy

<https://github.com/mattyork/fuzzy>

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Protocol Buffers for Go with Gadgets

<http://github.com/gogo/protobuf/>

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Go support for leveled logs, analogous to

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Support for streaming Protocol Buffer messages for the Go language (golang).
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2.356 pymongo 3.3.1

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

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

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

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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
2.7	2.6	2010	PSF	yes

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History and License

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.

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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	2002-2003	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	2003	PSF	yes	
+-----+					
2.3.3	2.3.2	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	
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2.6	2.5	2008	PSF	yes	
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Mersenne Twister

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

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

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Sockets

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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MD5 message digest algorithm

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ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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

- 2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
- 1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
- 1999-10-18 lpd Fixed typo in header comment (`ansi2knr` rather than `md5`);

added conditionalization for C++ compilation from Martin
Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between `ascii` and `binary`. This results in a 1000-fold speedup. The `C` version is still 5 times faster, though.
- Arguments more compliant with Python standard

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strtod and dtoa

The file `:file:`Python/dtoa.c``, which supplies C functions `dtoa` and `strtod` for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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

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

In May 2000, Guido and the Python core development team moved to

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

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2.362 python-carbon 0.9.16 :1.e17

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2.363 python-cinderclient 3.5.0

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=====
CINDERCLIENT Tests
=====

Unit Tests
=====

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

Any proposed code change will be automatically rejected by the OpenStack Jenkins server if the change causes unit test failures.

Running the tests

There are a number of ways to run unit tests currently, and there's a combination of frameworks used depending on what commands you use. The preferred method is to use tox, which calls ostestr via the tox.ini file. To run all tests simply run::

```
tox
```

This will create a virtual environment, load all the packages from test-requirements.txt and run all unit tests as well as run flake8 and hacking checks against the code.

Note that you can inspect the tox.ini file to get more details on the available options and what the test run does by default.

Running a subset of tests using tox

One common activity is to just run a single test, you can do this with tox simply by specifying to just run py27 or py34 tests against a single test::

```
tox -epy27 -- -n cinderclient.tests.unit.v2.test_volumes.VolumesTest.test_attach
```

Or all tests in the test_volumes.py file::

```
tox -epy27 -- -n cinderclient.tests.unit.v2.test_volumes
```

For more information on these options and how to run tests, please see the `ostestr` documentation <<https://docs.openstack.org/os-testr/latest/>>`_.

Run tests wrapper script

In addition you can also use the wrapper script run_tests.sh by simply executing::

```
./run_tests.sh
```

This script is a wrapper around the testr testrunner and the flake8 checker. Note that there has been talk around deprecating this wrapper and this method of testing, it's currently available still but it may be good to get used to using

tox or even ostestr directly.

Documentation is left in place for those that still use it.

Flags

The ``run_tests.sh`` script supports several flags. You can view a list of flags by doing::

```
run_tests.sh -h
```

This will show the following help information::

```
Usage: ./run_tests.sh [OPTION]...
```

```
Run cinderclient's test suite(s)
```

```
-V, --virtual-env      Always use virtualenv. Install automatically if not present
-N, --no-virtual-env   Don't use virtualenv. Run tests in local environment
-s, --no-site-packages Isolate the virtualenv from the global Python environment
-r, --recreate-db      Recreate the test database (deprecated, as this is now the default).
-n, --no-recreate-db   Don't recreate the test database.
-f, --force            Force a clean re-build of the virtual environment. Useful when dependencies have been
added.
-u, --update           Update the virtual environment with any newer package versions
-p, --pep8             Just run PEP8 and HACKING compliance check
-P, --no-pep8         Don't run static code checks
-c, --coverage         Generate coverage report
-d, --debug           Run tests with testtools instead of testr. This allows you to use the debugger.
-h, --help            Print this usage message
--hide-elapsed        Don't print the elapsed time for each test along with slow test list
--virtual-env-path <path> Location of the virtualenv directory
                        Default: $(pwd)
--virtual-env-name <name> Name of the virtualenv directory
                        Default: .venv
--tools-path <dir>     Location of the tools directory
                        Default: $(pwd)
```

Note: with no options specified, the script will try to run the tests in a virtual environment, If no virtualenv is found, the script will ask if you would like to create one. If you prefer to run tests NOT in a virtual environment, simply pass the -N option.

