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In your requests please include the following reference number 78EE117C99-206481093

Contents

1.1 .NET CSRF Guard 1.0

1.1.1 Available under license

1.2 792x Supplicant SSL 0.9.7c

1.2.1 Notifications

1.2.2 Available under license

1.3 @svgr 4.3.0

1.3.1 Available under license

1.4 acl 2.2.51 :14.e17

1.4.1 Available under license

1.5 Amazon Corretto JDK 11.0.2.9.3

1.5.1 Available under license

1.6 antd 3.22.0

1.6.1 Available under license

1.7 anytree 2.6.0

1.8 Apache Commons Codec 1.9

1.8.1 Available under license

1.9 Apache HttpCore 4.4.3

1.9.1 Available under license

1.10 arptables 0.0.4 :8.e17

1.10.1 Available under license

1.11 audit 2.8.4 :4.e17

1.11.1 Available under license

1.12 authconfig 6.2.8 :30.e17

1.12.1 Available under license

1.13 autogen 5.18 :5.e17

1.13.1 Available under license

- 1.14 autoprefixer 9.5.0**
 - 1.14.1 Available under license
- 1.15 avahi 0.6.31 :19.el7**
 - 1.15.1 Available under license
- 1.16 babel 7.0.0**
 - 1.16.1 Available under license
- 1.17 babel-eslint 10.0.1**
 - 1.17.1 Available under license
- 1.18 babel-jest 23.4.2**
- 1.19 babel-loader 8.0.6**
 - 1.19.1 Available under license
- 1.20 babel-preset-react-app 9.0.0**
 - 1.20.1 Available under license
- 1.21 basesystem 10.0 :7.el7.centos**
 - 1.21.1 Available under license
- 1.22 bash 4.2.46 :31.el7**
 - 1.22.1 Available under license
- 1.23 bc 1.06.95 :13.el7**
 - 1.23.1 Available under license
- 1.24 bind 9.9.4 :74.el7_6.1**
 - 1.24.1 Available under license
- 1.25 binutils 2.27 :34.base.el7**
 - 1.25.1 Available under license
- 1.26 biosdevname 0.7.3 :1.el7**
 - 1.26.1 Available under license
- 1.27 boost 1.53.0 :27.el7**
 - 1.27.1 Available under license
- 1.28 Booststrap18col.min.js 3.3.7**
 - 1.28.1 Available under license
- 1.29 Bootstrap 3.3.7**
 - 1.29.1 Available under license
- 1.30 btrfs-progs 4.9.1 :1.el7**
 - 1.30.1 Available under license
- 1.31 bzip2 1.0.6 :13.el7**
 - 1.31.1 Available under license
- 1.32 bzip2-libs 1.0.6 :13.el7**
 - 1.32.1 Available under license
- 1.33 ca-certificates 2018.2.22 :70.0.el7_5**
- 1.34 cadvisor 0.28.3**

- 1.34.1 Available under license
- 1.35 case-sensitive-paths-webpack-plugin 2.2.0**
 - 1.35.1 Available under license
- 1.36 centos-logos 70.0.6 :3.el7.centos**
 - 1.36.1 Available under license
- 1.37 centos-release 7 :6.1810.2.el7.centos**
 - 1.37.1 Available under license
- 1.38 ceph-common 10.2.5 :4.el7**
 - 1.38.1 Available under license
- 1.39 chalk 2.4.2**
 - 1.39.1 Available under license
- 1.40 chardet 3.0.4**
 - 1.40.1 Available under license
- 1.41 checkpolicy 2.5 :8.el7**
 - 1.41.1 Available under license
- 1.42 chkconfig 1.7.4 :1.el7**
 - 1.42.1 Available under license
- 1.43 chokidar 1.4.2**
 - 1.43.1 Available under license
- 1.44 chokidar-cli 1.2.2**
 - 1.44.1 Available under license
- 1.45 chrony 3.2 :2.el7**
 - 1.45.1 Available under license
- 1.46 cifs-utils 6.2 :10.el7**
 - 1.46.1 Available under license
- 1.47 clufter 0.77.1 :1.el7**
 - 1.47.1 Available under license
- 1.48 cluster-glue 1.0.5 :6.el6**
 - 1.48.1 Available under license
- 1.49 Commons Lang 3.1**
 - 1.49.1 Available under license
- 1.50 commons-beanutils 1.9.3**
 - 1.50.1 Available under license
- 1.51 commons-fileupload 1.3.3**
 - 1.51.1 Available under license
- 1.52 commons-logging 1.2**
 - 1.52.1 Available under license
- 1.53 commons-math3 3.6.1**
 - 1.53.1 Available under license

- 1.54 commons-ssl 0.3.11**
 - 1.54.1 Available under license
- 1.55 confluent kafka 0.11.0**
 - 1.55.1 Available under license
- 1.56 confluent-kafka 0.11.6**
 - 1.56.1 Available under license
- 1.57 container-selinux 2.99 :1.el7_6**
 - 1.57.1 Available under license
- 1.58 copy-webpack-plugin 5.0.3**
 - 1.58.1 Available under license
- 1.59 copyfiles 2.1.0**
 - 1.59.1 Available under license
- 1.60 coreutils 8.22 :23.el7**
 - 1.60.1 Available under license
- 1.61 corosync 2.4.3 :4.el7**
 - 1.61.1 Available under license
- 1.62 cpio 2.11 :27.el7**
 - 1.62.1 Available under license
- 1.63 cracklib 2.9.0 :11.el7**
 - 1.63.1 Available under license
- 1.64 cronie 1.4.11 :20.el7_6**
 - 1.64.1 Available under license
- 1.65 cross-env 5.2.0**
 - 1.65.1 Available under license
- 1.66 crypto and net master**
- 1.67 cryptsetup 2.0.3 :3.el7**
 - 1.67.1 Available under license
- 1.68 css-loader 0.28.7**
 - 1.68.1 Available under license
- 1.69 cups 1.6.3 :35.el7**
 - 1.69.1 Available under license
- 1.70 curl 7.29.0 :54.el7**
 - 1.70.1 Available under license
- 1.71 cyrus-sasl 2.1.26 :23.el7**
 - 1.71.1 Available under license
- 1.72 D3-color.v1.min.js 1.0.2**
 - 1.72.1 Available under license
- 1.73 D3-interpolate.v1.mi.js 1.1.0**
 - 1.73.1 Available under license

- 1.74 D3-scale-chromatic.js 1.1.0**
 - 1.74.1 Available under license
- 1.75 d3.js 4.4.0**
 - 1.75.1 Available under license
- 1.76 dbus 1.10.24 :13.el7_6**
 - 1.76.1 Available under license
- 1.77 dbus-glib 0.100 :7.el7**
 - 1.77.1 Available under license
- 1.78 dbus-python 1.1.1 :9.el7**
 - 1.78.1 Available under license
- 1.79 dejavu-fonts 2.33 :6.el7**
 - 1.79.1 Available under license
- 1.80 delete-by-query 2.3.3**
- 1.81 desktop-file-utils 0.23 :1.el7**
 - 1.81.1 Available under license
- 1.82 device-mapper-multipath 0.4.9 :123.el7**
 - 1.82.1 Available under license
- 1.83 device-mapper-persistent-data 0.7.3 :3.el7**
 - 1.83.1 Available under license
- 1.84 dhcp 4.2.5 :68.el7.centos.1**
 - 1.84.1 Available under license
- 1.85 diffutils 3.3 :4.el7**
 - 1.85.1 Available under license
- 1.86 ding-lib 0.6.1 :32.el7**
 - 1.86.1 Available under license
- 1.87 distribute 0.6.27**
 - 1.87.1 Available under license
- 1.88 dmidecode 3.1 :2.el7**
 - 1.88.1 Available under license
- 1.89 dnsmasq 2.76 :7.el7**
 - 1.89.1 Available under license
- 1.90 docker-ce 17.06.2.ce :1.el7.centos**
 - 1.90.1 Available under license
- 1.91 docker-ce 17.09.1--ce**
 - 1.91.1 Available under license
- 1.92 dosfstools 3.0.20 :10.el7**
 - 1.92.1 Available under license
- 1.93 dotenv 8.0.0**
 - 1.93.1 Available under license

- 1.94 dotenv-expand 5.1.0**
 - 1.94.1 Available under license
- 1.95 dracut 033 :554.el7**
 - 1.95.1 Available under license
- 1.96 e2fsprogs 1.42.9 :13.el7**
 - 1.96.1 Available under license
- 1.97 ebttables 2.0.10 :16.el7**
 - 1.97.1 Available under license
- 1.98 efibootmgr 15 :2.el7**
 - 1.98.1 Available under license
- 1.99 efibootmgr 17 :2.el7**
 - 1.99.1 Available under license
- 1.100 efivar 36 :11.el7_6.1**
 - 1.100.1 Available under license
- 1.101 elastalert 0.1.35**
 - 1.101.1 Available under license
- 1.102 Elastic Search 0.90.2**
 - 1.102.1 Available under license
- 1.103 elasticsearch 2.3.3**
 - 1.103.1 Available under license
- 1.104 elasticsearch 6.1.1**
 - 1.104.1 Available under license
- 1.105 Elasticsearch 5.6.7**
 - 1.105.1 Available under license
- 1.106 elasticsearch 6.8.3**
 - 1.106.1 Available under license
- 1.107 elasticsearch-dsl 6.3.1**
 - 1.107.1 Available under license
- 1.108 elfutils 0.172 :2.el7**
 - 1.108.1 Available under license
- 1.109 emacs 24.3 :22.el7**
 - 1.109.1 Available under license
- 1.110 enum34 1.1.6**
 - 1.110.1 Available under license
- 1.111 enzyme 3.10.0**
 - 1.111.1 Available under license
- 1.112 enzyme-adapter-react-16 1.14.0**
 - 1.112.1 Available under license
- 1.113 Erlang/OTP 20.3.4 :1.el7.centos**

- 1.113.1 Available under license
- 1.114 eslint 6.0.1**
 - 1.114.1 Available under license
- 1.115 eslint-config-standard 12.0.0**
 - 1.115.1 Available under license
- 1.116 eslint-config-standard-react 7.0.2**
 - 1.116.1 Available under license
- 1.117 eslint-plugin-import 2.18.0**
 - 1.117.1 Available under license
- 1.118 eslint-plugin-node 9.1.0**
 - 1.118.1 Available under license
- 1.119 eslint-plugin-promise 4.2.1**
- 1.120 eslint-plugin-react 7.14.2**
 - 1.120.1 Available under license
- 1.121 eslint-plugin-standard 4.0.0**
 - 1.121.1 Available under license
- 1.122 ethtool 4.8 :9.el7**
 - 1.122.1 Available under license
- 1.123 expat 2.1.0 :10.el7_3**
 - 1.123.1 Available under license
- 1.124 expect 5.45 :14.el7_1**
 - 1.124.1 Available under license
- 1.125 extract-text-webpack-plugin 3.0.2**
 - 1.125.1 Available under license
- 1.126 fence-agents 4.2.1 :11.el7_6.8**
 - 1.126.1 Available under license
- 1.127 fence-virt 0.3.2 :13.el7**
 - 1.127.1 Available under license
- 1.128 file 5.11 :35.el7**
 - 1.128.1 Available under license
- 1.129 file-loader 4.0.0**
 - 1.129.1 Available under license
- 1.130 filebeat 6.5.3**
 - 1.130.1 Available under license
- 1.131 filesystem 3.2 :25.el7**
- 1.132 findutils 4.5.11 :5.el7**
 - 1.132.1 Available under license
- 1.133 fipscheck 1.4.1 :6.el7**
 - 1.133.1 Available under license

- 1.134 firewalld 0.5.3 :5.el7**
 - 1.134.1 Available under license
- 1.135 flake8 3.7.7**
 - 1.135.1 Available under license
- 1.136 flask 0.12.2**
 - 1.136.1 Available under license
- 1.137 Flask-Cors 3.0.3**
 - 1.137.1 Available under license
- 1.138 fontconfig 2.13.0 :4.3.el7**
 - 1.138.1 Available under license
- 1.139 fontpackages-filesystem 1.44 :8.el7**
 - 1.139.1 Available under license
- 1.140 freetype 2.8 :12.el7_6.1**
 - 1.140.1 Available under license
- 1.141 fs-extra 8.1.0**
 - 1.141.1 Available under license
- 1.142 fuse 2.9.2 :11.el7**
 - 1.142.1 Available under license
- 1.143 futures 3.1.1**
 - 1.143.1 Available under license
- 1.144 fxload 2002_04_11 :16.el7**
 - 1.144.1 Available under license
- 1.145 gawk 4.0.2 :4.el7_3.1**
 - 1.145.1 Available under license
- 1.146 gcc 4.8.5 :36.el7_6.2**
 - 1.146.1 Available under license
- 1.147 gdbm 1.10 :8.el7**
 - 1.147.1 Available under license
- 1.148 GeolIP 1.5.0 :13.el7**
 - 1.148.1 Available under license
- 1.149 gettext 0.19.8.1 :2.el7**
 - 1.149.1 Available under license
- 1.150 github.com-gorilla-mux v1.6.1**
 - 1.150.1 Available under license
- 1.151 github.com/grpc/grpc-common 1.0**
 - 1.151.1 Available under license
- 1.152 github.com/hashicorp/errwrap
7554cd9344cec97297fa6649b055a8c98c2a1e55 :1.0**
 - 1.152.1 Available under license

- 1.153 github.com/hashicorp/go-multierror `b7773ae218740a7be65057fc60b366a49b538a44` :1.0**
 - 1.153.1 Available under license
- 1.154 github.com/mailru/easyjson `8b799c424f57fa123fc63a99d6383bc6e4c02578`**
 - 1.154.1 Available under license
- 1.155 [glib-networking](https://github.com/glib-networking) 2.56.1 :1.el7**
 - 1.155.1 Available under license
- 1.156 [glib2](https://github.com/glib/glib2) 2.56.1 :4.el7_6**
 - 1.156.1 Available under license
- 1.157 [glibc](https://github.com/glibc) 2.17 :260.el7_6.6**
 - 1.157.1 Available under license
- 1.158 [glibmm24](https://github.com/glibmm24) 2.56.0 :1.el7**
 - 1.158.1 Available under license
- 1.159 [gmp](https://github.com/gmp) 6.0.0 :15.el7**
 - 1.159.1 Available under license
- 1.160 [gmp](https://github.com/gmp) 6.1.1**
 - 1.160.1 Available under license
- 1.161 [gmp/gplv3](https://github.com/gmp/gplv3) 6.0.0 :15.el7**
 - 1.161.1 Available under license
- 1.162 [gnupg2](https://github.com/gnupg2) 2.0.22 :5.el7_5**
 - 1.162.1 Available under license
- 1.163 [gnutls](https://github.com/gnutls) 3.3.29 :9.el7_6**
- 1.164 [go-bgp](https://github.com/go-bgp) 1.8**
 - 1.164.1 Available under license
- 1.165 [go-metrics](https://github.com/go-metrics) `1f30fe9094a513ce4c700b9a54458bbb0c96996c`**
 - 1.165.1 Available under license
- 1.166 [gobject-introspection](https://github.com/gobject-introspection) 1.56.1 :1.el7**
 - 1.166.1 Available under license
- 1.167 [goexpect](https://github.com/goexpect) 1.0**
 - 1.167.1 Available under license
- 1.168 [golang-1.8](https://github.com/golang-1.8) 1.8.3 :2ubuntu1**
 - 1.168.1 Available under license
- 1.169 [golang-lru](https://github.com/golang-lru) `git` :r0.0**
 - 1.169.1 Available under license
- 1.170 golang.org/x/net `4971afdc2f162e82d185353533d3cf16188a9f4e`**
 - 1.170.1 Available under license
- 1.171 golang.org/x/net 2.0**
 - 1.171.1 Available under license
- 1.172 golang.org/x/net 3.0**

- 1.172.1 Available under license
- 1.173 golang.org/x/net 1.0**
 - 1.173.1 Available under license
- 1.174 golang.org/x/sys 1.0**
 - 1.174.1 Available under license
- 1.175 golang.org/x/tools 1.0**
 - 1.175.1 Available under license
- 1.176 golang.org/x/tools 3.0**
 - 1.176.1 Available under license
- 1.177 gopkg.in/robfig/cron.v2 v2**
 - 1.177.1 Available under license
- 1.178 gorilla mux master**
 - 1.178.1 Available under license
- 1.179 govmomi 2.0**
 - 1.179.1 Available under license
- 1.180 gpgme 1.3.2 :5.el7**
 - 1.180.1 Available under license
- 1.181 grafana 4.6.3**
 - 1.181.1 Available under license
- 1.182 grep 2.20 :3.el7**
 - 1.182.1 Available under license
- 1.183 groff 1.22.2 :8.el7**
 - 1.183.1 Available under license
- 1.184 grpc 1.10.0**
 - 1.184.1 Available under license
- 1.185 grub2 2.02 :0.76.el7.centos.1**
 - 1.185.1 Available under license
- 1.186 grubby 8.28 :25.el7**
 - 1.186.1 Available under license
- 1.187 gsettings-desktop-schemas 3.28.0 :2.el7**
 - 1.187.1 Available under license
- 1.188 gssproxy 0.7.0 :21.el7**
 - 1.188.1 Available under license
- 1.189 Guard 1.022**
 - 1.189.1 Available under license
- 1.190 guard 2.2.4**
 - 1.190.1 Available under license
- 1.191 guard-bundler 2.0.0**
 - 1.191.1 Available under license

- 1.192 guard-rspec 3.0.2**
 - 1.192.1 Available under license
- 1.193 guard-spork 1.5.1**
 - 1.193.1 Available under license
- 1.194 Guava: Google Core Libraries for Java 21.0.0 :v20170206-1425**
- 1.195 gzip 1.5 :10.e17**
 - 1.195.1 Available under license
- 1.196 hardlink 1.0 :19.e17**
 - 1.196.1 Available under license
- 1.197 heartbeat 3.0.4 :2.e16**
 - 1.197.1 Available under license
- 1.198 hicolor-icon-theme 0.12 :7.e17**
 - 1.198.1 Available under license
- 1.199 highcharts-react-official 2.2.2**
 - 1.199.1 Available under license
- 1.200 hostname 3.13 :3.e17**
 - 1.200.1 Available under license
- 1.201 html-webpack-plugin 3.2.0**
 - 1.201.1 Available under license
- 1.202 HTTP Client 4.5.2**
 - 1.202.1 Available under license
- 1.203 <https://github.com/hashicorp/memberlist> master**
 - 1.203.1 Available under license
- 1.204 hwdata 0.252 :9.1.e17**
 - 1.204.1 Available under license
- 1.205 icu 50.1.2 :17.e17**
 - 1.205.1 Available under license
- 1.206 identity-obj-proxy 3.0.0**
 - 1.206.1 Available under license
- 1.207 initscripts 9.49.46 :1.e17**
 - 1.207.1 Available under license
- 1.208 install 0.11.2**
 - 1.208.1 Available under license
- 1.209 iotop 0.6 :4.e17**
 - 1.209.1 Available under license
- 1.210 ipaddress 1.0.22**
 - 1.210.1 Available under license
- 1.211 ipmitool 1.8.18 :7.e17**
 - 1.211.1 Available under license

- 1.212 iproute 4.11.0 :14.el7_6.2**
 - 1.212.1 Available under license
- 1.213 iprutils 2.4.16.1 :1.el7**
 - 1.213.1 Available under license
- 1.214 ipset 6.38 :3.el7_6**
 - 1.214.1 Available under license
- 1.215 iptables 1.4.21 :28.el7**
 - 1.215.1 Available under license
- 1.216 iputils 20160308 :10.el7**
 - 1.216.1 Available under license
- 1.217 irqbalance 1.0.7 :11.el7**
 - 1.217.1 Available under license
- 1.218 itsdangerous 0.24**
 - 1.218.1 Available under license
- 1.219 jackson-annotations 2.9.8**
 - 1.219.1 Available under license
- 1.220 jackson-core 2.9.8**
 - 1.220.1 Available under license
- 1.221 jackson-core-asl 1.9.13**
 - 1.221.1 Available under license
- 1.222 jackson-databind 2.9.8**
 - 1.222.1 Available under license
- 1.223 jansson 2.10 :1.el7**
 - 1.223.1 Available under license
- 1.224 jasper 1.900.1 :33.el7**
 - 1.224.1 Available under license
- 1.225 java-diff-utils 4.0**
- 1.226 jbigkit 2.0 :11.el7**
 - 1.226.1 Available under license
- 1.227 jest 5.3.4**
- 1.228 jest 24.8.0**
 - 1.228.1 Available under license
- 1.229 jest-common 5.3.4**
- 1.230 jest-html-reporter 2.5.0**
 - 1.230.1 Available under license
- 1.231 Jinja2 2.10**
 - 1.231.1 Available under license
- 1.232 jmxterm jmxterm-1.0.1-SNAPSHOT-uber**
 - 1.232.1 Available under license

1.233 jQuery 1.11.3

1.233.1 Available under license

1.234 jQuery Mapael 1.1.0

1.234.1 Available under license

1.235 JQuery Timeago 1.5.1

1.235.1 Available under license

1.236 JQuery UI 1.11.3

1.236.1 Available under license

1.237 jQuery-File-Upload 9.21.0

1.237.1 Available under license

1.238 json-c 0.11 :4.el7_0

1.238.1 Available under license

1.239 Jython-standalone 2.7.2b2

1.239.1 Available under license

1.240 Jython-standalone 2.7.0

1.240.1 Available under license

1.241 kafka broker 2.11-0.10.2.1

1.241.1 Available under license

1.242 kazoo 2.5.0

1.242.1 Available under license

1.243 kbd 1.15.5 :15.el7

1.243.1 Available under license

1.244 kernel 3.10.0 :957.21.3.el7

1.244.1 Available under license

1.245 kexec-tools 2.0.15 :21.el7_6.3

1.245.1 Available under license

1.246 keyutils 1.5.8 :3.el7

1.246.1 Available under license

1.247 keyutils-libs 1.5.8 :3.el7

1.247.1 Available under license

1.248 Kibana 4.5.4

1.248.1 Available under license

1.249 Kibana-5.6.7 5.6.7

1.249.1 Available under license

1.250 kibana-vis-dropdown 1

1.250.1 Available under license

1.251 kmod 20 :23.el7

1.251.1 Available under license

1.252 krb5 1.15.1 :37.el7_6

1.252.1 Available under license
1.253 ldns 1.6.16 :10.el7
1.253.1 Available under license
1.254 less 394
1.254.1 Available under license
1.255 less 458 :9.el7
1.255.1 Available under license
1.256 less-loader 4.1.0
1.256.1 Available under license
1.257 less-plugin-npm-import 2.1.0
1.257.1 Available under license
1.258 libaio 0.3.109 :13.el7
1.258.1 Available under license
1.259 libassuan 2.1.0 :3.el7
1.259.1 Available under license
1.260 libattr 2.4.46 :13.el7
1.260.1 Available under license
1.261 libbasicobjects 0.1.1 :27.el7
1.261.1 Available under license
1.262 libcap 2.22 :9.el7
1.262.1 Available under license
1.263 libcap-ng 0.7.5 :4.el7
1.263.1 Available under license
1.264 libcgroupp 0.41 :20.el7
1.264.1 Available under license
1.265 libcollection-0.6.2-27.el7.x86_64 0.6.2 :27.el7
1.265.1 Available under license
1.266 libcroco 0.6.12 :4.el7
1.266.1 Available under license
1.267 libcwd-guard-perl 0.05 :1
1.267.1 Available under license
1.268 libdaemon 0.14 :7.el7
1.268.1 Available under license
1.269 libdb 5.3.21 :24.el7
1.269.1 Available under license
1.270 libdnet 1.12 :13.1.el7
1.270.1 Available under license
1.271 libdrm 2.4.91 :3.el7
1.271.1 Available under license

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1.558 resource-agents 4.1.1 :12.e17_6.8
1.558.1 Available under license
1.559 rimraf 2.6.3
1.559.1 Available under license
1.560 rollup 0.57.1
1.560.1 Available under license
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1.561.1 Available under license
1.562 rollup-plugin-babel 4.3.3
1.562.1 Available under license
1.563 rollup-plugin-commonjs 8.2.1
1.563.1 Available under license
1.564 rollup-plugin-less 1.1.2
1.565 rollup-plugin-less-loader 0.2.1
1.566 rollup-plugin-node-resolve 3.0.2
1.567 rollup-plugin-peer-deps-external 2.0.0
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1.568 rollup-plugin-postcss 2.0.3

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1.569 rollup-plugin-url 1.3.0

1.570 rootfiles 8.1 :11.el7

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1.571 rpcbind 0.2.0 :47.el7

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1.575 ruby 2.0.0.648 :35.el7_6

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1.577 scikit-learn 0.19.1

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1.579 screen 4.1.0 :0.25.20120314git3c2946.el7

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1.587 shim-signed 15 :2.el7.centos

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1.591 sklearn 0.0

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1.594 snmp4j 2.5.8

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1.609 superelasticsearch 0.1.1
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1.611 systemd 219 :62.el7_6.7
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1.612 sysvinit-tools 2.88 :14.dsf.el7
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1.615 tcp_wrappers 7.6 :77.el7
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1.618 terminal-notifier-guard 1.5.3
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1.621 tornado 6.0.1
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1.624 tuned 2.10.0 :6.el7_6.3
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1.625 tzdata 2019b :1.el7
1.625.1 Available under license
1.626 unbound 1.6.6 :1.el7
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1.627 unzip 6.0 :19.el7
1.627.1 Available under license
1.628 url-loader 1.1.1
1.628.1 Available under license
1.629 urllib3 1.22

- 1.630 ustr 1.0.4 :16.el7**
 - 1.630.1 Available under license
- 1.631 util-linux 2.23.2 :59.el7_6.1**
 - 1.631.1 Available under license
- 1.632 vim 7.4.160 :6.el7_6**
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- 1.633 virt-what 1.18 :4.el7**
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- 1.637 webpack-manifest-plugin 2.0.4**
 - 1.637.1 Available under license
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- 1.640 werkzeug 0.14.1**
 - 1.640.1 Available under license
- 1.641 whatwg-fetch 3.0.0**
 - 1.641.1 Available under license
- 1.642 which 2.20 :7.el7**
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 - 1.643.1 Available under license
- 1.644 xfsprogs 4.5.0 :19.el7_6**
 - 1.644.1 Available under license
- 1.645 xinetd 2.3.15 :13.el7**
 - 1.645.1 Available under license
- 1.646 xkeyboard-config 2.24 :1.el7**
 - 1.646.1 Available under license
- 1.647 xmlhttprequest-ssl 1.5.1**
 - 1.647.1 Available under license
- 1.648 xorg-x11-server 1.20.1 :5.3.el7_6**
 - 1.648.1 Available under license
- 1.649 xorg-x11-server-utils 7.7 :14.el7**

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- 1.650 xorg-x11-xauth 1.0.9 :1.el7**
- 1.650.1 Available under license
- 1.651 xz 5.2.2 :1.el7**
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- 1.652 xz-libs 5.2.2 :1.el7**
- 1.652.1 Available under license
- 1.653 yaml 2.0**
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- 1.654.1 Available under license
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- 1.656 zerofree 1.0.3 :6.el7**
- 1.656.1 Available under license
- 1.657 zip 3.0 :11.el7**
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- 1.658 zlib 1.2.7 :18.el7**
- 1.658.1 Available under license
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1.4 acl 2.2.51 :14.el7

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```

```

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```

```

public class CopyingResponse extends EchoResponse {

```

```

    public CopyingResponse() { }

```

```

    public CopyingResponse(EchoRequest request) {

```

```

        content = request.getContent();

```

```

    }

```

```

}

```

```

/*

```

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```

```

*/

```

```

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 *
 */
import java.rmi.Remote;
public interface Legal extends Remote {};
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```
package build.tools.cldrconverter;
```

```
import java.util.Calendar;  
import java.util.GregorianCalendar;  
import java.util.Locale;  
import java.util.TimeZone;
```

```
class CopyrightHeaders {  
    private static final String ORACLE2012 =  
        "/*\n" +  
        " * Copyright (c) %d, Oracle and/or its affiliates. All rights reserved.\n" +  
        " */\n";  
  
    private static final String ORACLE_AFTER2012 =  
        "/*\n" +  
        " * Copyright (c) 2012, %d, Oracle and/or its affiliates. All rights reserved.\n" +  
        " */\n";  
  
    private static final String UNICODE =  
        "/*\n" +  
        " * COPYRIGHT AND PERMISSION NOTICE\n" +  
        " *\n" +  
        " * Copyright (C) 1991-2012 Unicode, Inc. All rights reserved. Distributed under\n" +  
        " * the Terms of Use in http://www.unicode.org/copyright.html.\n" +  
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" */\n";

```

```
private static String OPENJDK2012 =
```

```

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" */\n";

```

```
private static String OPENJDK_AFTER2012 =
```

```

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" * or visit www.oracle.com if you need additional information or have any\n" +
" * questions.\n" +
" */\n";

```

```

static String getOracleCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? ORACLE_AFTER2012 : ORACLE2012, year);
}

static String getUnicodeCopyright() {
    return UNICODE;
}

static String getOpenJDKCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? OPENJDK_AFTER2012 : OPENJDK2012, year);
}

private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
        Locale.US).get(Calendar.YEAR);
}

// no instantiation
private CopyrightHeaders() {
}
}

```

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- */

```
package java.security;
```

```
/**
```

- * Abstract class for representing access to a system resource.
- * All permissions have a name (whose interpretation depends on the subclass),
- * as well as abstract functions for defining the semantics of the
- * particular Permission subclass.
- *
- * <p>Most Permission objects also include an "actions" list that tells the actions
- * that are permitted for the object. For example,
- * for a { @code java.io.FilePermission } object, the permission name is
- * the pathname of a file (or directory), and the actions list
- * (such as "read, write") specifies which actions are granted for the
- * specified file (or for files in the specified directory).
- * The actions list is optional for Permission objects, such as
- * { @code java.lang.RuntimePermission },
- * that don't need such a list; you either have the named permission (such
- * as "system.exit") or you don't.
- *

```

* <p>An important method that must be implemented by each subclass is
* the { @code implies } method to compare Permissions. Basically,
* "permission p1 implies permission p2" means that
* if one is granted permission p1, one is naturally granted permission p2.
* Thus, this is not an equality test, but rather more of a
* subset test.
*
* <P> Permission objects are similar to String objects in that they
* are immutable once they have been created. Subclasses should not
* provide methods that can change the state of a permission
* once it has been created.
*
* @see Permissions
* @see PermissionCollection
*
*
* @author Marianne Mueller
* @author Roland Schemers
*/

```

```

public abstract class Permission implements Guard, java.io.Serializable {

```

```

    private static final long serialVersionUID = -5636570222231596674L;

```

```

    private String name;

```

```

    /**

```

```

     * Constructs a permission with the specified name.
     *
     * @param name name of the Permission object being created.
     *
     */

```

```

    public Permission(String name) {
        this.name = name;
    }

```

```

    /**

```

```

     * Implements the guard interface for a permission. The
     * { @code SecurityManager.checkPermission } method is called,
     * passing this permission object as the permission to check.
     * Returns silently if access is granted. Otherwise, throws
     * a SecurityException.
     *
     * @param object the object being guarded (currently ignored).
     *
     * @throws SecurityException
     *         if a security manager exists and its

```

```

*    {@code checkPermission} method doesn't allow access.
*
* @see Guard
* @see GuardedObject
* @see SecurityManager#checkPermission
*
*/
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * <P>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 *
 * <p>The {@code implies} method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 *
 * @param permission the permission to check against.
 *
 * @return true if the specified permission is implied by this object,
 * false if not.
 */

public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 * <P>
 * Do not use the {@code equals} method for making access control
 * decisions; use the {@code implies} method.
 *
 * @param obj the object we are testing for equality with this object.
 *
 * @return true if both Permission objects are equivalent.
 */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 * <P>
 * The required {@code hashCode} behavior for Permission Objects is

```

```

* the following:
* <ul>
* <li>Whenever it is invoked on the same Permission object more than
* once during an execution of a Java application, the
* { @code hashCode } method
* must consistently return the same integer. This integer need not
* remain consistent from one execution of an application to another
* execution of the same application.
* <li>If two Permission objects are equal according to the
* { @code equals }
* method, then calling the { @code hashCode } method on each of the
* two Permission objects must produce the same integer result.
* </ul>
*
* @return a hash code value for this object.
*/

```

```
public abstract int hashCode();
```

```

/**
* Returns the name of this Permission.
* For example, in the case of a { @code java.io.FilePermission },
* the name will be a pathname.
*
* @return the name of this Permission.
*
*/

```

```
public final String getName() {
    return name;
}
```

```

/**
* Returns the actions as a String. This is abstract
* so subclasses can defer creating a String representation until
* one is needed. Subclasses should always return actions in what they
* consider to be their
* canonical form. For example, two FilePermission objects created via
* the following:
*
* <pre>
* perm1 = new FilePermission(p1,"read,write");
* perm2 = new FilePermission(p2,"write,read");
* </pre>
*
* both return
* "read,write" when the { @code getActions } method is invoked.
*
*/

```

```

* @return the actions of this Permission.
*
*/

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the {@code PermissionCollection.implies} method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 *
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 */

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: ('ClassName" "name" "actions"), or
 * ('ClassName" "name")' if actions list is null or empty.
 *
 * @return information about this Permission.
 */