Because ``run_tests.sh`` is a wrapper around testr, it also accepts the same flags as testr. See the documentation for details about these additional flags:

``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
```

2.364 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

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

****Pick a subject area that you care about, that you are familiar with, or that you want to learn about****

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

****Analyze tickets' context and history****

Trac isn't an absolute; the context is just as important as the words.

When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if a core team member hasn't been recently involved in a discussion, then a ticket may not have the support required to get into trunk.

****Start small****

It's easier to get feedback on a little issue than on a big one. See the ``easy pickings`_`.

****If you're going to engage in a big task, make sure that your idea has support first****

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that the core team supports a proposed feature before you go implementing it.

****Be bold! Leave feedback!****

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of the core developers. We can't do it without YOU!

****Err on the side of caution when marking things Ready For Check-in****

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

****Wait for feedback, and respond to feedback that you receive****

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

* **Be rigorous** *

When we say "pep:8, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. `_easy pickings`: <https://code.djangoproject.com/query?status=!closed&easy=1>

.. `_new-contributors-faq`:

FAQ

1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?***

First off, it's not personal. Django is entirely developed by volunteers (even the core developers), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the `|django-developers|` mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?***

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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2.365 python-django-tagging 0.3.1 :11.e17

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Django Tagging

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2.366 python-glanceclient 2.9.1

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2.367 python-keystoneclient 3.15.0

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2.368 python-lxml 3.2.1 :4.e17

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(Avoid deeper levels because they do not render well.)



## CLI Option Guideline

=====

This document describes the conventions of neutron CLI options.

### General conventions

-----

#. Option names should be delimited by a hyphen instead of an underscore.

This is the common guidelines across all OpenStack CLIs.

\* Good: `--ip-version`

\* Not Good: `--ip_version`

#. Use at least one required option for `*-create` command. If all options are optional, we typically use `name` field as a required option.

#. When you need to specify an ID of a resource, it is better to provide another way to specify the resource like `name` or other reasonable field.

#. If an attribute name in API is `foo_id`, the corresponding option should be `--foo` instead of `--foo-id`.

\* It is because we usually support ID and `name` to specify a resource.

#. Do not use `nargs=?` without a special reason.

\* The behavior of `nargs=?` option for python argparse is bit tricky and may lead to unexpected option parsing different from the help message. The detail is described in the :ref:`Background section <background-nargs>` below.

#. (option) Avoid using positional options as much as possible.

\* Positional arguments should be limited to attributes which will be required in the long future.

#. We honor existing options and should keep compatibilities when adding or changing options.

### Options for boolean value

-----

Use the form of `--option-name {True|False}`.

\* For a new option, it is recommended.

\* It is suggested to use `common.utils.add_boolean_argument` in an

implementation. It allows ```true``/``false``` in addition to ```True``/``False```.

\* For existing options, migration to the recommended form is not necessarily required. All backward-compatibility should be kept without reasonable reasons.

#### Options for dict value

-----

Some API attributes take a dictionary.

```--foo key1=val1,key2=val2``` is usually used.

This means ```{"key1": "val1", "key2": "val2"}``` is passed in the API layer.

Examples:

- \* ```--host-route destination=CIDR,nextHop=IP_ADDR``` for a subnet
- \* ```--fixed-ip subnet_id=SUBNET,ip_address=IP_ADDR``` for a port.

#### Options for list value

-----

Some attributes take a list.

In this case, we usually use:

- \* Define an option per element (Use a singular form as an option name)
- \* Allow to specify the option multiple times

For Example, ```port-create``` has ```--security-group``` option.

```--security-group SG1 --security-group SG2``` generates ```{"security_groups": ["SG1", "SG2"]}``` in the API layer.

This convention applies to a case of a list of dict.

```--allocation-pool``` and ```--host-route``` for a subnet are examples.

#### Compatibility with extra arguments

-----

\*`extra arguments`\* supports various types of option specifications.  
At least the following patterns needs to be considered when defining a new option. For more detail, see `:ref:`cli_extra_arguments``.

- \* Normal options with value
- \* Boolean options : ```--foo True```, ```--bar=False```
- \* List options : ```--bars list=true val1 val2```, ```--bars val1 val2```
- \* Dict options : ```--foo type=dict key1=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>> 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<br>(i.e. neutron stadium) | Yes        | python-neutronclient<br>(``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?\***

-----+

```

=====+=====
=====+
| 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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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
```

## 2.372 python-novaclient 10.1.0

### 2.372.1 Available under license :

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\_\_ <https://git.openstack.org/cgit/openstack/python-novaclient>

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\_\_ <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>

## 2.373 python-ordereddict 1.1 :6.el7

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## 2.374 python-paramiko 2.1.1 :9.e17

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## 2.376 python-pyasn1 0.1.8

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## 2.377 python-pyparsing 2.2.0

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```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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## 2.379 python-suds 0.4.1 :5.e17

### 2.379.1 Available under license :

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Version 3, 29 June 2007

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## 2.380 python-whisper 0.9.16 :1.e17

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## 2.381 python2-boto 2.45.0 :3.el7

### 2.381.1 Available under license :

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# Digital Services, Inc. or its affiliates with respect to your use of  
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# affiliates.
```

## 2.382 python2-crypto 2.6.1 :15.e17

### 2.382.1 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. Litzenger" <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".)