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + "\" \"\" + name + "\"";
    } else {
        return "(" + getClass().getName() + "\" \"\" + name +
            "\" \"\" + actions + "\"";
    }
}

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```

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*/

```

```
package java.security.acl;
```

```

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 */
public interface Permission {

    /**
     * Returns true if the object passed matches the permission represented
     * in this interface.
     *
     * @param another the Permission object to compare with.
     *
     * @return true if the Permission objects are equal, false otherwise
     */
    public boolean equals(Object another);

    /**
     * Prints a string representation of this permission.
     *
     * @return the string representation of the permission.
     */
    public String toString();
}

```

}

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# or visit www.oracle.com if you need additional information or have any  
# questions.  
#
```

```
# Version
```

```
# Uses Fedora Core 6 fonts and file paths.  
version=1
```

```
# Component Font Mappings
```

```
dialog.plain.latin-1=DejaVu LGC Sans  
dialog.plain.japanese-x0208=Sazanami Gothic  
dialog.plain.korean=Baekmuk Gulim  
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni  
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni
```

```
dialog.bold.latin-1=DejaVu LGC Sans Bold  
dialog.bold.japanese-x0208=Sazanami Gothic  
dialog.bold.korean=Baekmuk Gulim  
dialog.bold.chinese-big5=AR PL ShanHeiSun Uni  
dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni
```

```
dialog.italic.latin-1=DejaVu LGC Sans Oblique  
dialog.italic.japanese-x0208=Sazanami Gothic  
dialog.italic.korean=Baekmuk Gulim  
dialog.italic.chinese-big5=AR PL ShanHeiSun Uni  
dialog.italic.chinese-gb18030=AR PL ShanHeiSun Uni
```

```
dialog.bolditalic.latin-1=DejaVu LGC Sans Bold Oblique  
dialog.bolditalic.japanese-x0208=Sazanami Gothic  
dialog.bolditalic.korean=Baekmuk Gulim  
dialog.bolditalic.chinese-big5=AR PL ShanHeiSun Uni  
dialog.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni
```

```
sansserif.plain.latin-1=DejaVu LGC Sans  
sansserif.plain.japanese-x0208=Sazanami Gothic  
sansserif.plain.korean=Baekmuk Gulim  
sansserif.plain.chinese-big5=AR PL ShanHeiSun Uni  
sansserif.plain.chinese-gb18030=AR PL ShanHeiSun Uni
```

```
sansserif.bold.latin-1=DejaVu LGC Sans Bold  
sansserif.bold.japanese-x0208=Sazanami Gothic  
sansserif.bold.korean=Baekmuk Gulim
```

sansserif.bold.chinese-big5=AR PL ShanHeiSun Uni
sansserif.bold.chinese-gb18030=AR PL ShanHeiSun Uni

sansserif.italic.latin-1=DejaVu LGC Sans Oblique
sansserif.italic.japanese-x0208=Sazanami Gothic
sansserif.italic.korean=Baekmuk Gulim
sansserif.italic.chinese-big5=AR PL ShanHeiSun Uni
sansserif.italic.chinese-gb18030=AR PL ShanHeiSun Uni

sansserif.bolditalic.latin-1=DejaVu LGC Sans Bold Oblique
sansserif.bolditalic.japanese-x0208=Sazanami Gothic
sansserif.bolditalic.korean=Baekmuk Gulim
sansserif.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
sansserif.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

serif.plain.latin-1=DejaVu LGC Serif
serif.plain.japanese-x0208=Sazanami Mincho
serif.plain.korean=Baekmuk Batang
serif.plain.chinese-big5=AR PL ZenKai Uni
serif.plain.chinese-gb18030=AR PL ZenKai Uni

serif.bold.latin-1=DejaVu LGC Serif Bold
serif.bold.japanese-x0208=Sazanami Mincho
serif.bold.korean=Baekmuk Batang
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serif.bolditalic.japanese-x0208=Sazanami Mincho
serif.bolditalic.korean=Baekmuk Batang
serif.bolditalic.chinese-big5=AR PL ZenKai Uni
serif.bolditalic.chinese-gb18030=AR PL ZenKai Uni

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monospaced.plain.korean=Baekmuk Gulim
monospaced.plain.chinese-big5=AR PL ShanHeiSun Uni
monospaced.plain.chinese-gb18030=AR PL ShanHeiSun Uni

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monospaced.bold.japanese-x0208=Sazanami Gothic
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monospaced.italic.latin-1=DejaVu LGC Sans Mono Oblique
monospaced.italic.japanese-x0208=Sazanami Gothic
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monospaced.italic.chinese-gb18030=AR PL ShanHeiSun Uni

monospaced.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
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dialoginput.plain.latin-1=DejaVu LGC Sans Mono
dialoginput.plain.japanese-x0208=Sazanami Gothic
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dialoginput.bolditalic.japanese-x0208=Sazanami Gothic
dialoginput.bolditalic.korean=Baekmuk Gulim
dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1

sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf

filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
filename.DejaVu_LGC_Sans_Mono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf

filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Oblique.ttf
filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-BoldOblique.ttf

filename.Sazanami_Gothic=/usr/share/fonts/japanese/TrueType/sazanami-gothic.ttf
filename.Sazanami_Mincho=/usr/share/fonts/japanese/TrueType/sazanami-mincho.ttf
filename.AR_PL_ShanHeiSun_Uni=/usr/share/fonts/chinese/TrueType/uming.ttf
filename.AR_PL_ZenKai_Uni=/usr/share/fonts/chinese/TrueType/ukai.ttf
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*

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<style type="text/css">
<!--
html, body { background: #fff; color: #000; } /* body for Windows IE3 */
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*/

package java.security;

/**

* Abstract class for representing access to a system resource.
* All permissions have a name (whose interpretation depends on the subclass),
* as well as abstract functions for defining the semantics of the
* particular Permission subclass.
*
* <p>Most Permission objects also include an "actions" list that tells the actions
* that are permitted for the object. For example,
* for a { @code java.io.FilePermission } object, the permission name is
* the pathname of a file (or directory), and the actions list
* (such as "read, write") specifies which actions are granted for the
* specified file (or for files in the specified directory).
* The actions list is optional for Permission objects, such as
* { @code java.lang.RuntimePermission },
* that don't need such a list; you either have the named permission (such
* as "system.exit") or you don't.
*
* <p>An important method that must be implemented by each subclass is
* the { @code implies } method to compare Permissions. Basically,
* "permission p1 implies permission p2" means that

- * if one is granted permission p1, one is naturally granted permission p2.
- * Thus, this is not an equality test, but rather more of a
- * subset test.
- *
- * <P> Permission objects are similar to String objects in that they
- * are immutable once they have been created. Subclasses should not
- * provide methods that can change the state of a permission
- * once it has been created.
- *
- * @see Permissions
- * @see PermissionCollection
- *
- *
- * @author Marianne Mueller
- * @author Roland Schemers
- * @since 1.2
- */

```
public abstract class Permission implements Guard, java.io.Serializable {
```

```
    private static final long serialVersionUID = -5636570222231596674L;
```

```
    private String name;
```

```
    /**
```

```
     * Constructs a permission with the specified name.
```

```
     *
```

```
     * @param name name of the Permission object being created.
```

```
     *
```

```
    */
```

```
    public Permission(String name) {
```

```
        this.name = name;
```

```
    }
```

```
    /**
```

```
     * Implements the guard interface for a permission. The
```

```
     * {@code SecurityManager.checkPermission} method is called,
```

```
     * passing this permission object as the permission to check.
```

```
     * Returns silently if access is granted. Otherwise, throws
```

```
     * a SecurityException.
```

```
     *
```

```
     * @param object the object being guarded (currently ignored).
```

```
     *
```

```
     * @throws SecurityException
```

```
     *     if a security manager exists and its
```

```
     *     {@code checkPermission} method doesn't allow access.
```

```
     *
```

```

* @see Guard
* @see GuardedObject
* @see SecurityManager#checkPermission
*
*/
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * <P>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 *
 * <p>The { @code implies } method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 *
 * @param permission the permission to check against.
 *
 * @return true if the specified permission is implied by this object,
 * false if not.
 */

public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 * <P>
 * Do not use the { @code equals } method for making access control
 * decisions; use the { @code implies } method.
 *
 * @param obj the object we are testing for equality with this object.
 *
 * @return true if both Permission objects are equivalent.
 */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 * <P>
 * The required { @code hashCode } behavior for Permission Objects is
 * the following:
 * <ul>

```


- * Whenever it is invoked on the same Permission object more than
- * once during an execution of a Java application, the
- * { @code hashCode } method
- * must consistently return the same integer. This integer need not
- * remain consistent from one execution of an application to another
- * execution of the same application.
- * If two Permission objects are equal according to the
- * { @code equals }
- * method, then calling the { @code hashCode } method on each of the
- * two Permission objects must produce the same integer result.

*

* @return a hash code value for this object.

*/

```
public abstract int hashCode();
```

```
/**
```

- * Returns the name of this Permission.
- * For example, in the case of a { @code java.io.FilePermission },
- * the name will be a pathname.
- * @return the name of this Permission.

```
*/
```

```
public final String getName() {
    return name;
}
```

```
/**
```

- * Returns the actions as a String. This is abstract
- * so subclasses can defer creating a String representation until
- * one is needed. Subclasses should always return actions in what they
- * consider to be their
- * canonical form. For example, two FilePermission objects created via
- * the following:
- * <pre>
- * perm1 = new FilePermission(p1,"read,write");
- * perm2 = new FilePermission(p2,"write,read");
- * </pre>
- * both return
- * "read,write" when the { @code getActions } method is invoked.
- * @return the actions of this Permission.

```
*/
```

```

*/

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the {@code PermissionCollection.implies} method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 *
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 */

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: ('ClassName" "name" "actions"), or
 * ('ClassName" "name")' if actions list is null or empty.
 *
 * @return information about this Permission.
 */

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + "\" \" + name + "\"";
    } else {
        return "(" + getClass().getName() + "\" \" + name +
            "\" \" + actions + "\"";
    }
}

}

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*/
```

```
package java.security.acl;
```

```
/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 * @since 1.1
 *
 * @deprecated This class is deprecated and subject to removal in a future
 * version of Java SE. It has been replaced by { @code java.security.Policy }
 * and related classes since 1.2.
 */
```

```
@Deprecated(since="9", forRemoval=true)
public interface Permission {
```

```
/**
 * Returns true if the object passed matches the permission represented
 * in this interface.
 *
 * @param another the Permission object to compare with.
 *
 * @return true if the Permission objects are equal, false otherwise
 */
public boolean equals(Object another);
```

```
/**
 * Prints a string representation of this permission.
 *
 */
```

```

* @return the string representation of the permission.
*/
public String toString();

}
## Pako v1.0

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```

```
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```

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```
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Version

Uses Fedora Core 6 fonts and file paths.

version=1

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monospaced.bold.latin-1=DejaVu LGC Sans Mono Bold
monospaced.bold.japanese-x0208=Sazanami Gothic
monospaced.bold.korean=Baekmuk Gulim
monospaced.bold.chinese-big5=AR PL ShanHeiSun Uni
monospaced.bold.chinese-gb18030=AR PL ShanHeiSun Uni

monospaced.italic.latin-1=DejaVu LGC Sans Mono Oblique
monospaced.italic.japanese-x0208=Sazanami Gothic
monospaced.italic.korean=Baekmuk Gulim
monospaced.italic.chinese-big5=AR PL ShanHeiSun Uni

monospaced.italic.chinese-gb18030=AR PL ShanHeiSun Uni

monospaced.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique

monospaced.bolditalic.japanese-x0208=Sazanami Gothic

monospaced.bolditalic.korean=Baekmuk Gulim

monospaced.bolditalic.chinese-big5=AR PL ShanHeiSun Uni

monospaced.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.plain.latin-1=DejaVu LGC Sans Mono

dialoginput.plain.japanese-x0208=Sazanami Gothic

dialoginput.plain.korean=Baekmuk Gulim

dialoginput.plain.chinese-big5=AR PL ShanHeiSun Uni

dialoginput.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bold.latin-1=DejaVu LGC Sans Mono Bold

dialoginput.bold.japanese-x0208=Sazanami Gothic

dialoginput.bold.korean=Baekmuk Gulim

dialoginput.bold.chinese-big5=AR PL ShanHeiSun Uni

dialoginput.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.italic.latin-1=DejaVu LGC Sans Mono Oblique

dialoginput.italic.japanese-x0208=Sazanami Gothic

dialoginput.italic.korean=Baekmuk Gulim

dialoginput.italic.chinese-big5=AR PL ShanHeiSun Uni

dialoginput.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique

dialoginput.bolditalic.japanese-x0208=Sazanami Gothic

dialoginput.bolditalic.korean=Baekmuk Gulim

dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni

dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

Search Sequences

sequence.allfonts=latin-1

sequence.allfonts.Big5=chinese-big5,latin-1

sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1

sequence.allfonts.EUC-KR=korean,latin-1

sequence.allfonts.GB18030=chinese-gb18030,latin-1

sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf

filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf

filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf

filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf

filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
filename.DejaVu_LGC_Sans_Mono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf

filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Oblique.ttf
filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-BoldOblique.ttf

filename.Sazanami_Gothic=/usr/share/fonts/japanese/TrueType/sazanami-gothic.ttf
filename.Sazanami_Mincho=/usr/share/fonts/japanese/TrueType/sazanami-mincho.ttf
filename.AR_PL_ShanHeiSun_Uni=/usr/share/fonts/chinese/TrueType/uming.ttf
filename.AR_PL_ZenKai_Uni=/usr/share/fonts/chinese/TrueType/ukai.ttf
filename.Baekmuk_Gulim=/usr/share/fonts/korean/TrueType/gulim.ttf
filename.Baekmuk_Batang=/usr/share/fonts/korean/TrueType/batang.ttf

<component name="CopyrightManager">

<copyright>

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or visit www.oracle.com if you need additional information or have any
questions." />

<option name="keyword" value="Copyright" />

<option name="allowReplaceKeyword" value="" />

<option name="myName" value="langtools" />

<option name="myLocal" value="true" />

</copyright>

</component>

<component name="CopyrightManager">

<settings default="langtools">

<LanguageOptions name="JAVA">

<option name="fileLocation" value="1" />

</LanguageOptions>

</settings>

</component>

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```
<component name="CopyrightManager">  
  <settings default="" />  
</component>
```

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```

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* or visit www.oracle.com if you need additional information or have any
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```
* questions.
```

```
*/
```

```

package build.tools.cldrconverter;

import java.util.Calendar;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;

class CopyrightHeaders {
    private static final String ORACLE2012 =
        "/*\n" +
        " * Copyright (c) %d, Oracle and/or its affiliates. All rights reserved.\n" +
        " */\n";

    private static final String ORACLE_AFTER2012 =
        "/*\n" +
        " * Copyright (c) 2012, %d, Oracle and/or its affiliates. All rights reserved.\n" +
        " */\n";

    // Last updated: - 6/06/2016, 1:42:31 PM
    private static final String UNICODE =
        "/*\n" +
        " * COPYRIGHT AND PERMISSION NOTICE\n" +
        " *\n" +
        " * Copyright (C) 1991-2016 Unicode, Inc. All rights reserved.\n" +
        " * Distributed under the Terms of Use in \n" +
        " * http://www.unicode.org/copyright.html.\n" +
        " *\n" +
        " * Permission is hereby granted, free of charge, to any person obtaining\n" +
        " * a copy of the Unicode data files and any associated documentation\n" +
        " * (the \"Data Files\") or Unicode software and any associated documentation\n" +
        " * (the \"Software\") to deal in the Data Files or Software\n" +
        " * without restriction, including without limitation the rights to use,\n" +
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        " * or Software are furnished to do so, provided that\n" +
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" */\n";

```

```
private static String OPENJDK2012 =
```

```

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" */\n";

```

```
private static String OPENJDK_AFTER2012 =
```

```

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" * or visit www.oracle.com if you need additional information or have any\n" +
" * questions.\n" +
" */\n";

static String getOracleCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? ORACLE_AFTER2012 : ORACLE2012, year);
}

static String getUnicodeCopyright() {
    return UNICODE;
}

static String getOpenJDKCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? OPENJDK_AFTER2012 : OPENJDK2012, year);
}

private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
        Locale.US).get(Calendar.YEAR);
}

// no instantiation
private CopyrightHeaders() {
}
#
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#
```

platform=bsd

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*/

/**

* @test

* @bug 4886069 8023045

* @summary Confirm that printer recognizes the Legal selection either by

* prompting the user to put Legal paper or automatically selecting

* the tray containing Legal Paper. The printout image should not

* be shifted up by about 3".

* @run main/manual PrintTest

*

*/

import java.awt.*;

import java.awt.event.*;

import javax.swing.*;

import javax.swing.border.*;

import java.awt.print.*;

import javax.print.*;

import javax.print.attribute.*;

import javax.print.attribute.standard.*;

import java.io.*;

```

public class PrintTest extends JFrame {
    private JPanel contentPane;
    private JMenuBar jMenuBar1 = new JMenuBar();
    private JMenu jMenuFile = new JMenu();
    private JMenuItem jMenuItem1 = new JMenuItem();
    private BorderLayout borderLayout1 = new BorderLayout();
    private JPanel jPanel1 = new JPanel();
    private BorderLayout borderLayout2 = new BorderLayout();
    private JScrollPane jScrollPane1 = new JScrollPane();
    private JTextArea jTextArea1 = new JTextArea();
    private Border border1;

    //Construct the frame
    public PrintTest() {
        enableEvents(AWTEvent.WINDOW_EVENT_MASK);
        try {
            jbInit();
        }
        catch(Exception e) {
            e.printStackTrace();
        }
    }
    private void jbInit() throws Exception {
        contentPane = (JPanel) this.getContentPane();
        border1 = BorderFactory.createLineBorder(Color.black,1);
        contentPane.setLayout(borderLayout1);
        this.setTitle("Print Test");
        jMenuFile.setText("File");
        jMenuItem1.setText("Print");
        jMenuItem1.setAccelerator(javax.swing.KeyStroke.getKeyStroke(80, java.awt.event.KeyEvent.CTRL_MASK,
false));
        jMenuItem1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(ActionEvent e) {
                jMenuItem1_actionPerformed(e);
            }
        });
        jPanel1.setLayout(borderLayout2);
        jTextArea1.setBorder(border1);
        jTextArea1.setText("1. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
            "2. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
            "3. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
            "4. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
            "5. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
            "6. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
            "7. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
            "8. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
            "9. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+

```

```

"10. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
"11. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
"12. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
"13. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
"14. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
"15. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
"16. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
"17. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
"18. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
"19. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
"20. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
"21. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
"22. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
"23. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
"24. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
"25. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
"26. This is a printer test designed to illustrate a bug in the java printing API.\n\n"+
"27. This is a printer test designed to illustrate a bug in the java printing API.");
jMenuItem1.add(jMenuItem1);
contentPane.add(jPanel1, BorderLayout.CENTER);
jPanel1.add(jScrollPane1, BorderLayout.CENTER);
jScrollPane1.getViewport().add(jTextArea1, null);
jScrollPane1.setPreferredSize(new Dimension(468,648));
jTextArea1.setPreferredSize(new Dimension(468,864));
jMenuBar1.add(jMenuItem1);
this.setJMenuBar(jMenuBar1);
}

protected void processWindowEvent(WindowEvent e) {
    super.processWindowEvent(e);
    if (e.getID() == WindowEvent.WINDOW_CLOSING) {
        System.exit(0);
    }
}

void jMenuItem1_actionPerformed(ActionEvent e) {
    PrintUtils.printComponent(jTextArea1);
}

public static class PrintUtils implements Printable {
    private JComponent componentToBePrinted;
    protected double scale =1.0;
    PrintRequestAttributeSet pras = new HashPrintRequestAttributeSet();
}

```



```

public static void printComponent(JComponent c) {
    new PrintUtils(c).print();
}

public PrintUtils(JComponent componentToBePrinted) {
    this.componentToBePrinted = componentToBePrinted;
}

void print() {
    DocFlavor flavor = DocFlavor.SERVICE_FORMATTED.PRINTABLE;
    pras.add(MediaSizeName.NA_LEGAL);

    PrintService printService[] = PrintServiceLookup.lookupPrintServices(flavor,pras);
    PrintService defaultService = PrintServiceLookup.lookupDefaultPrintService();
    if ((defaultService == null) || (printService.length == 0)) {
        System.out.println("No default print service found. Test aborted.");
        return;
    }

    PrintService service = ServiceUI.printDialog(null,100,100,printService,defaultService,flavor,pras);

    if(service != null) {
        DocPrintJob job = service.createPrintJob();
        DocAttributeSet das = new HashDocAttributeSet();

        Doc doc = new SimpleDoc(this,flavor,das);

        try {
            job.print(doc,pras);

        } catch(PrintException pe) {
            pe.printStackTrace();
        }
    }
}

public int print(Graphics g, PageFormat pageFormat, int pageIndex)
{

    double h=componentToBePrinted.getHeight();
    double pageHeight=pageFormat.getImageableHeight();

    if (pageIndex * pageHeight > h * scale) {
        return(NO_SUCH_PAGE);
    } else {

```

```

Graphics2D g2d = (Graphics2D)g;

//move past unprintable area
double xOffset=pageFormat.getImageableX();
double yOffset=pageFormat.getImageableY();
g2d.translate(xOffset,yOffset);

//move to correct page taking into account the scaling
double newX=0;
double newY=pageHeight*(-pageIndex);
g2d.translate(newX / 1.0,newY / 1.0 );

//print

componentToBePrinted.print(g2d);
return(PAGE_EXISTS);
}
}

public static void disableDoubleBuffering(Component c) {
    RepaintManager currentManager = RepaintManager.currentManager(c);
    currentManager.setDoubleBufferingEnabled(false);
}

/** Re-enables double buffering globally. */

public static void enableDoubleBuffering(Component c) {
    RepaintManager currentManager = RepaintManager.currentManager(c);
    currentManager.setDoubleBufferingEnabled(true);
}
}

public static void main(String[] args) {
    try {
        UIManager.setLookAndFeel(UIManager.getSystemLookAndFeelClassName());
    }
    catch(Exception e) {
        e.printStackTrace();
    }
    PrintTest frame = new PrintTest();
    frame.pack();

    Dimension screenSize = Toolkit.getDefaultToolkit().getScreenSize();
    Dimension frameSize = frame.getSize();
    if (frameSize.height > screenSize.height) {
        frameSize.height = screenSize.height;

```

```

    }
    if (frameSize.width > screenSize.width) {
        frameSize.width = screenSize.width;
    }
    frame.setLocation((screenSize.width - frameSize.width) / 2, (screenSize.height - frameSize.height) / 2);
    frame.setVisible(true);
}

}

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 *
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 * or visit www.oracle.com if you need additional information or have any
 * questions.
 */

/**
 *
 */
import java.rmi.Remote;
public interface Legal extends Remote {};

```

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1.6 antd 3.22.0

1.6.1 Available under license :

```
---  
order: 1  
title:  
zh-CN:  
en-US: Notice Calendar  
---
```

```
## zh-CN
```

```
`dateCellRender` `monthCellRender`
```

```
## en-US
```

This component can be rendered by using `dateCellRender` and `monthCellRender` with the data you need.

```
```jsx  
import { Calendar, Badge } from 'antd';

function getListData(value) {
 let listData;
 switch (value.date()) {
 case 8:
 listData = [
 { type: 'warning', content: 'This is warning event.' },
 { type: 'success', content: 'This is usual event.' },
];
 break;
 case 10:
 listData = [
 { type: 'warning', content: 'This is warning event.' },
 { type: 'success', content: 'This is usual event.' },
 { type: 'error', content: 'This is error event.' },
];
 break;
 case 15:
 listData = [
 { type: 'warning', content: 'This is warning event' },
 { type: 'success', content: 'This is very long usual event....' },
];
 }
}
```

```

 { type: 'error', content: 'This is error event 1.' },
 { type: 'error', content: 'This is error event 2.' },
 { type: 'error', content: 'This is error event 3.' },
 { type: 'error', content: 'This is error event 4.' },
];
 break;
default:
}
return listData || [];
}

function dateCellRender(value) {
 const listData = getListData(value);
 return (
 <ul className="events">
 {listData.map(item => (
 <li key={item.content}>
 <Badge status={item.type} text={item.content} />

))}

);
}

function getMonthData(value) {
 if (value.month() === 8) {
 return 1394;
 }
}

function monthCellRender(value) {
 const num = getMonthData(value);
 return num ? (
 <div className="notes-month">
 <section>{num}</section>
 Backlog number
 </div>
) : null;
}

ReactDOM.render(
 <Calendar dateCellRender={dateCellRender} monthCellRender={monthCellRender} />,
 mountNode,
);
```

```css
.events {

```

```
list-style: none;
margin: 0;
padding: 0;
}
.events .ant-badge-status {
overflow: hidden;
white-space: nowrap;
width: 100%;
text-overflow: ellipsis;
font-size: 12px;
}
.notes-month {
text-align: center;
font-size: 28px;
}
.notes-month section {
font-size: 28px;
}
...

```

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## 1.7 anytree 2.6.0



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```

```
cat LICENSE
```

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

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Public License instead of this License. But first, please read

<<http://www.gnu.org/philosophy/why-not-lgpl.html>>.

From mikel@ora.com Tue Aug 1 12:13:20 1995

Flags: 10

Return-Path: mikel@ora.com

Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTTP

(8.6.12+cwru/CWRU-2.1-ins)

id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)

Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400

Received: by los.ora.com (4.1/Spike-2.1)

id AA00672; Tue, 1 Aug 95 08:57:32 EDT

Date: Tue, 1 Aug 95 08:57:32 EDT

From: mikel@ora.com (Michael Loukides)

Message-Id: <9508011257.AA00672@los.ora.com>

Subject: Re: Ksh debugger from Rosenblatt's book [for bash]

To: Chet Ramey <chet@odin.INS.CWRU.Edu>

Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com

In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book. (Too late to actually discuss the thing, at least for this edition).

-----

From specdt@armory.com Wed May 10 10:21:11 1995

Flags: 10

Return-Path: specdt@armory.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTTP

(8.6.10+cwru/CWRU-2.1-ins)

id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from specdt@armory.com for <chet@odin.INS.CWRU.Edu>)

Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from specdt@armory.com for <chet@po.cwru.edu>)

From: John DuBois <specdt@armory.com>

Date: Tue, 9 May 1995 22:33:12 -0700

In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>

"ksh scripts" (May 9, 1:36pm)

X-Www: <http://www.armory.com/~specdt/>

X-Mailer: Mail User's Shell (7.2.5 10/14/92)

To: chet@po.cwru.edu

Subject: Re: ksh scripts

Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
```

```
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
```

```
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
```

```
}
} Chet Ramey
```

```
}
```

```
} --
} ``The lyf so short, the craft so long to lerne." - Chaucer
```

```
}
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey
```

From friedman@cli.com Thu May 25 12:19:06 1995

Flags: 10

Return-Path: friedman@cli.com

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id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)

Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)

Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)  
id AA27213; Thu, 25 May 95 11:18:25 CDT  
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT  
Message-Id: <9505251618.AA16031@tepucli.com>  
From: friedman@gnu.ai.mit.edu (Noah Friedman)  
To: chet@po.cwru.edu  
Subject: Bash scripts  
Reply-To: friedman@gnu.ai.mit.edu  
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400  
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>  
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on  
>the FSF machines (naughty, I know), and I was wondering if you'd let  
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in  
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and  
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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

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

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived 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

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<!-- 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, '#10;'))"/>
 <xsl:text>#10;</xsl:text>
 <xsl:variable name="rest" select="substring-after($text, '#10;')"/>
 <xsl:if test="translate($rest, '#9;#32;', '')">
 <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:for-each>
 </xsl:with-param>
 </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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<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, '#10;'))"/>

<xsl:text>#10;</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '#10;')"/>

<xsl:if test="translate(\$rest, '#9;#32;', '')">

<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>
</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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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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

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

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived 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>

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## 1.25 binutils 2.27 :34.base.el7

### 1.25.1 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](mailto: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.

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus

Solutions. Richard Henderson then rewrote much of the Alpha support.

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

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

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

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

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

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

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(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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@item

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

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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

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

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

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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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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.

@item

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.

@item

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

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

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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.)

@item

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

@item

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

@item

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

@item

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

@end enumerate

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

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

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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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@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}

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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

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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



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

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## 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.

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

## 6. Conveying Non-Source Forms.

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

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium

customarily used for software interchange.

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

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

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

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

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```
@c Local Variables:
@c ispell-local-dict: "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](mailto: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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```

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```
Gnomovision version 69, Copyright (C) year name of author
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```

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

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## 1.27 boost 1.53.0 :27.e17

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//

// See <http://www.boost.org/libs/intrusive> for documentation.

//

////////////////////////////////////

#ifndef BOOST\_INTRUSIVE\_DETAIL\_MPL\_HPP

#define BOOST\_INTRUSIVE\_DETAIL\_MPL\_HPP

#include <boost/intrusive/detail/config\_begin.hpp>

#include <cstddef>

```
namespace boost {
namespace intrusive {
namespace detail {
```

```
typedef char one;
struct two { one _[2];};
```

```
template< bool C_ >
struct bool_
{
 static const bool value = C_;
};
```

```
typedef bool_<true> true_;
typedef bool_<false> false_;
```

```
typedef true_ true_type;
typedef false_ false_type;
```

```
typedef char yes_type;
struct no_type
{
```

```

char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
 typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T>{};

template<class F, class Param>
struct apply
{
 typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible
{
 typedef char true_t;
 class false_t { char dummy[2]; };
 static true_t dispatch(U);
 static false_t dispatch(...);
 static const T &trigger();
public:
 static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
 bool C
 , typename T1
 , typename T2
 >
struct if_c
{
 typedef T1 type;
};

template<
 typename T1
 , typename T2
 >
struct if_c<false,T1,T2>
{

```

```

 typedef T2 type;
};

template<
 typename C
 , typename T1
 , typename T2
 >
struct if_
{
 typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
 bool C
 , typename F1
 , typename F2
 >
struct eval_if_c
 : if_c<C,F1,F2>::type
{};

template<
 typename C
 , typename T1
 , typename T2
 >
struct eval_if
 : if_c<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
 typedef T type;
};

#ifdef BOOST_MSVC || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif

#ifdef _MSC_EXTENSIONS && !defined(__BORLAND__) && !defined(_WIN64) &&
!defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

```

```

template <typename T>
struct is_unary_or_binary_function_impl
{ static const bool value = false; };

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)()>
{ static const bool value = true; };

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(>...>
{ static const bool value = true; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)()>
{ static const bool value = true; };

#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)()>
{ static const bool value = true; };

#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)()>
{ static const bool value = true; };

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(>...>
{ static const bool value = true; };

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(>T0>
{ static const bool value = true; };

```

```

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{ static const bool value = true; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>
{ static const bool value = true; };

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{ static const bool value = true; };

#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>
{ static const bool value = true; };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{ static const bool value = true; };

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{ static const bool value = true; };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{ static const bool value = true; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{ static const bool value = true; };

#endif

#ifndef _MANAGED

```

```

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{ static const bool value = true; };

#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{ static const bool value = true; };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{ static const bool value = true; };
#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{ static const bool value = false; };

template<typename T>
struct is_unary_or_binary_function
{ static const bool value = is_unary_or_binary_function_impl<T>::value; };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
 char c;
 T t;
 alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
 static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
 static const std::size_t value = alignment_logic
 < sizeof(alignment_of_hack<T>) - sizeof(T)
 , sizeof(T)

```

```

 >::value;
};

template <typename T, typename U>
struct is_same
{
 typedef char yes_type;
 struct no_type
 {
 char padding[8];
 };

 template <typename V>
 static yes_type is_same_tester(V*, V*);
 static no_type is_same_tester(...);

 static T *t;
 static U *u;

 static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{ typedef const T type; };

template<typename T>
struct remove_const
{ typedef T type; };

template<typename T>
struct remove_const<const T>
{ typedef T type; };

template<typename T>
struct remove_cv
{ typedef T type; };

template<typename T>
struct remove_cv<const T>
{ typedef T type; };

template<typename T>
struct remove_cv<const volatile T>
{ typedef T type; };

template<typename T>
struct remove_cv<volatile T>

```



```

{ typedef T type; };

template<class T>
struct remove_reference
{
 typedef T type;
};

template<class T>
struct remove_reference<T&>
{
 typedef T type;
};

template<class Class>
class is_empty_class
{
 template <typename T>
 struct empty_helper_t1 : public T
 {
 empty_helper_t1();
 int i[256];
 };

 struct empty_helper_t2
 { int i[256]; };

 public:
 static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
 static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
 static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
 static const std::size_t value = 0;
};

```

```

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
////////////////////////////////////
//
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// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/interprocess for documentation.
//
////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
 static const T value = val;
 typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
 static const bool value = C_;
};

typedef bool_<true> true_;
typedef bool_<false> false_;

```

```

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
 char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
 typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
 typedef char true_t;
 class false_t { char dummy[2]; };
 static true_t dispatch(U);
 static false_t dispatch(...);
 static T trigger();
public:
 static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
 bool C
 , typename T1
 , typename T2
>
struct if_c
{
 typedef T1 type;
};

template<
 typename T1