```
=====
```

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dissemination and usage except those imposed by the laws of your
```

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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, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

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

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=====

Regards,  
- Dwayne

--  
Dwayne C. 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: (vmmailmgr-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=OvxqbYnCg7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;  
b=F2h2bFzpqxyKFZ8BhenniyupGw4Zvlekb9BSk91qKU+51W/TkSGBij5YZIhkLQdkQk0qLz5f4g8dT6bOME3sEY1j10hlx0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EJhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTqgB2aU=  
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+mZwRb6rGkDj763caOAl08Ect/qlADW5izXfmVQaDchTbTqmpsJBmQnTQs9iZ+InrG+3UIwtUSGfX7fhEWmI9P/HBzxf9Wp4b3j eo=;  
Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>  
X-YMail-OSG:  
FrK8aWMVM1mFJtLpMGbUbCLjbUQC.i.JkIAKUHSFsFn7t9PbtewAewXJ2uhZGCOIGCX6oVnG3u.CgqzAffY4vZSnfTT8wnCkzZNZ\_g6k.XUc3ipo\_6e.92TXl4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWWJYVYtp50clsUFSHzf7Zbpa8P1Yoe\_xSzf3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11Xonq8h\_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. Litzenger" <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. Litzenger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenger <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".)

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> (though that would be nice).

>

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>

>

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>  
> For the next PyCrypto release, I would like to take steps  
> to move toward a  
> clearer licensing regime. I am asking as many  
> copyright holders as I can  
> find if I can release PyCrypto under something clearer and  
> more standard.  
> Below, I have quoted a public domain dedication that was  
> recommended in  
> Intellectual Property and Open Source: A Practical Guide  
> to Protecting  
> Code\_, by Van Lindberg. I have already contacted A.  
> M. Kuchling, Robey  
> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they  
> have all  
> approved the following dedication for their contributions.  
>  
> I understand that you have made contributions to  
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> behalf, dedicate to the public domain all your  
> contributions to PyCrypto,  
> with the following notice?  
>  
>  
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>  
> =====  
>  
> Regards,  
> - Dwayne  
>  
> -- Dwayne C. Litzberger <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. Litzenger <dlitz@dlitz.net> wrote:

>

>> From: Dwayne C. Litzenger <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  
>>     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. 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+1BHg0YD85gsntlDzkcQtb+BR/xAvJ5zKyA  
J/Mn/I+I6ekJQ3juh8IPHLAduOXM9Rtguas/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. Litzenger" <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".)

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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.

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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.

=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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Regards,  
- Dwayne

--=20

Dwayne C. Litzberger <dlitz@dlitz.net>

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

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

--YiEDa0DAkWCtVeE4

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

Content-Description: Digital signature

Content-Disposition: inline

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

Version: GnuPG v1.4.5 (GNU/Linux)

iEYEARECAAYFAkko52IACgkQHbG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ

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: (vmmailmgr-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. Litzenberger" <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. Litzenberger" <dlitz@dlitz.net>

To: Barry A Warsaw <barry@python.org>  
Subject: PyCrypto license clarification  
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; 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. Litzenger <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; delp=yes

Content-Transfer-Encoding: quoted-printable

Mime-Version: 1.0 (Apple Message framework v930.3)

Subject: Re: PyCrypto license clarification

Date: Mon, 2 Mar 2009 11:29:34 -0500

References: <20090301024509.GA13195@rivest.dlitz.net>

X-Pgp-Agent: GPGMail d55 (v55, Leopard)

X-Mailer: Apple Mail (2.930.3)

Status: RO  
Content-Length: 869

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

Hash: SHA1

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

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

> 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  
evkInSJQAcVHIznVIVeR5IXgvDUMakZjU4SOV7MqkhsKA9Ilet7PaD9VSYgn3ra5  
gElwI2DQDoOy5GExMMm74gqrrb1PCCbCRmpaYNo+DZohwHkeFBjwDRA3wItOrH7  
SK4w9VBjtfY=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. Litzenberger <dlitz@dlitz.net>

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

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <paulswartz@gmail.com>

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

Delivered-To: dwon@rivest.dlitz.net

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

by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with 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=gyTqkRhKIHadFKIZCBWsRbnMNVdQ1PWIJbyC0EvxPskaoHr3HAR96MWQNBePu/40Ac

Vn55qllqTdom4e9zlUEE6MwZo9kqi/Qw0L/SLib0DIQeNqo/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

1omJLM1eQ2XyuZA73jem+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> wrote:  
 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=
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 > =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=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. Litzenger" <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,  
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>> I am the new maintainer of the Python Cryptography Toolkit, and I am  
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>That's great!  
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>> 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. Litzberger <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. Litzberger" <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".)

```
=====
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](http://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.

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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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. 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: (vmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600

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

Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97

Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])

by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C

for <dlitz@dlitz.net>; Tue, 5 May 2009 01:08:30 -0600 (CST)

Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000

Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])

(envelope-sender <joris@bontje.nl>)

by 10.170.1.96 (qmail-ldap-1.03) with SMTP

for <>; 5 May 2009 07:08:25 -0000  
Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)  
id 9BE9B15759B; Tue, 5 May 2009 09:08:25 +0200 (CEST)  
Received: from firewall66.interaccess.nl (firewall66.interaccess.nl  
[193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;  
Tue, 05 May 2009 09:08:25 +0200  
Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>  
Date: Tue, 05 May 2009 09:08:25 +0200  
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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The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

```
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```

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

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> --amk (www.amk.ca)  
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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:

> Hi Dwayne,

>

> Thanks for taking over the PyCrypto library and putting in the required

> effort to keep this going.

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>> =====  
>>  
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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:

> 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  
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> the

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> for  
> 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  
SH8AoLJgaq1Ili7/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                 |

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ACCEPT

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~~~~~

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

LEGAL/copy/LICENSE.orig).

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

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

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2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)
3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).
4. Removing some modules altogether without replacing them.

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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. Litzenberger" <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

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#####

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/aq2fi/HNjyrwnqFnUI0uqwpOrQGbz8Y+SGpVh1gKqy1Ju45L+doq
sxbzCOpjgRv2zDdNR/2SnFmDWQXv8dSeonwIHpQDft8/LVA/gHiTDmteQIOhJQ6o
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:

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- (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.

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In addition, the code must not be of U.S. origin.

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=== EOF ===

00INDEX - This file

tsu-notify.mbox - Notification sent per U.S. export regulations

copy/ - Copyright info & public-domain dedications
From dlitz@dlitz.net Sat Feb 28 23:24:14 2009
Date: Sat, 28 Feb 2009 23:24:14 -0500
From: "Dwayne C. 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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--amk (www.amk.ca)

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

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

=====
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=====

Regards,
- Dwayne

--

Dwayne C. Litzenger <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: (vmmailmgr-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/ksRqukHwaOZyJQBU4Yvt5mI20U6mI/g=;

b=oMjI22IIXYiJKge2zNjW3rRiUi9LqFXmey5Wp0pLItuNF+X3duyfhopTuBAKw7MwVY

B5E6VQuGVEyzBbNscyVgq6DhQiQtouCLZymSViobmuDmKn5DtUKoxpDk0xCxQmHYaas

L9/A6D3/J66kKrNBgX9mc0GPcZTviVFYkPR0Q=

DomainKey-Signature: a=rsa-sha1; c=noaws;
d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references:date:message-id:subject:from:to
:content-type;
b=Ym7CStuDEfJKay1AJyWZkZmJA1lnTcwCG6akBHAXLld8ht6PFcmIsffzZG8hJCIVJ8
vljqcT+G6cywVTBw1pyGX7ECYzr0+vhGvgdpACGrS24zikHfpSSd5GFogzXaLVvGVH8p
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. Litzenger" <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

> 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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> not have to make source available or contribute your changes back
> (though that would be nice).
>
> --amk (www.amk.ca)
>
> For the next PyCrypto release, I would like to take steps to move toward a
> clearer licensing regime. I am asking as many copyright holders as I can
> find if I can release PyCrypto under something clearer and more standard.
> Below, I have quoted a public domain dedication that was recommended in
> _Intellectual Property and Open Source: A Practical Guide to Protecting
> Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey
> Pointer, and Wim Lewis, and they have all approved the following text for
> their contributions.
>
> I understand that you have made contributions to PyCrypto. May I, on your
> behalf, dedicate to the public domain all your contributions to PyCrypto,
> with the following notice?
>
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> =====
>
> Regards,
> - Dwayne
>
> --
> Dwayne C. Litzenger <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.