```

```

 , typename T2
 >
struct if_c<false,T1,T2>
{
 typedef T2 type;
};

template<
 typename T1
 , typename T2
 , typename T3
 >
struct if_
{
 typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
 template<class OtherPair>
 const typename Pair::first_type& operator()(const OtherPair& x) const
 { return x.first; }

 const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
 { return x; }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
{
 typedef T type;
 const T& operator()(const T& x) const
 { return x; }
};

template<std::size_t S>
struct ls_zeros
{
 static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>

```

```

{
 static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
 static const std::size_t value = 0;
};

} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#endif //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
////////////////////////////////////
//
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//
// See http://www.boost.org/libs/container for documentation.
//
////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
pragma once
#endif

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant
{
 static const T value = val;
 typedef integral_constant<T,val> type;
};

template< bool C_ >

```

```

struct bool_ : integral_constant<bool, C_>
{
 static const bool value = C_;
 operator bool() const { return bool_::value; }
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
 char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
 typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
 typedef char true_t;
 class false_t { char dummy[2]; };
 static true_t dispatch(U);
 static false_t dispatch(...);
 static T trigger();
public:
 enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
};

template<

```

```

 bool C
 , typename T1
 , typename T2
 >
struct if_c
{
 typedef T1 type;
};

template<
 typename T1
 , typename T2
 >
struct if_c<false,T1,T2>
{
 typedef T2 type;
};

template<
 typename T1
 , typename T2
 , typename T3
 >
struct if_
{
 typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
 template<class OtherPair>
 const typename Pair::first_type& operator()(const OtherPair& x) const
 { return x.first; }

 const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
 { return x; }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
{
 typedef T type;
 const T& operator()(const T& x) const

```

```

 { return x; }
};

template<std::size_t S>
struct ls_zeros
{
 static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
 static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
 static const std::size_t value = 0;
};

template <typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };

} //namespace container_detail {
} //namespace container {
} //namespace boost {

#ifdef //ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
[/=====
Boost.Geometry (aka GGL, Generic Geometry Library)

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=====/]

=====
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[/
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```
http://www.boost.org/LICENSE_1_0.txt).
```

```
]
```

```
<html>
```

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<head>
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<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
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```
<title>MPL Interoperability</title>
```

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```

```
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```

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<link rel="home" href="../../index.html" title="Chapter 1. Boost.TypeTraits">
```

```
<link rel="up" href="../../index.html" title="Chapter 1. Boost.TypeTraits">
```

```

<link rel="prev" href="intrinsic.html" title="Support for Compiler Intrinsic">
<link rel="next" href="examples.html" title="Examples">
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<td align="center">Home</td>
<td align="center">Libraries</td>
<td align="center">People</td>
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<td align="center">More</td>
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href="../../index.html"><a accesskey="n"
href="examples.html">
</div>
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<div class="titlepage"><div><div><h2 class="title" style="clear: both">
MPL
Interoperability
</h2></div></div></div>
<p>
All the value based traits in this library conform to MPL's requirements for
an Integral
Constant type: that includes a number of rather intrusive workarounds
for broken compilers.
</p>
<p>
Purely as an implementation detail, this means that <code class="computeroutput"><a class="link"
href="reference/integral_constant.html" title="integral_constant">true_type</code>
inherits from <code
class="computeroutput">boost::mpl::true_</code>,
<code class="computeroutput"><a class="link" href="reference/integral_constant.html"
title="integral_constant">false_type</code>
inherits from <code
class="computeroutput">boost::mpl::false_</code>,
and <code class="computeroutput"><a class="link" href="reference/integral_constant.html"
title="integral_constant">integral_constantT,
<code class="computeroutput">v</code>
inherits from <code
class="computeroutput">boost::mpl::integral_c<span

```

```

class="special">T,v></code>
 (provided <code class="computeroutput">T</code> is not <code
class="computeroutput">bool</code>)
 </p>
</div>
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<td align="left"></td>
<td align="right"><div class="copyright-footer">Copyright © 2000, 2011 Adobe Systems Inc, David
Abrahams,
 Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant,
 Jesse Jones, Mat Marcus, Itay Maman, John Maddock, Alexander Nasonov, Thorsten
 Ottosen, Roman Perepelitsa, Robert Ramey, Jeremy Siek, Robert Stewart and Steven
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target="_top">http://www.boost.org/LICENSE_1_0.txt)
 </p>
</div></td>
</tr></table>
<hr>
<div class="spirit-nav">
<a accesskey="h"
href="index.html"><a accesskey="n"
href="examples.html">
</div>
</body>
</html>
[/
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]

```

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an [ @ ../../libs/mpl/doc/refmanual/integral-constant.html Integral Constant type]: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from [ @ ../../libs/mpl/doc/refmanual/bool.html `boost::mpl::true_` ], `__false_type` inherits from [ @ ../../libs/mpl/doc/refmanual/bool.html `boost::mpl::false_` ], and `__integral_constant<T, v>` inherits from

[@../.../libs/impl/doc/refmanual/integral-c.html `boost::mpl::integral\_c<T,v>`] (provided `T` is not `bool`)

[endsect]

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-->

<section id="date\_time.license">

<title>Boost Date-Time Library License</title>

<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>

<!--

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<imagedata align="left"

format="GIF"

fileref="../..../boost.png"

alt="C++ Boost" />

</ulink>-->

<!--hr /-->

<para>

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</para>

<para>

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</para>

<!--hr / -->

<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>

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</section>

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[article Invalid copyright years

[quickbook 1.5]

[copyright 2010-2001 Timequake man]

]

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<!DOCTYPE article PUBLIC "-//Boost/DTD BoostBook XML V1.0//EN"
```

```
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<copyright>
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</copyright>
```

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</articleinfo>
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</article>
```

[article Copyright Test

[quickbook 1.5]

[copyright 1963-1965 Jane Doe, 2018 Joe Blow, John Coe]

[copyright 1977,1985 Someone else]

]

[article Invalid copyright

[quickbook 1.5]

[copyright No year]

]

Maybe this should pass?

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.) This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

Copyright:

```
/+\
+\ Copyright 1993-2002 Christopher Seiwald and Perforce Software, Inc.
\+/
```

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```
/*
 *
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 * Boost Software License, Version 1.0. (See accompanying file
 * LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
 *
 */
```

```
#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <string>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
```



```

{
 const fs::path& root;
 const fs::path& file;
 split_path(const fs::path& r, const fs::path& f)
 : root(r), file(f){}
private:
 split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
 os << "<a href=\"\" << (p.root / p.file).string() << "\">" << p.file.string() << "";
 return os;
}

std::string make_link_target(const std::string& s)
{
 // convert an arbitrary string into something suitable
 // for an <a> name:
 std::string result;
 for(unsigned i = 0; i < s.size(); ++i)
 {
 result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
 }
 return result;
}

void bcp_implementation::output_license_info()
{
 std::pair<const license_info*, int> licenses = get_licenses();

 std::map<int, license_data>::const_iterator i, j;
 i = m_license_data.begin();
 j = m_license_data.end();

 std::ofstream os(m_dest_path.string().c_str());
 if(!os)
 {
 std::string msg("Error opening ");
 msg += m_dest_path.string();
 msg += " for output.";
 std::runtime_error e(msg);
 boost::throw_exception(e);
 }
 os <<
 "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\">\n"
 "<html>\n"

```

```

"<head>\n"
"<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
 os << " for " << *(m_module_list.begin());
}
os <<
"</title>\n"
"</head>\n"
"<body>\n"
"<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
 os << " for " << *(m_module_list.begin());
}
os <<
"</H1>\n"
"<H2>Contents</h2>\n"
"<pre>Input Information\n";
if(!m_bsl_summary_mode)
 os << "Licence Summary\n";
os << "Licence Details\n";

while(i != j)
{
 // title:
 os << " <A href=\"#\" << make_link_target(licenses.first[i->first].license_name)
 << "\">" << licenses.first[i->first].license_name << "\n";
 ++i;
}

os << "Files with no recognised license\n"
"Files with no recognised copyright holder\n";
if(!m_bsl_summary_mode)
{
 os <<
"Moving to the Boost Software License...\n"
" Files that can be automatically converted to the Boost Software License\n"
" Files that can be manually converted to the Boost Software License\n"
" Files that can NOT be moved to the Boost Software License\n"
" Authors we need to move to the Boost Software License\n"
"Copyright Holder Information\n";
}
os <<
"File Dependency Information\n"
"</pre>";

//

```

```

// input Information:
//
os << "<h2>Input Information</h2>\n";
if(m_scan_mode)
 os << "<P>The following files were scanned for boost dependencies:
";
else
 os << "<P>The following Boost modules were checked:
";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
 os << *si << "
";
 ++si;
}
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
 "^[[:blank:]]*#[[:blank:]]*define[[:blank:]]+BOOST_VERSION[[:blank:]]+(\\d+)");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
 int version = boost::lexical_cast<int>(what.str(1));
 os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
<< "</P>\n";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
 //
 // start with the summary:
 //
 os << "<h2>Licence Summary</h2>\n";
 while(i != j)
 {
 // title:
 os <<
 "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
 }
}

```

```

// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
// Copyright holders:
os << "<P>This license is used by " << i->second.authors.size()
 << " authors and " << i->second.files.size()
 << " files <a href=\"#" << make_link_target(licenses.first[i->first].license_name) << "\">(see details)";
os << "</P></BLOCKQUOTE>\n";
 ++i;
}
}
//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<h2>Licence Details</h2>\n";
while(i != j)
{
 // title:
 os <<
 "<H3><A name=\"" << make_link_target(licenses.first[i->first].license_name)
 << "\">" << licenses.first[i->first].license_name << "</H3>\n";
 // license text:
 os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
 if(!m_bsl_summary_mode || (license_index >= 3))
 {
 // Copyright holders:
 os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:</P>\n<BLOCKQUOTE><P>";
 std::set<std::string>::const_iterator x, y;
 x = i->second.authors.begin();
 y = i->second.authors.end();
 while(x != y)
 {
 os << *x << "
\n";
 ++x;
 }
 os << "</P></BLOCKQUOTE>\n";
 // Files using this license:
 os << "<P>This license applies to the following " << i->second.files.size() << "
files:</P>\n<BLOCKQUOTE><P>";
 std::set<fs::path, path_less>::const_iterator m, n;
 m = i->second.files.begin();
 n = i->second.files.end();
 while(m != n)
 {
 os << split_path(m_boost_path, *m) << "
\n";

```

```

 ++m;
 }
 os << "</P></BLOCKQUOTE>\n";
}
else
{
 os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
 os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}
//
// Output list of files not found to be under license control:
//
os << "<h2>Files With No Recognisable Licence</h2>\n"
 "<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P><BLOCKQUOTE><P>\n";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
 os << split_path(m_boost_path, *i2) << "
\n";
 ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
os << "<h2>Files With No Recognisable Copyright Holder</h2>\n"
 "<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P>\n<BLOCKQUOTE><P>";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
 os << split_path(m_boost_path, *i2) << "
\n";
 ++i2;
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
 //
 // Output list of files that have been moved over to the Boost
 // Software License, along with enough information for human
 // verification.
 //

```

```

os << "<h2>Files that can be automatically converted to the Boost Software
License</h2>\n"
 << "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:</P>\n";
if (!m_converted_to_bsl.empty())
{
 typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
 ::const_iterator conv_iterator;
 conv_iterator i = m_converted_to_bsl.begin(),
 ie = m_converted_to_bsl.end();
 int file_num = 1;
 while (i != ie)
 {
 os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
 << "</tt>
\n<table border=\"1\">\n <tr>\n <td><pre>"
 << i->second.first << "</pre></td>\n <td><pre>"
 << i->second.second << "</pre></td>\n </tr>\n</table>\n";
 ++i;
 ++file_num;
 }
}
//
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2>Files that could be converted to the Boost Software License</h2>\n"
 "<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost
Software License, but have not yet been:</P>\n<BLOCKQUOTE><P>";
i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
 os << split_path(m_boost_path, *i2) << "
\n";
 ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2>Files that can NOT be converted to the Boost Software
License</h2>\n"
 "<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software
License because we need the permission of more authors:</P>\n<BLOCKQUOTE><P>";
i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
 os << split_path(m_boost_path, *i2) << "
\n";
 ++i2;
}

```

```

}
os << "</p></BLOCKQUOTE>";
//
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2>Authors we need for the BSL</h2>\n"
 "<P>Permission of the following authors is needed before we can convert to the Boost Software License. The
list of authors that have given their permission is contained in <code>more/blanket-
permission.txt</code>.</P>\n<BLOCKQUOTE><P>";
 std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
 std::ostream_iterator<std::string>(os, "
\n"));
os << "</p></BLOCKQUOTE>";
//
// output a table of copyright information:
//
os << "<H2>Copyright Holder Information</H2><table border=\"1\">\n";
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
 os << "<tr><td>" << ad->first << "</td><td>";
 std::set<fs::path, path_less>::const_iterator fi, efi;
 fi = ad->second.begin();
 efi = ad->second.end();
 while(fi != efi)
 {
 os << split_path(m_boost_path, *fi) << " ";
 ++fi;
 }
 os << "</td></tr>\n";
 ++ad;
}
os << "</table>\n";
}

//
// output file dependency information:
//
os << "<H2>File Dependency Information</H2><BLOCKQUOTE><pre>\n";
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{

```

```

bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
 ::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
 ie = m_converted_to_bsl.end();
while(i != ie)
{
 bad_paths.insert(i->first);
 ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
 os << split_path(m_boost_path, *fi);
 dep = m_dependencies.find(*fi);
 last_dep = m_dependencies.end();
 std::set<fs::path, path_less> seen_deps;
 if (dep != last_dep)
 while(true)
 {
 os << " -> ";
 if(fs::exists(m_boost_path / dep->second))
 os << split_path(m_boost_path, dep->second);
 else if(fs::exists(dep->second))
 os << split_path(fs::path(), dep->second);
 else
 os << dep->second.string();
 if(seen_deps.find(dep->second) != seen_deps.end())
 {
 os << " <I>(Circular dependency!)</I>";
 break; // circular dependency!!!
 }
 seen_deps.insert(dep->second);
 last_dep = dep;
 dep = m_dependencies.find(dep->second);
 if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
 break;
 }
 os << "\n";
 ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

```



```

os << "</body></html>\n";

if(!os)
{
 std::string msg("Error writing to ");
 msg += m_dest_path.string();
 msg += ".";
 std::runtime_error e(msg);
 boost::throw_exception(e);
}
}

```

Index: boost/mpl/print.hpp

```

--- boost/mpl/print.hpp (revision 83411)
+++ boost/mpl/print.hpp (working copy)
@@ -45,22 +45,21 @@
 : mpl::identity<T>
#if defined(__MWERKS__)
 , aux::print_base
-#endif
+#endif
{
#if defined(BOOST_MSVC)
 enum { n = sizeof(T) + -1 };
#elif defined(__MWERKS__)
 void f(int);
-#else
- enum {
- n =
-# if defined(__EDG_VERSION__)
- aux::dependent_unsigned<T>::value > -1
-# else
- sizeof(T) > -1
-# endif
- };
-#endif
+#elif defined(__EDG_VERSION__)
+ enum { n = aux::dependent_unsigned<T>::value > -1 };
+#elif defined(BOOST_GCC)
+ enum { n1 };
+ enum { n2 };
+ enum { n = n1 != n2 };
+#else
+ enum { n = sizeof(T) > -1 };
+#endif
};

```

#if defined(BOOST\_MSVC)

# 1.28 Bootstrap18col.min.js 3.3.7

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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## 1.32 bzip2-libs 1.0.6 :13.el7

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

## 1.33 ca-certificates 2018.2.22 :70.0.el7\_5

## 1.34 cadvisor 0.28.3

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# 1.35 case-sensitive-paths-webpack-plugin

## 2.2.0

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One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

#### Contributors:

The Red Hat developers, without whom CentOS would look very different

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Name: ceph

Maintainer: Sage Weil <sage@newdream.net>

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## 1.46 cifs-utils 6.2 :10.e17

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## 1.48 cluster-glue 1.0.5 :6.el6

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src/xxhash.[ch] src/lz4*.ch: git@github.com:lz4/lz4.git e2827775ee80d2ef985858727575df31fc60f1f3
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## 1.60 coreutils 8.22 :23.el7

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## 1.61 corosync 2.4.3 :4.e17

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,

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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.

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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.

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

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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) 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.

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

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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.

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

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

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

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

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

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

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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.

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.