I don't really check this email address all that often, please direct any further correspondence to jeethu@jeethu-rao.com On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenger <dlitz@dlitz.net> wrote:

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

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

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```

Regards,

- Dwayne

--

Dwayne C. Litzenger <dclitz@dclitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 A04A24 928C EC13 39C2 5CF7

Jeethu Rao

--000e0cd209d0e5a3d40464a23054--

2.383 python2-cryptography 1.7.2

2.384 python2-psutil 5.2.2

2.384.1 Available under license :

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2.385 python2-rsa 3.4.1 :1.e17

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2.386 python2-simplejson 3.10.0 :1.e17

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2.387 pytz 2015.4

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2.388 pyudev 0.21 :0dev_20160822-py2.6

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2.390 qemu-img 1.5.3-156.el7_5.3

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```
# -*- makefile -*-
```

```
#
```

```
# Makefile for BSD systems
```

```
#
```

```
INCFLAGS += -I${LIBFFI_BUILD_DIR}/include
```

```
LOCAL_LIBS += ${LIBFFI} -lpthread
```

```
LIBFFI_CFLAGS = ${FFI_MMAP_EXEC} -pthread
```

```
LIBFFI_BUILD_DIR = ${.CURDIR}/libffi-${arch}
```

```
.if ${srcdir} == "."
```

```
LIBFFI_SRC_DIR := ${.CURDIR}/libffi
```

```
.else
```

```
LIBFFI_SRC_DIR := ${srcdir}/libffi
```

```
.endif
```

```
LIBFFI = ${LIBFFI_BUILD_DIR}/.libs/libffi_convenience.a
```

```
LIBFFI_CONFIGURE = ${LIBFFI_SRC_DIR}/configure --disable-static \
```

```
--with-pic=yes --disable-dependency-tracking
```

```
$(OBJS): ${LIBFFI}
```

```
$(LIBFFI):
```

```
@mkdir -p ${LIBFFI_BUILD_DIR}
```

```
@if [ ! -f ${LIBFFI_BUILD_DIR}/Makefile ]; then \
```

```
echo "Configuring libffi"; \
```

```
cd ${LIBFFI_BUILD_DIR} && \
```

```
/usr/bin/env CC="${CC}" LD="${LD}" CFLAGS="${LIBFFI_CFLAGS}" GREP_OPTIONS="" \
```

```
/bin/sh ${LIBFFI_CONFIGURE} ${LIBFFI_HOST} > /dev/null; \
```

```
fi
```

```
@cd ${LIBFFI_BUILD_DIR} && ${MAKE}
```

2.391 quartz 1.6.2

2.391.1 Available under license :

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

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

2.398 rpm-libs 4.11.3

2.399 rpm-python 4.11.3

2.400 ruby 2.0.0.648-33.el7_4

2.401 ruby 2.0.0.648 :34.el7_6

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regparse.[ch]:

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enc/cp949.c

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enc/iso_8859_8.c
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random.c

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A C-program for MT19937, with initialization improved 2002/2/10.

Coded by Takuji Nishimura and Makoto Matsumoto.

This is a faster version by taking Shawn Cokus's optimization,

Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using `init_genrand(seed)`

or `init_by_array(init_key, key_length)`.

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

absence of any warranty; and give all recipients a copy of this License along with the Program.

</para>

<para>

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

</para>

<bridgehead renderas="sect1">

5. Conveying Modified Source Versions.

</bridgehead>

<para>

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

</para>

<orderedlist numeration="loweralpha">

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>
</orderedlist>

<para>

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

</para>

<bridgehead renderas="sect1">

6. Conveying Non-Source Forms.

</bridgehead>

<para>

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

</para>

<orderedlist numeration="loweralpha">

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

object code with such an offer, in accord with subsection 6b.

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

</orderedlist>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in <acronym>ROM</acronym>).

</para>

<para>

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

</para>

<para>

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

</para>

<bridgehead renderas="sect1">

7. Additional Terms.

</bridgehead>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<orderedlist numeration="loweralpha">

<listitem>

<para>

Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

</para>

</listitem>

<listitem>

<para>

Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

</para>

</listitem>

<listitem>

<para>

Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

</para>

</listitem>

<listitem>

<para>

Limiting the use for publicity purposes of names of licensors or authors of the material; or

</para>

</listitem>

<listitem>

<para>

Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

</para>

</listitem>

</listitem>

<para>

Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

</para>

</listitem>

</orderedlist>

<para>

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

</para>

<para>

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

</para>

<para>

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

</para>

<bridgehead renderas="sect1">

8. Termination.

</bridgehead>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<bridgehead renderas="sect1">

9. Acceptance Not Required for Having Copies.

</bridgehead>

<para>

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

</para>

<bridgehead renderas="sect1">

10. Automatic Licensing of Downstream Recipients.

</bridgehead>

<para>

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

</para>

<para>

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

</para>

<para>

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</para>

<bridgehead renderas="sect1">

11. Patents.

</bridgehead>

<para>

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</para>

<para>

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</para>

<para>

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor’s essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

</para>

<para>

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

</para>

<para>

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or

(3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

</para>

<para>

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

</para>

<para>

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

</para>

<para>

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</para>

<bridgehead renderas="sect1">

12. No Surrender of Others' Freedom.

</bridgehead>

<para>

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

would be to refrain entirely from conveying the Program.

</para>

<bridgehead renderas="sect1">

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

</bridgehead>

<para>

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

</para>

<bridgehead renderas="sect1">

14. Revised Versions of this License.

</bridgehead>

<para>

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

</para>

<para>

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

</para>

<para>

If the Program specifies that a proxy can decide which future versions of the <acronym>GNU</acronym> General Public License can be used, that proxy’s public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

</para>

<para>

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

</para>

<bridgehead renderas="sect1">

15. Disclaimer of Warranty.

</bridgehead>

<para>

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"; WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

</para>

<bridgehead renderas="sect1">

16. Limitation of Liability.

</bridgehead>

<para>

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

</para>

<bridgehead renderas="sect1">

17. Interpretation of Sections 15 and 16.

</bridgehead>

<para>

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

</para>

<bridgehead>

END OF TERMS AND CONDITIONS

</bridgehead>

<bridgehead renderas="sect1">

How to Apply These Terms to Your New Programs

</bridgehead>

<para>

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

</para>

<para>

To do so, attach the following notices to the program. It is safest to

attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the “copyright” line and a pointer to where the full notice is found.

</para>

<screen>

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

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

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

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

</screen>

<para>

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

</para>

<para>

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

</para>

<screen>

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

This program comes with ABSOLUTELY NO WARRANTY; for details type ‘<literal>show w</literal>’.

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

</screen>

<para>

The hypothetical commands ‘<literal>show w</literal>’ and ‘<literal>show c</literal>’ should show the appropriate parts of the General Public License. Of course, your program’s commands might be different; for a GUI interface, you would use an “about box”.

</para>

<para>

You should also get your employer (if you work as a programmer) or school, if any, to sign a “copyright disclaimer” for the program, if necessary. For more information on this, and how to apply and follow the

<acronym>GNU</acronym> <acronym>GPL</acronym>, see <ulink
url="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</ulink>.

</para>

<para>

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

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

</para>

</appendix>

<?xml version="1.0"?>

<!DOCTYPE appendix PUBLIC "-//Samba-Team//DTD DocBook V4.2-Based Variant V1.0//EN"
"http://www.samba.org/samba/DTD/samba-doc">

<appendix>

<appendixinfo>

<title>GNU General Public License</title>

<pubdate>Version 2, June 1991</pubdate>

<copyright>

<year>1989, 1991</year>

<holder>Free Software Foundation, Inc.</holder>

</copyright>

<legalnotice>

<para>

<address>Free Software Foundation, Inc.

<street>59 Temple Place, Suite 330</street>,

<city>Boston</city>,

<state>MA</state>

<postcode>02111-1307</postcode>

<country>USA</country>

</address>.

</para>

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</para>

</legalnotice>

<releaseinfo> Version 2, June 1991</releaseinfo>

</appendixinfo>

<title>GNU General Public License</title>

<sect1>

<title>Preamble</title>

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This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

</para>

<para> When we speak of free software, we are referring to freedom, not price.

Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

</para>

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

</para>

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

</para>

<para> We protect your rights with two steps:

<orderedlist>

<listitem>

<para> copyright the software, and

</para>

</listitem>

<listitem>

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

</para>

</listitem>

</orderedlist>

</para>

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

</para>

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

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

</para>
<para> The precise terms and conditions for copying, distribution and modification follow.
</para>
</sect1>
<sect1>
<title>TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION</title>
<sect2>
<title>Section 0</title>
<para> This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a
<quote>work based on the Program
</quote> means either
the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term
<quote>modification
</quote>.) Each licensee is addressed as <quote>you</quote>.
</para>
<para> Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.
</para>
</sect2>
<sect2 id="sect1">
<title>Section 1</title>
<para> You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.
</para>
<para> You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
</para>
</sect2>
<sect2 id="sect2">
<title>Section 2</title>
<para> You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of
<link linkend="sect1">Section 1

</link> above, provided

that you also meet all of these conditions:

<orderedlist>

<listitem>

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

</para>

</listitem>

<listitem>

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

</para>

</listitem>

<listitem>

<para> If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.

<note>

<title>Exception:

</title>

<para> If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

</para>

</note>

</para>

</listitem>

</orderedlist>

</para>

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

</para>

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

</para>

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

</para>

</sect2>

<sect2>

<title>Section 3

</title>

<para> You may copy and distribute the Program (or a work based on it, under <link linkend="sect2">Section 2

</link> in object code or executable form under the terms of

<link linkend="sect1">Sections 1

</link> and

<link linkend="sect2">2

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

<orderedlist>

<listitem>

<para> Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

</para>

</listitem>

<listitem>

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

</para>

</listitem>

<listitem>

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

</para>

</listitem>

</orderedlist>

</para>

<para> The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

</para>

<para> If distribution of executable or object code is made by offering access to copy from a

designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

</para>

</sect2>

<sect2>

<title>Section 4

</title>

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

</para>

</sect2>

<sect2>

<title>Section 5

</title>

<para> You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

</para>

</sect2>

<sect2>

<title>Section 6

</title>

<para> Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

</para>

</sect2>

<sect2>

<title>Section 7

</title>

<para> If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

</para>

<para> If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

</para>

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</para>

<para> This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

</para>

</sect2>

<sect2>

<title>Section 8

</title>

<para> If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

</para>

</sect2>

<sect2>

<title>Section 9

</title>

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

</para>

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</para>

</sect2>

<sect2>

<title>Section 10

</title>

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derivatives of our free software and of promoting the sharing and reuse of software generally.

</para>

</sect2>

<sect2>

<title>NO WARRANTY Section 11

</title>

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</para>

</sect2>

<sect2>

<title>Section 12

</title>

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</para>

<para>END OF TERMS AND CONDITIONS

</para>

</sect2>

</sect1>

<sect1>

<title>How to Apply These Terms to Your New Programs

</title>

<para>

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

</para>

<para>

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

</para>

<para>

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

Copyright (C) <year> <name of author>

</para>

<para>

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</para>

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</para>

<para>

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</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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</para>

<para>

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

</para>

<para>

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</para>

</sect1>

</appendix>

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./util/COPYRIGHT X 2003,2004,2005,2006,2007
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Version 3, 29 June 2007

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

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

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A "covered work" means either the unmodified Program or a work based on the Program.

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- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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```
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This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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under certain conditions; type `show c' for details.
```