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- 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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## END OF TERMS AND CONDITIONS

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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.>

Copyright (C) <year> <name of author>

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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:

Yoyodyne, Inc., hereby disclaims all copyright interest in the 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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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected  
in released code until Nov 2009 - slow release cycle...)  
-----

Discussion thread from mailing list archive, with approval from everyone actively  
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license  
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML  
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
r=20  
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
=2Dmike

Re: [Cracklib-devel] cracklib license  
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18  
I understand that, and you're welcome to bring it up with Alec directly  
and see if he wants to relicense his code as LGPL... but at this point,  
it was enough to just get it consistent and documented as to what it was  
released under. This wasn't actually a license change, just a  
clarification of the licensing that was already in place.=20

-- Nathan  
=20

-----  
Nathan Neulinger EMail: nneul@um...  
University of Missouri - Rolla Phone: (573) 341-6679  
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----  
> From: cracklib-devel-bounces@li...  
> [mailto:cracklib-devel-bounces@li...] On Behalf Of  
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:15 PM  
> To: cracklib-devel@li...  
> Subject: [Cracklib-devel] cracklib license

>=20  
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing  
> libraries under  
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
> -mike

Re: [Cracklib-devel] cracklib license  
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly  
> and see if he wants to relicense his code as LGPL... but at this point,  
> it was enough to just get it consistent and documented as to what it was  
> released under. This wasn't actually a license change, just a  
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20  
GPL-2 ... it was a modified artistic license ... i didnt notice the license=  
=20  
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=  
eir=20  
applications are also GPL-2 which imo is just wrong. it isnt the place of =  
a=20  
library to dictact to application writes what license they should be using.=  
=20  
thus LGPL-2.1 enters to fill this void.  
=2Dmike

Re: [Cracklib-devel] cracklib license  
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46  
Seems like the ideal thing here would be for you and the other distro  
maintainers to get together with Alec in a conversation and come to a  
decision as to what licensing scheme y'all want. I haven't really done  
much other than cleaning up the packaging and patches and a small bit of  
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan  
=20

-----  
Nathan Neulinger EMail: nneul@um...  
University of Missouri - Rolla Phone: (573) 341-6679  
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----  
> From: cracklib-devel-bounces@li...  
> [mailto:cracklib-devel-bounces@li...] On Behalf Of  
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:33 PM  
> To: Neulinger, Nathan  
> Cc: cracklib-devel@li...; Alec Muffett  
> Subject: Re: [Cracklib-devel] cracklib license  
>=20  
> On Monday 01 October 2007, Neulinger, Nathan wrote:  
>> I understand that, and you're welcome to bring it up with Alec  
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>> and see if he wants to relicense his code as LGPL... but at this  
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> place of a  
> library to dictact to application writes what license they should  
> be using.  
> thus LGPL-2.1 enters to fill this void.  
> -mike

Re: [Cracklib-devel] cracklib license  
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57  
> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a  
> decision as to what licensing scheme y'all want. I haven't really done  
> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be

linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro  
>> maintainers to get together with Alec in a conversation and come to a  
>> decision as to what licensing scheme y'all want. I haven't really done  
>> much other than cleaning up the packaging and patches and a small  
>> bit of  
>> additional code, so whatever licensing y'all come up with is fine  
>> by me.  
>  
> I am sympathetic. Guys, what do you reckon?  
>  
> What I am hearing so far is that LGPL makes sense, since it can be  
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a  
>>> decision as to what licensing scheme y'all want. I haven't really done  
>>> much other than cleaning up the packaging and patches and a small  
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>>> additional code, so whatever licensing y'all come up with is fine  
>>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

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> My apologies for not chiming in in anything resembling a reasonable  
> timeframe.

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> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we

> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-----

From alecm@crypticide.com Mon Oct 1 12:26:03 2007

Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:03 -0500

Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:02 -0500

Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000

Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623  
for <nneul@umn.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umn.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length: 585  
Lines: 21

>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umn.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

```
#!/usr/bin/python
Copyright 2009, 2012 Jan Dittberner <jan@dittberner.info>
#
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```

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```
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 */
/*
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```



```

*
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*
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\*  
\* @(#)bitstring.h 8.1 (Berkeley) 7/19/93  
\*/

## 1.65 cross-env 5.2.0

### 1.65.1 Available under license :

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## 1.66 crypto and net master

## 1.67 cryptsetup 2.0.3 :3.el7

## 1.67.1 Available under license :

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Version 2.1, February 1999

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<P>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.

<P>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.

<P>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.

<P>We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

<P>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.

<P>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.

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

### <H3>GNU GENERAL PUBLIC LICENSE<BR> TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION</H3>

<OL START="0">

<LI>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 "work based on the Program" 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 "modification".) Each licensee is addressed as "you".

<P>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.

<LI>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.

<P>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.

<LI>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 Section 1 above, provided that you also meet all of these conditions:

<OL TYPE="a">

<LI>You must cause the modified files to carry prominent notices

stating that you changed the files and the date of any change.

<LI>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.

<LI>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. (Exception: 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.)

</OL>

<P>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.

<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 Program.

<P>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.

<LI>You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

<OL TYPE="a">

<LI>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,

<LI>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,

<LI>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.)

</OL>

<P>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.

<P>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.

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<P>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.

<P>It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

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</OL>

<H3>NO WARRANTY</H3>

<OL START="11">

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<LI>IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE 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.

</OL>

<H3>END OF TERMS AND CONDITIONS</H3>

<H3>How to Apply These Terms to Your New Programs</H3>

<P>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.

<P>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.

<PRE>

<VAR>one line to give the program's name and an idea of what it does.</VAR>

Copyright (C) <VAR>yyyy</VAR> <VAR>name of author</VAR>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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 GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

</PRE>

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

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

<PRE>

Gnomovision version 69, Copyright (C) <VAR>year</VAR> <VAR>name of author</VAR>

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details

type `show w'. This is free software, and you are welcome

to redistribute it under certain conditions; type `show c'

for details.

</PRE>

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

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

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

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

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

<P>Version 2, June 1991

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

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

<H3>Preamble</H3>

<P>The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

<P>This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

<P>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.

<P>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.

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

<P>Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

<P>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.

<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.

### <H3>TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION</H3>

<P><STRONG>0.</STRONG>

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.

<P>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.

<P><STRONG>1.</STRONG>

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.

<P>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.

<P><STRONG>2.</STRONG>

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:

<OL TYPE="a">

<LI>The modified work must itself be a software library.

<P>

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

<P>

<LI>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>

<LI>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.)

</OL>

<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.

<P>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.

<P><STRONG>3.</STRONG>

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.

<P>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.

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

<P><STRONG>4.</STRONG>

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.

<P>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.

<P><STRONG>5.</STRONG>

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.

<P>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.

<P>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.

<P>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:

- 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.

- Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

</OL>

<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><STRONG>7.</STRONG>

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">

<LI>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>

<LI>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.

</OL>

<P><STRONG>8.</STRONG>

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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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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

## 1.70 curl 7.29.0 :54.e17

### 1.70.1 Available under license :

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License Mixing with apps, libcurl and Third Party Libraries

=====

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/>

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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](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/>

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

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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>

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# 1.71 cyrus-sasl 2.1.26 :23.e17

## 1.71.1 Available under license :

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

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```

```
#define _KERBEROS_MIT_COPYRIGHT_H
```

```
/* #pragma ident "@(#)mit-copyright.h 1.4 93/02/04 SMI" */
```

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

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



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```
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 * Rob Earhart
 * Rob Siemborski
```

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## 1.72 D3-color.v1.min.js 1.0.2

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## 1.73 D3-interpolate.v1.mi.js 1.1.0

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## 1.80 delete-by-query 2.3.3

## 1.81 desktop-file-utils 0.23 :1.e17

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```
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Copyright (C) <year> <name of author>
```

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

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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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## 1.82 device-mapper-multipath 0.4.9 :123.el7

### 1.82.1 Available under license :

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

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

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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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

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

That's all there is to it!

# 1.83 device-mapper-persistent-data 0.7.3

## :3.el7

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Version 3, 29 June 2007

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

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

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

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\* `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.

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=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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```
<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, '#10;'))"/>
 <xsl:text>#10;</xsl:text>
 <xsl:variable name="rest" select="substring-after($text, '#10;')"/>
 <xsl:if test="translate($rest, '#9;#32;', '')">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text" select="$rest"/>
 </xsl:call-template>
 </xsl:if>
</xsl:template>
```

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<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>
</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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## 1.89 dnsmasq 2.76 :7.e17

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Protocol Buffers for Go with Gadgets

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

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

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

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Gocheck - A rich testing framework for Go

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Gocheck - A rich testing framework for Go

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## 1.93 dotenv 8.0.0

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## 1.94 dotenv-expand 5.1.0

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# 1.95 dracut 033 :554.e17

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It is part of the main e2fsprogs distribution, which can be found at:

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It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
[tsx-11.mit.edu:/pub/linux/packages/ext2fs/](http://tsx-11.mit.edu/pub/linux/packages/ext2fs/)

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Theodore Ts'o  
23-June-2007

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Theodore Ts'o  
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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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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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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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

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```
#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

```
all:: image
```

```
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

image: \$(BSD\_LIB)