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```
./.gitignore X 2009
./ChangeLog X 2003,2004,2005,2006,2007
./LICENSE X 2003,2004,2005,2006,2007
./MANIFEST.in X 2003,2004,2005,2006,2007
./Makefile MAKE 2003,2004,2005,2006,2007,2009,2011
./README X 2003,2004,2005,2006,2007
./TODO X 2003,2004,2005,2006,2007
./dns/__init__.py PYTHON 2003,2004,2005,2006,2007,2009,2011
./dns/dnssec.py PYTHON 2003,2004,2005,2006,2007,2009,2011
./dns/e164.py PYTHON 2006,2007,2009,2011
./dns/edns.py PYTHON 2009,2011
./dns/entropy.py PYTHON 2009,2011
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 ./dns/rdtype/ANY/PTR.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011
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 ./dns/rdtype/IN/A.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011
 ./dns/rdtype/IN/AAAA.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011
 ./dns/rdtype/IN/APL.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011
 ./dns/rdtype/IN/DHCID.py PYTHON 2006,2007,2009,2010,2011
 ./dns/rdtype/IN/IPSECKEY.py PYTHON 2006,2007,2009,2010,2011
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 ./dns/rdtype/IN/NSAP_PTR.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011
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 ./dns/rdtype/dsbase.py PYTHON 2010,2011
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 ./examples/e164.py X 2006,2007

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</para>

<para>

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

</para>

<para>

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

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

</para>

<para>

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

</para>

<para>

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

</para>

<bridgehead>

TERMS AND CONDITIONS

</bridgehead>

<bridgehead renderas="sect1">

0. Definitions.

</bridgehead>

<para>

“This License” refers to version 3 of the <acronym>GNU</acronym> General Public License.

</para>

<para>

“Copyright” also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

</para>

<para>

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

</para>

<para>

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

</para>

<para>

A “covered work” means either the unmodified Program or a work based on the Program.