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip: install-shlibs

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
```

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\*/

Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
  
- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell            2005
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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(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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analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,

analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,

analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt

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

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and

Ljiljana Dolamic. These files reside in:

analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed by the Egothor project <http://egothor.sf.net/>, created by Leo Galambos, Martin Kvapil, and Edmond Nolan.

The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in `stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt`.

See <http://project.carrot2.org/license.html>.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by [www.imdict.net](http://www.imdict.net).

WordBreakTestUnicode\_\*.java (under `modules/analysis/common/src/test/`)

is derived from Unicode data such as the Unicode Character Database.

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

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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or

<http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz>

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The snowball stemmers in  
analysis/common/src/java/net/sf/snowball  
were developed by Martin Porter and Richard Boulton.  
The snowball stopword lists in  
analysis/common/src/resources/org/apache/lucene/analysis/snowball  
were developed by Martin Porter and Richard Boulton.

The full snowball package is available from  
<http://snowball.tartarus.org/>

The KStem stemmer in  
`analysis/common/src/org/apache/lucene/analysis/en`  
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)  
under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come with a default  
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:  
`analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt`,  
`analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt`,  
`analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt`,  
`analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt`,  
`analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt`  
See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers  
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and  
Ljiljana Dolamic. These files reside in:

`analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java`

The Stempel analyzer (stempel) includes BSD-licensed software developed  
by the Egothor project <http://egothor.sf.net/>, created by Leo Galambos, Martin Kvapil,  
and Edmond Nolan.

The Polish analyzer (stempel) comes with a default  
stopword list that is BSD-licensed created by the Carrot2 project. The file resides  
in `stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt`.  
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The SmartChineseAnalyzer source code (smartcn) was  
provided by Xiaoping Gao and copyright 2009 by [www.imdict.net](http://www.imdict.net).

`WordBreakTestUnicode_*.java` (under `modules/analysis/common/src/test/`)  
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The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (<http://morfologik.blogspot.com/>).

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### Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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

mecab-ipadic-2.7.0-20070801

which can be obtained from

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

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<http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz>

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## snakeyaml NOTICE

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\*\*\*The art of simplicity is a puzzle of complexity.\*\*\*

### ## Overview ##

[YAML](<http://yaml.org>) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

### ## SnakeYAML features ##

- \* a **complete** [YAML 1.1 processor](<http://yaml.org/spec/1.1/current.html>). In particular, SnakeYAML can parse all examples from the specification.
- \* Unicode support including UTF-8/UTF-16 input/output.
- \* high-level API for serializing and deserializing native Java objects.
- \* support for all types from the [YAML types repository](<http://yaml.org/type/index.html>).
- \* relatively sensible error messages.

### ## Info ##

- \* [Changes](<https://bitbucket.org/asomov/snakeyaml/wiki/Changes>)
- \* [Documentation](<https://bitbucket.org/asomov/snakeyaml/wiki/Documentation>)

### ## Contribute ##

- \* Mercurial DVCS is used to dance with the [source code](<https://bitbucket.org/asomov/snakeyaml/src>).
- \* If you find a bug in SnakeYAML, please [file a bug report](<https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open>).
- \* You may discuss SnakeYAML at [the mailing list](<http://groups.google.com/group/snakeyaml-core>).

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documentation files (the "Software"), to deal in the Software without restriction, eand/or sell copies of the Software,
and to permit persons to whom the Software is furnished to do so,appendfincluding without limitation the rights to
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java/util/Setiterator()Ljava/util/Iterator;hasNext()Znext()Ljava/lang/Object;getKeygetValue\$(Ljava/lang/String;Ljav  
a/util/Map;)VbooleanValuevalueOf(Z)Ljava/lang/Boolean;9:"java/lang/invoke/LambdaMetafactorymetafactoryLoo

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kup(Ljava/lang/invoke/MethodHandles$Lookup;Ljava/lang/String;Ljava/lang/invoke/MethodType;Ljava/lang/invoke/MethodType;Ljava/lang/invoke/MethodHandle;Ljava/lang/invoke/MethodType;)Ljava/lang/invoke/CallSite;%java/lang/invoke/MethodHandles$Lookupjava/lang/invoke/MethodHandles1 !U**Y*+"IGJK#$(!)U*+,W*"
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N*--W*"ST6U9V# /1;$';2/3;45,678!:Y**"Z#$'
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/core/security/authz/privilege/ClusterPrivilege;)VCodeLineNumberTableLocalVariableTablethisJLorg/elasticsearch/
xpack/core/security/authz/permission/ClusterPermission;J(Lorg/elasticsearch/xpack/core/security/authz/privilege/C
lusterPrivilege;checkC(Ljava/lang/String;Lorg/elasticsearch/transport/TransportRequest;)ZgrantsK(Lorg/elasticsear
ch/xpack/core/security/authz/privilege/ClusterPrivilege;)ZclusterPrivilege
privileges()Ljava/util/List;
Signature()Ljava/util/List<Lorg/elasticsearch/common/collect/Tuple<Lorg/elasticsearch/xpack/core/security/authz/p
rivilege/ClusterPrivilege;Lorg/elasticsearch/xpack/core/security/authz/privilege/ConditionalClusterPrivilege;>;>;
access$000(Lorg/elasticsearch/xpack/core/security/authz/permission/ClusterPermission;)Lorg/elasticsearch/xpack/c
ore/security/authz/privilege/ClusterPrivilege;x0
SourceFileClusterPermission.java3456789Horg/elasticsearch/xpack/core/security/authz/permission/ClusterPermissi
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earch/xpack/core/security/authz/privilege/ClusterPrivilegegetAutomaton.()Lorg/apache/lucene/util/automaton/Autom
aton;+org/apache/lucene/util/automaton/OperationssubsetOf[(Lorg/apache/lucene/util/automaton/Automaton;Lorg/a
pache/lucene/util/automaton/Automaton;)]Z!F
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89NONESimpleClusterPermissionInnerClassesbLorg/elasticsearch/xpack/core/security/authz/permission/ClusterPer
mission$SimpleClusterPermission; predicateLjava/util/function/Predicate;
Signature2Ljava/util/function/Predicate<Ljava/lang/String;>;<init>K(Lorg/elasticsearch/xpack/core/security/authz/p

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privilege/ClusterPrivilege;)VCodeLineNumberTableLocalVariableTablethis  
privilegeHLorg/elasticsearch/xpack/core/security/authz/privilege/ClusterPrivilege;checkC(Ljava/lang/String;Lorg/el  
asticsearch/transport/TransportRequest;)ZactionLjava/lang/String;request.Lorg/elasticsearch/transport/TransportReq  
uest;  
privileges()Ljava/util/List;()Ljava/util/List<Lorg/elasticsearch/common/collect/Tuple<Lorg/elasticsearch/xpack/core  
/security/authz/privilege/ClusterPrivilege;Lorg/elasticsearch/xpack/core/security/authz/privilege/ConditionalCluster  
Privilege;>;>;<clinit>()V  
SourceFileClusterPermission.java;:<=>&org/elasticsearch/common/collect/Tuple?@ABCD`org/elasticsearch/xpack  
/core/security/authz/permission/ClusterPermission\$SimpleClusterPermissionHorg/elasticsearch/xpack/core/security/  
authz/permission/ClusterPermissionForg/elasticsearch/xpack/core/security/authz/privilege/ClusterPrivilege  
()Ljava/util/function/Predicate;java/util/function/Predicatetest(Ljava/lang/Object;)Z  
access\$000(Lorg/elasticsearch/xpack/core/security/authz/permission/ClusterPermission;)Lorg/elasticsearch/xpack/c  
ore/security/authz/privilege/ClusterPrivilege;(Ljava/lang/Object;Ljava/lang/Object;)Vjava/util/Collections  
singletonList\$(Ljava/lang/Object;)Ljava/util/List;!<br>J\*+\*+56<br>7I\*+; !"#\$:Y\*@&'(& Y<br>0)\*

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SourceFileResourcePrivileges.javaEnclosingMethod

Korg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivileges\$IInnerClassesjava/lang/ObjectIorg/ela  
sticsearch/xpack/core/security/authz/permission/ResourcePrivileges

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"InnerClassesDocumentLevelPermissionsGroupNONEJLorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission;allowedIndicesMatchersForAction$Ljava/util/concurrent/ConcurrentMap;SignaturejLjava/util/concurrent/ConcurrentMap<Ljava/lang/String;Ljava/util/function/Predicate<Ljava/lang/String;>;>;groupsQ[Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission$Group;<init>T([Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission$Group;)VCodeLineNumberTableLocalVariableTa
```

```

blethisindexMatcher6(Ljava/util/Collection;)Ljava/util/function/Predicate;indexPatternLjava/lang/String;indicesLjav
a/util/Collection;
exactMatchLjava/util/Set;
nonExactMatchLjava/util/List;LocalVariableTypeTable*Ljava/util/Collection<Ljava/lang/String;>;#Ljava/util/Set<
Ljava/lang/String;>;$Ljava/util/List<Ljava/lang/String;>;
StackMapTable^(Ljava/util/Collection<Ljava/lang/String;>;)Ljava/util/function/Predicate<Ljava/lang/String;>;build
ExactMatchPredicate/(Ljava/util/Set;)Ljava/util/function/Predicate;singleValueW(Ljava/util/Set<Ljava/lang/String;
>);Ljava/util/function/Predicate<Ljava/lang/String;>;buildAutomataPredicate0(Ljava/util/List;)Ljava/util/function/P
redicate;descriptioneCLorg/apache/lucene/util/automaton/TooComplexToDetermineException;X(Ljava/util/List<
Ljava/lang/String;>;)Ljava/util/function/Predicate<Ljava/lang/String;>;S()[Lorg/elasticsearch/xpack/core/security/a
uthz/permission/IndicesPermission$Group;allowedIndicesMatcher2(Ljava/lang/String;)Ljava/util/function/Predicate
;actionF(Ljava/lang/String;)Ljava/util/function/Predicate<Ljava/lang/String;>;check(Ljava/lang/String;)ZgroupPLor
g/elasticsearch/xpack/core/security/authz/permission/IndicesPermission$Group;checkResourcePrivilegeso(Ljava/uti
l/Set;ZLjava/util/Set;)Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap;groupIndexA
utomaton,Lorg/apache/lucene/util/automaton/Automaton;indexPrivilegeFLorg/elasticsearch/xpack/core/security/aut
hz/privilege/IndexPrivilege;
privilegeallowedIndexPrivilegesAutomatoncheckIndexAutomatonforIndexPatterncheckForIndexPatternsallowRestri
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/permission/ResourcePrivilegesMap$Builder;predicateCacheLjava/util/Map;Ljava/util/Map<Lorg/elasticsearch/xpac
k/core/security/authz/permission/IndicesPermission$Group;Lorg/apache/lucene/util/automaton/Automaton;>;(Ljava/
util/Set<Ljava/lang/String;>;ZLjava/util/Set<Ljava/lang/String;>;)Lorg/elasticsearch/xpack/core/security/authz/per
mission/ResourcePrivilegesMap;allowedActionsMatcher@(Ljava/lang/String;)Lorg/apache/lucene/util/automaton/A
utomaton;index
automatonList>Ljava/util/List<Lorg/apache/lucene/util/automaton/Automaton;>;
authorize(Ljava/lang/String;Ljava/util/Set;Ljava/util/Map;Lorg/elasticsearch/xpack/core/security/authz/permission/F
ieldPermissionsCache;)Ljava/util/Map;
indexMetaData2Lorg/elasticsearch/cluster/metadata/IndexMetaData;fieldPermissionspermissionscLorg/elasticsearc
h/xpack/core/security/authz/permission/IndicesPermission$DocumentLevelPermissions;
concreteIndexgrantedconcreteIndicesaliasOrIndex1Lorg/elasticsearch/cluster/metadata/AliasOrIndex;indexOrAliasr
oleQueriesILorg/elasticsearch/xpack/core/security/authz/permission/FieldPermissions;indexFieldPermissionsentryE
ntryLjava/util/Map$Entry;requestedIndicesOrAliasesallAliasesAndIndicesfieldPermissionsCacheNLorg/elasticsearc
h/xpack/core/security/authz/permission/FieldPermissionsCache;fieldPermissionsByIndexroleQueriesByIndexgrante
dBuilderindexPermissionsZLjava/util/Set<Lorg/elasticsearch/xpack/core/security/authz/permission/FieldPermissi
ons;>;@Ljava/util/Set<Lorg/elasticsearch/common/bytes/BytesReference;>;<Ljava/util/Map$Entry<Ljava/lang/String;
Ljava/lang/Boolean;>;TLjava/util/Map<Ljava/lang/String;Lorg/elasticsearch/cluster/metadata/AliasOrIndex;>;}Ljav
a/util/Map<Ljava/lang/String;Ljava/util/Set<Lorg/elasticsearch/xpack/core/security/authz/permission/FieldPermissi
ons;>;>;Ljava/util/Map<Ljava/lang/String;Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermissi
on$DocumentLevelPermissions;>;6Ljava/util/Map<Ljava/lang/String;Ljava/lang/Boolean;>;IndexAccessControlLjva
va/util/Map<Ljava/lang/String;Lorg/elasticsearch/xpack/core/security/authz/accesscontrol/IndicesAccessControl$In
dexAccessControl;>;_(Ljava/lang/String;Ljava/util/Set<Ljava/lang/String;>;Ljava/util/Map<Ljava/lang/String;Lorg/
elasticsearch/cluster/metadata/AliasOrIndex;>;Lorg/elasticsearch/xpack/core/security/authz/permission/FieldPermis
sionsCache;)Ljava/util/Map<Ljava/lang/String;Lorg/elasticsearch/xpack/core/security/authz/accesscontrol/IndicesA
ccessControl$IndexAccessControl;>;lambda$authorize$4w(Ljava/lang/String;)Lorg/elasticsearch/xpack/core/securit
y/authz/permission/IndicesPermission$DocumentLevelPermissions;klambda$authorize$3#(Ljava/lang/String;)Ljva
/util/Set;
lambda$checkResourcePrivileges$2~(Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission$G
roup;)Lorg/apache/lucene/util/automaton/Automaton;glambda$allowedIndicesMatcher$1alambda$indexMatcher$0s
<clinit>()V

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SourceFileIndicesPermission.java&java/util/concurrent/ConcurrentHashMapjava/util/HashSetjava/util/ArrayListjava/lang/String/\*?BootstrapMethods

;Aorg/apache/lucene/util/automaton/TooComplexToDeterminizeExceptionHorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission+Index pattern automaton [{}] is too complexjava/lang/StringBuilder...0org/elasticsearch/ElasticsearchSecurityExceptionCThe set of permitted index patterns [{}] is too complex to evaluatejava/lang/Objectjava/util/function/Predicatejava/util/HashMap\*org/apache/lucene/util/automaton/Automaton/org/elasticsearch/cluster/metadata/AliasOrIndex0org/elasticsearch/cluster/metadata/IndexMetaData java/util/Set

aorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission\$DocumentLevelPermissions java/util/Map\$EntryGorg/elasticsearch/xpack/core/security/authz/permission/FieldPermissions aorg/elasticsearch/xpack/core/security/authz/accesscontrol/IndicesAccessControl\$IndexAccessControl!java/lang/Boolean"#\$\$%&'()\*+,-

./Norg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission\$GroupJorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission\$Ijava/util/Listjava/util/IteratorTorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap\$Builder

java/util/MapDorg/elasticsearch/xpack/core/security/authz/privilege/IndexPrivilegeLorg/elasticsearch/xpack/core/security/authz/permission/FieldPermissionsCacheJorg/elasticsearch/xpack/core/security/authz/permission/DocumentPermissionsjava/util/Collectioniterator()Ljava/util/Iterator;hasNext()Znext()Ljava/lang/Object; startsWithcontains(Ljava/lang/CharSequence;)Zadd(Ljava/lang/Object;)ZisEmpty

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"2test

()Ljava/util/function/Predicate;or>(Ljava/util/function/Predicate;)Ljava/util/function/Predicate;size()Ijava/util/ObjectsrequireNonNull&(Ljava/lang/Object;)Ljava/lang/Object;

38org/elasticsearch/xpack/core/security/support/Automatons predicate#org/apache/logging/log4j/LogManager getLogger4(Ljava/lang/Class;)Lorg/apache/logging/log4j/Logger;org/apache/logging/log4j/Loggerdebug'(Ljava/lang/String;Ljava/lang/Object;)V org/elasticsearch/common/Strings

collectionToCommaDelimitedString((Ljava/lang/Iterable;)Ljava/lang/String;length

cleanTruncate(Ljava/lang/String;I)Ljava/lang/String;append-

(Ljava/lang/String;)Ljava/lang/StringBuilder;toString(Ljava/lang/String;=(Ljava/lang/String;Ljava/lang/Exception;[Ljava/lang/Object;)V

"4applyi(Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission;)Ljava/util/function/Function;"

java/util/concurrent/ConcurrentMapcomputeIfAbsentC(Ljava/lang/Object;Ljava/util/function/Function;)Ljava/lang/Object;

access\$000e(Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission\$Group;Ljava/lang/String;)ZLorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMapbuilderX()Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap\$Builder;patternsA([Ljava/lang/String;)Lorg/apache/lucene/util/automaton/Automaton;Borg/elasticsearch/xpack/core/security/index/RestrictedIndicesNamesRESTRICTED\_NAMESNAMES\_AUTOMATONminusAndMinimize(Lorg/apache/lucene/util/automaton/Automaton;Lorg/apache/lucene/util/automaton/Automaton;)Lorg/apache/lucene/util/automaton/Automaton;+org/apache/lucene/util/automaton/Operations/(Lorg/apache/lucene/util/automaton/Automaton;)Z

"5()Ljava/util/function/Function;subsetOf[(Lorg/apache/lucene/util/automaton/Automaton;Lorg/apache/lucene/util/automaton/Automaton;)ZH()Lorg/elasticsearch/xpack/core/security/authz/privilege/IndexPrivilege;getAutomaton.()Lorg/apache/lucene/util/automaton/Automaton;java/util/ArraysasList%([Ljava/lang/Object;)Ljava/util/List;unionAndMinimized(Ljava/util/Collection;)Lorg/apache/lucene/util/automaton/Automaton;java/util/Collections singleton#(Ljava/lang/Object;)Ljava/util/Set;getW(Ljava/util/Set;)Lorg/elasticsearch/xpack/core/security/authz/privilege/IndexPrivilege;TRUELjava/lang/Boolean;addResourcePrivilege(Ljava/lang/String;Ljava/lang/String;Ljava/lang

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g/Boolean;)Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap$Builder;FALSEbuildP
()Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap;
access$100p(Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission$Group;)Ljava/util/function
/Predicate;
access$200(Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission$Group;)Lorg/elasticsearch/
xpack/core/security/authz/privilege/IndexPrivilege;EMPTY
getIndices()Ljava/util/List;getIndex!()Lorg/elasticsearch/index/Index;org/elasticsearch/index/IndexgetName
access$300w(Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission$Group;)Ljava/lang/String;
Ljava/lang/String;)Z
"6put8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;getFieldPermissionsK()Lorg/elasticsearch/xpack/co
re/security/authz/permission/FieldPermissions;
"7putIfAbsenthasQuerygetQuery()Ljava/util/Set;
access$400u(Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission$DocumentLevelPermissio
ns;Ljava/util/Set;)V
access$500g(Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission$DocumentLevelPermissio
ns;Z)VvalueOf(Z)Ljava/lang/Boolean;entrySetgetKey
access$600f(Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission$DocumentLevelPermissio
s;)Z
access$700t(Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission$DocumentLevelPermissio
s;)Ljava/util/Set;unmodifiableSet
(Ljava/util/Set;)Ljava/util/Set;a(Ljava/util/Collection;)Lorg/elasticsearch/xpack/core/security/authz/permission/Field
Permissions;DEFAULTNorg/elasticsearch/xpack/core/security/authz/accesscontrol/IndicesAccessControlgetValueB
ooleanValue
filteredBy](Ljava/util/Set;)Lorg/elasticsearch/xpack/core/security/authz/permission/DocumentPermissions;allowAll
N()Lorg/elasticsearch/xpack/core/security/authz/permission/DocumentPermissions;(ZLorg/elasticsearch/xpack/core/
security/authz/permission/FieldPermissions;Lorg/elasticsearch/xpack/core/security/authz/permission/DocumentPer
missions;)VunmodifiableMap
(Ljava/util/Map;)Ljava/util/Map;O(Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission$1;)V
()Ljava/lang/String;buildIndexMatcherAutomatonB(ZLjava/lang/String;)Lorg/apache/lucene/util/automaton/Auto
maton;
access$900(Ljava/lang/String;[Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission$Group;)
Ljava/util/function/Predicate;89<="java/lang/invoke/LambdaMetafactorymetafactory?Lookup(Ljava/lang/invoke/M
ethodHandles$Lookup;Ljava/lang/String;Ljava/lang/invoke/MethodType;Ljava/lang/invoke/MethodType;Ljava/lan
g/invoke/MethodHandle;Ljava/lang/invoke/MethodType;)Ljava/lang/invoke/CallSite>equals@%java/lang/invoke/M
ethodHandles$Lookupjava/lang/invoke/MethodHandles1"OU**Y*+4056iYLY M*
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,W+W+, +,,+,+,:9;+<I=U?^AaCsDyEFGHJ*+3 Z1

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grantedFields(Ljava/lang/String;excludedFields<init>)(Ljava/lang/String;;Ljava/lang/String;)VCodeLineNumberTableLocalVariableTablethisFieldGrantExcludeGroupInnerClassesjLorg/elasticsearch/xpack/core/security/authz/permission/FieldPermissionsDefinition$FieldGrantExcludeGroup;getGrantedFields()[Ljava/lang/String;getExcludedFieldsequals(Ljava/lang/Object;)ZoLjava/lang/Object;thatStackMapTablehashCode()IresultItoString()Ljava/lang/String;SourceFileFieldPermissionsDefinition.javaCDEFhorg/elasticsearch/xpack/core/security/authz/permission/FieldPermissionsDefinition$FieldGrantExcludeGroupG!H'Ljava/lang/StringBuilderJK,LM[grant=NOP;
```

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exclude=]+,java/lang/Object()VgetClass()Ljava/lang/Class;Qorg/elasticsearch/xpack/core/security/authz/permission
/FieldPermissionsDefinitionjava/util/Arrays)([Ljava/lang/Object;[Ljava/lang/Object;)Z([Ljava/lang/Object;)Ijava/la
ng/Class
getSimpleNameappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;
org/elasticsearch/common/StringsarrayToCommaDelimitedString'([Ljava/lang/Object;)Ljava/lang/String;1Y**+*,8
9 ;; /*> /*B!"9*++*++M*,*,GHJL-M 99#$$%&'(S*<h*`<RST)*+,n8Y *
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privilegeFLorg/elasticsearch/xpack/core/security/authz/privilege/IndexPrivilege;
actionMatcherLjava/util/function/Predicate;
Signature2Ljava/util/function/Predicate<Ljava/lang/String;>;indices[Ljava/lang/String;indexNameMatcherfieldPer
missionsILorg/elasticsearch/xpack/core/security/authz/permission/FieldPermissions;queryLjava/util/Set;@Ljava/util
/Set<Lorg/elasticsearch/common/bytes/BytesReference;>;allowRestrictedIndicesZ$assertionsDisabled<init>(Lorg/e
lasticsearch/xpack/core/security/authz/privilege/IndexPrivilege;Lorg/elasticsearch/xpack/core/security/authz/permis
sion/FieldPermissions;Ljava/util/Set;Z[Ljava/lang/String;)VCodeLineNumberTableLocalVariableTablethisGroupInn
erClassesPLorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission$Group;LocalVariableTypeTa
ble
StackMapTable/(Lorg/elasticsearch/xpack/core/security/authz/privilege/IndexPrivilege;Lorg/elasticsearch/xpack/cor
e/security/authz/permission/FieldPermissions;Ljava/util/Set<Lorg/elasticsearch/common/bytes/BytesReference;>;Z[
Ljava/lang/String;)V"RuntimeVisibleParameterAnnotations#Lorg/elasticsearch/common/Nullable;H(Lorg/elasticse
arch/xpack/core/security/authz/privilege/IndexPrivilege;)[Ljava/lang/String;getQuery()Ljava/util/Set;B(Ljava/util/
Set<Lorg/elasticsearch/common/bytes/BytesReference;>;RuntimeVisibleAnnotationsgetFieldPermissionsK(Lorg/el
asticsearch/xpack/core/security/authz/permission/FieldPermissions;check(Ljava/lang/String;)ZactionLjava/lang/Stri
ng;(Ljava/lang/String;Ljava/lang/String;)ZindexhasQuery()ZbuildIndexMatcherAutomatonB(Z[Ljava/lang/String;)
Lorg/apache/lucene/util/automaton/Automaton;indicesAutomaton,Lorg/apache/lucene/util/automaton/Automaton;#b
uildIndexMatcherPredicateForAction(Ljava/lang/String;[Lorg/elasticsearch/xpack/core/security/authz/permission/In
dicesPermission$Group;)Ljava/util/function/Predicate;group
predicategroupsQ[Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission$Group;ordinaryIndic
esrestrictedIndices#Ljava/util/Set<Ljava/lang/String;>;d(Ljava/lang/String;[Lorg/elasticsearch/xpack/core/security/a
uthz/permission/IndicesPermission$Group;)Ljava/util/function/Predicate<Ljava/lang/String;>;,lambda$buildIndexM
atcherPredicateForAction$1,lambdabuildIndexMatcherPredicateForAction$0
access$000e(Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission$Group;Ljava/lang/String;)
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access\$100p(Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission\$Group;)Ljava/util/function/Predicate;

access\$200(Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission\$Group;)Lorg/elasticsearch/xpack/core/security/authz/privilege/IndexPrivilege;