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<bridgehead renderas="sect1">

1. Source Code.

</bridgehead>

<para>

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

</para>

<para>

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

</para>

<para>

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

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<bridgehead renderas="sect1">

2. Basic Permissions.

</bridgehead>

<para>

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

</para>

<para>

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their

relationship with you.

</para>

<para>

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

</para>

<bridgehead renderas="sect1">

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

</bridgehead>

<para>

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

</para>

<para>

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

</para>

<bridgehead renderas="sect1">

4. Conveying Verbatim Copies.

</bridgehead>

<para>

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

</para>

<para>

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

</para>

<bridgehead renderas="sect1">

5. Conveying Modified Source Versions.

</bridgehead>

<para>

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

</para>

<orderedlist numeration="loweralpha">

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

</orderedlist>

<para>

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

</para>

<bridgehead renderas="sect1">

6. Conveying Non-Source Forms.

</bridgehead>

<para>

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

</para>

<orderedlist numeration="loweralpha">

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

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

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

</orderedlist>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

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

</para>

<para>

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

</para>

<para>

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

</para>

<bridgehead renderas="sect1">

7. Additional Terms.

</bridgehead>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

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

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

</para>

<para>

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

</para>

<para>

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

</para>

<bridgehead renderas="sect1">

8. Termination.

</bridgehead>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<bridgehead renderas="sect1">

9. Acceptance Not Required for Having Copies.

</bridgehead>

<para>

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

</para>

<bridgehead renderas="sect1">

10. Automatic Licensing of Downstream Recipients.

</bridgehead>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<bridgehead renderas="sect1">

11. Patents.

</bridgehead>

<para>

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

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

</para>

<para>

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

</para>

<para>

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

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

</para>

<para>

A patent license is “discriminatory” if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

</para>

<para>

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

</para>

<bridgehead renderas="sect1">

12. No Surrender of Others’ Freedom.

</bridgehead>

<para>

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

</para>

<bridgehead renderas="sect1">

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

</bridgehead>

<para>

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

</para>

<bridgehead renderas="sect1">

14. Revised Versions of this License.

</bridgehead>

<para>

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

</para>

<para>

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

</para>

<para>

If the Program specifies that a proxy can decide which future versions of the <acronym>GNU</acronym> General Public License can be used, that proxy’s public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

</para>

<para>

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

</para>

<bridgehead renderas="sect1">

15. Disclaimer of Warranty.

</bridgehead>

<para>

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

</para>

<bridgehead renderas="sect1">

16. Limitation of Liability.

</bridgehead>

<para>

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

</para>

<bridgehead renderas="sect1">

17. Interpretation of Sections 15 and 16.

</bridgehead>

<para>

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

</para>

<bridgehead>

END OF TERMS AND CONDITIONS

</bridgehead>

<bridgehead renderas="sect1">

How to Apply These Terms to Your New Programs

</bridgehead>

<para>

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

</para>

<para>

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

</para>

<screen>

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

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

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

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

</screen>

<para>

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

</para>

<para>

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

</para>

<screen>

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

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</screen>

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</para>

<para>

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</para>

</appendix>

2.412 samba-common 3.6.23

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2.413 sctp 1.7.8

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2.415 setup 2.8.71 :10

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2.416 setuptools 38.5.1

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2.417 simplejson 3.7.3

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2.418 simplepam 0.1.5

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2.419 six 1.11.0

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2.420 slf4j 1.7.25

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```

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    <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">
```

```
<h1>Licensing terms for SLF4J</h1>
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`</body>`
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2.421 slf4j logger 1.7.21

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2.422 slf4j-api 1.7.12

2.423 slf4j-log4j12 1.7.7

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2.424 slfj 1.6.0

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2.428 Spring Java Common Annotations API

1.0.0

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Version 3, 29 June 2007

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2.441 sssd-client 1.16.0-19.el7_5.8

2.442 sssd-common 1.16.0-19.el7_5.8

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

2.444 sssd-ldap 1.16.0-19.el7_5.8

2.445 StAX API 1.0.1

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2.452 systemd-libs 219-42.el7_4.7

2.453 teamd 1.27

2.454 The Streaming API for XML - Reference Implementation 1.2.0

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2.459 validation-api 1.0.0.GA

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2.460 vcversioner 2.16.0.0

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2.469 Woden - API 1.0M8

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2.479 xstream 1.4.2

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2.480 yum-plugin-fastestmirror 1.1.31-46.el7_5

2.481 yum-utils 1.1.31-46.el7_5

2.482 zookeeper 3.4.10

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```
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