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InnerClassesBuilderEMPTY=Lorg/elasticsearch/xpack/core/security/authz/permission/Role;names[Ljava/lang/String;clusterJLorg/elasticsearch/xpack/core/security/authz/permission/ClusterPermission;indicesJLorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission;applicationNLorg/elasticsearch/xpack/core/security/authz/permission/ApplicationPermission;runAsHLorg/elasticsearch/xpack/core/security/authz/permission/RunAsPermission;<init>@([Ljava/lang/String;Lorg/elasticsearch/xpack/core/security/authz/permission/ClusterPermission;Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission;Lorg/elasticsearch/xpack/core/security/authz/permission/ApplicationPermission;Lorg/elasticsearch/xpack/core/security/authz/permission/RunAsPermission;)VCodeLineNumberTableLocalVariableTablethis([Ljava/lang/String;L()Lorg/elasticsearch/xpack/core/security/authz/permission/ClusterPermission;L()Lorg/elasticsearch/xpack/core/security/authz/permission/IndicesPermission;P()Lorg/elasticsearch/xpack/core/security/authz/permission/ApplicationPermission;J()Lorg/elasticsearch/xpack/core/security/authz/permission/RunAsPermission;builderZ([Ljava/lang/String;)Lorg/elasticsearch/xpack/core/security/authz/permission/Role$Builder;([Ljava/lang/String;Lorg/elasticsearch/xpack/core/security/authz/permission/FieldPermissionsCache;)Lorg/elasticsearch/xpack/core/security/authz/permission/Role$Builder;fieldPermissionsCacheNLorg/elasticsearch/xpack/core/security/authz/permission/FieldPermissionsCache;(Lorg/elasticsearch/xpack/core/security/authz/RoleDescriptor;Lorg/elasticsearch/xpack/core/security/authz/permission/FieldPermissionsCache;)Lorg/elasticsearch/xpack/core/security/authz/permission/Role$Builder;rd<Lorg/elasticsearch/xpack/core/security/authz/RoleDescriptor;allowedIndicesMatcher2(Ljava/lang/String;)Ljava/util/function/Predicate;actionLjava/lang/String;SignatureF(Ljava/lang/String;)Ljava/util/function/Predicate<Ljava/lang/String;>;allowedActionsMatcher@([Ljava/lang/String;)Lorg/apache/lucene/util/automaton/Automaton;indexcheckRunAs(Ljava/lang/String;)ZrunAsNamecheckIndicesActioncheckIndicesPrivilegeso(Ljava/util/Set;ZLjava/util/Set;)Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap;checkForIndexPatternsLjava/util/Set;allowRestrictedIndicesZcheckForPrivilegesLocalVariableTypeTable#Ljava/util/Set<Ljava/lang/String;>;(Ljava/util/Set<Ljava/lang/String;>;ZLjava/util/Set<Ljava/lang/String;>;)Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap;checkClusterActionC(Ljava/lang/String;Lorg/elasticsearch/transport/TransportRequest;)Zrequest.Lorg/elasticsearch/transport/TransportRequest;grantsK(Lorg/elasticsearch/xpack/core/security/authz/privilege/ClusterPrivilege;)ZclusterPrivilegeHLorg/elasticsearch/xpack/core/security/authz/privilege/ClusterPrivilege;"checkApplicationResourcePrivileges(Ljava/lang/String;Ljava/util/Set;Ljava/util/Set;Ljava/util/Collection;)Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap;applicationNamecheckForResourcescheckForPrivilegeNamesstoredPrivilegesLjava/util/Collection;nLjava/util/Collection<Lorg/elasticsearch/xpack/core/security/authz/privilege/ApplicationPrivilegeDescriptor;>;(Ljava/lang/String;Ljava/util/Set<Ljava/lang/String;>;Ljava/util/Set<Ljava/lang/String;>;Ljava/util/Collection<Lorg/elasticsearch/xpack/core/security/authz/privilege/ApplicationPrivilegeDescriptor;>;)Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap;authorize(Ljava/lang/String;Ljava/util/Set;Ljava/util/Map;Lorg/elasticsearch/xpack/core/security/authz/permission/FieldPermissionsCache;)Lorg/elasticsearch/xpack/core/security/authz/accesscontrol/IndicesAccessControl;entryEntryLjava/util/Map$Entry;requestedIndicesOrAliasesaliasAndIndexLookupLjava/util/Map;indexPermissionsgrantedIndexAccessControlLjava/util/Map$Entry<Ljava/lang/String;Lorg/elasticsearch/xpack/core/security/authz/accesscontrol/IndicesAccessControl$IndexAccessControl;>;TLjava/util/Map<Ljava/lang/String;Lorg/elasticsearch/cluster/metadata/AliasOrIndex;>;Ljava/util/Map<Ljava/lang/String;Lorg/elasticsearch/xpack/core/security/authz/accesscontrol/IndicesAccessControl$IndexAccessControl;>;StackMapTable(Ljava/lang/String;Ljava/util/Set<Ljava/lang/String;>;Ljava/util/Map<Ljava/lang/String;Lorg/elasticsearch/cluster/metadata/AliasOrIndex;>;Lorg/elasticsearch/xpack/core/security/authz/permission/FieldPermissionsCache;)Lorg/elasticsearch/xpack/core/security/authz/accesscontrol/IndicesAccessControl;<clinit>()VSourceFileRole.java8./Horg/elasticsearch/xpack/core/security/authz/permission/ClusterPermission01Horg/elasticsearch/xpack/

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ssion/Role$1;)VcheckcheckResourcePrivileges(Ljava/lang/String;Ljava/util/Set;Ljava/util/Map;Lorg/elasticsearch/x
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isGranted(ZLjava/util/Map;)Vbuild?()Lorg/elasticsearch/xpack/core/security/authz/permission/Role;!(-
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;M<./FG CH:?Y*+;Q<IJFGKL:= *+;Y< =- MNOPQR:= *+;]< =- SNTU:= *+;a< =- VNWU:= *+;k< =- MNXY:o*+-
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sion/ResourcePrivilegesMap;
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.st9@uv*!*+,-:*+,-:+,H'-'wG'xI'yI'z{ijkjQ 'xR'yR'z|T}~c*X*+*+,,-.7G9@ *$+WY***** +!+
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privilegeALog/elasticsearch/xpack/core/security/authz/privilege/Privilege; predicateLjava/util/function/Predicate;  
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ndResourcespermissionsByPrivilegeLjava/util/Map;LocalVariableTypeTableLjava/util/List<Lorg/elasticsearch/com
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java/util/Set{L}~L  
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java/util/Mapvalues()Ljava/util/Collection;(Ljava/util/Collection;)Vjava/util/CollectionsunmodifiableList"(Ljava/util/List;)Ljava/util/List;8org/elasticsearch/xpack/core/security/support/AutomatonsA([Ljava/lang/String;)Lorg/apache/lucene/util/automaton/Automaton;stream()Ljava/util/stream/Stream;(Ljava/lang/Object);)Z  
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access\$100(Lorg/elasticsearch/xpack/core/security/authz/permission/ApplicationPermission\$PermissionEntry;Lorg/elasticsearch/xpack/core/security/authz/privilege/ApplicationPrivilege;)Z  
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StackMapTabley(Ljava/lang/String;Ljava/util/Map;)Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap$Builder;privilegePermissionsLocalVariableTypeTable6Ljava/util/Map<Ljava/lang/String;Ljava/lang/Boolean;>;(Ljava/lang/String;Ljava/util/Map<Ljava/lang/String;Ljava/lang/Boolean;>;)Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap$Builder;addResourcePrivilegesMap(Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap;)Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap$Builder;resourcePrivilegesMapNLorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap;buildP(Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap;resultnLjava/util/Map<Ljava/lang/String;Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivileges;>;lambda$build$3Entryb(Ljava/util/Map$Entry;)Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivileges;eLjava/util/Map$Entry;lambda$build$2)(Ljava/util/Map$Entry;)Ljava/lang/String;!lambda$addResourcePrivilegesMap$1(Ljava/util/Map$Entry;)Vlambda$addResourcePrivilege$0(Ljava/lang/Boolean;)Zb<clinit>
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ne/util/automaton/Operationsqrstu0org/elasticsearch/ElasticsearchSecurityExceptionjava/lang/StringBuilderLExcept

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ions for field permissions must be a subset of the granted fields but vwxyz is not a subset of

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org/elasticsearch/index/mapper/AllFieldMapper_alllclGorg/elasticsearch/xpack/core/security/authz/permission/Field
PermissionsdeKjava/util/HashSetigjava/util/HashMap|B"org/apache/lucene/util/Accountable*org/apache/lucene/util/
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pport/Automatons
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ect;unionAndMinimizeD(Ljava/util/Collection;)Lorg/apache/lucene/util/automaton/Automaton;java/util/Arrays.([Lj
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a/lang/invoke/CallSite;$org/elasticsearch/common/regex/RegexisMatchAllPatternjava/lang/String%java/lang/invoke
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sion/ClusterPermission\$ConditionalClusterPermission;checkC(Ljava/lang/String;Log/elasticsearch/transport/Trans  
portRequest;)ZactionLjava/lang/String;request.Lorg/elasticsearch/transport/TransportRequest;

StackMapTable

privileges()Ljava/util/List;

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SignatureNLjava/util/Map<Ljava/lang/String;Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivileges;>;<init>(ZLjava/util/Map;)VCodeLineNumberTableLocalVariableTablethisNLog/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap;resToResPrivLocalVariableTypeTabler(ZLjava/util/Map<Ljava/lang/String;Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivileges;>);V(ZgetResourceToResourcePrivileges)Ljava/util/Map;p)Ljava/util/Map<Ljava/lang/String;Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivileges;>;hashCode()Iequals(Ljava/lang/Object;)ZobjLjava/lang/Object;other

StackMapTabletoString(Ljava/lang/String;builderX)Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap\$Builder;intersection(Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap;Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap;)Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap;leftResPrivsKLorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivileges;

rightResPrivsleftResPrivsEntryEntryLjava/util/Map\$Entry;leftrightVLog/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap\$Builder;tLjava/util/Map\$Entry<Ljava/lang/String;Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivileges;>;

SourceFileResourcePrivilegesMap.java)\*

java/util/Map+.java/lang/ObjectLorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap?java/lang/StringBuilder"ResourcePrivilegesMap [allAllowed=, resourceToResourcePrivileges=]EFTorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap\$BuilderGH.;9java/util/Map\$EntryIorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesjava/lang/String;java/util/Iterator()Vjava/util/ObjectsrequireNonNull&(Ljava/lang/Object;)Ljava/lang/Object;java/util/CollectionsunmodifiableMap

(Ljava/util/Map;)Ljava/util/Map;java/lang/BooleanvalueOf(Z)Ljava/lang/Boolean;hash([Ljava/lang/Object;)IgetClass(Ljava/lang/Class;Ljava/lang/Object;Ljava/lang/Object;)Zappend-

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java/util/Setiterator(Ljava/util/Iterator;hasNextnext(Ljava/lang/Object;getValuegetKeyget

getPrivilegesaddResourcePrivilege(Ljava/lang/String;Ljava/util/Map;)Lorg/elasticsearch/xpack/core/security/authz/permission/ResourcePrivilegesMap\$Builder;buildP)Lorg/elasticsearch/xpack/core/security/authz/permission/Reso

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odeLineNumberTableLocalVariableTablethis=Lorg/elasticsearch/protocol/xpack/license/PutLicenseResponse;=(ZL
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til/Map$Entry;out1Lorg/elasticsearch/common/io/stream/StreamOutput;<Ljava/util/Map$Entry<Ljava/lang/String;[
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Signature~Lorg/elasticsearch/action/support/master/AcknowledgedRequest<Lorg/elasticsearch/protocol/xpack/license/DeleteLicenseRequest;>;
SourceFileDeleteLicenseRequest.java=org/elasticsearch/protocol/xpack/license/DeleteLicenseRequest;org/elasticsearch/action/support/master/AcknowledgedRequest!/*
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SourceFilePutLicenseRequest.java

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startArrayvalueendArray5(Lorg/elasticsearch/common/xcontent/XContentBuilder; endObject  
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nt/ElasticsearchClient;)Lorg/elasticsearch/license/GetTrialStatusRequestBuilder;client.Lorg/elasticsearch/client/Elas  
tsearchClient;newResponse4()Lorg/elasticsearch/license/GetTrialStatusResponse;\_(Lorg/elasticsearch/client/Elasti  
csearchClient;)Lorg/elasticsearch/action/ActionRequestBuilder;+()Lorg/elasticsearch/action/ActionResponse;<clinit  
>

SignatureLorg/elasticsearch/action/Action<Lorg/elasticsearch/license/GetTrialStatusRequest;Lorg/elasticsearch/lice  
nse/GetTrialStatusResponse;Lorg/elasticsearch/license/GetTrialStatusRequestBuilder;>;

SourceFileGetTrialStatusAction.java.org/elasticsearch/license/GetTrialStatusAction(cluster:admin/xpack/license/tria  
l\_status06org/elasticsearch/license/GetTrialStatusRequestBuilder10org/elasticsearch/license/GetTrialStatusRespon  
se

org/elasticsearch/action/Action(Ljava/lang/String;)Va(Lorg/elasticsearch/client/ElasticsearchClient;Lorg/elasticsear  
ch/license/GetTrialStatusAction;)V!

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) .INSTANCE,Lorg/elasticsearch/license/PutLicenseAction;NAMELjava/lang/String;

ConstantValue<init>()VCodeLineNumberTableLocalVariableTablethisnewResponse?()Lorg/elasticsearch/protocol/  
xpack/license/PutLicenseResponse;newRequestBuilderd(Lorg/elasticsearch/client/ElasticsearchClient;)Lorg/elastics  
earch/license/PutLicenseRequestBuilder;client.Lorg/elasticsearch/client/ElasticsearchClient;\_(Lorg/elasticsearch/cli  
ent/ElasticsearchClient;)Lorg/elasticsearch/action/ActionRequestBuilder;+()Lorg/elasticsearch/action/ActionRespon  
se;<clinit>

SignatureLorg/elasticsearch/action/Action<Lorg/elasticsearch/license/PutLicenseRequest;Lorg/elasticsearch/protoco  
l/xpack/license/PutLicenseResponse;Lorg/elasticsearch/license/PutLicenseRequestBuilder;>;

SourceFilePutLicenseAction.java\*org/elasticsearch/license/PutLicenseActioncluster:admin/xpack/license/put0;org/e

lasticsearch/protocol/xpack/license/PutLicenseResponse2org/elasticsearch/license/PutLicenseRequestBuilder1  
org/elasticsearch/action/Action(Ljava/lang/String;)V](Lorg/elasticsearch/client/ElasticsearchClient;Lorg/elasticsearch  
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search/cluster/service/ClusterService;Lorg/elasticsearch/threadpool/ThreadPool;Lorg/elasticsearch/action/support/A  
ctionFilters;Lorg/elasticsearch/cluster/metadata/IndexNameExpressionResolver;)VCodeLineNumberTableLocalVar  
iableTablethis9Lorg/elasticsearch/license/TransportGetBasicStatusAction;settings,Lorg/elasticsearch/common/settin  
gs/Settings;transportService.Lorg/elasticsearch/transport/TransportService;clusterService2Lorg/elasticsearch/cluster/  
service/ClusterService;

threadPool)Lorg/elasticsearch/threadpool/ThreadPool;

actionFilters0Lorg/elasticsearch/action/support/ActionFilters;indexNameExpressionResolver@Lorg/elasticsearch/cl  
uster/metadata/IndexNameExpressionResolver;RuntimeVisibleAnnotations(Lorg/elasticsearch/common/inject/Inject  
;executor()Ljava/lang/String;newResponse4())Lorg/elasticsearch/license/GetBasicStatusResponse;masterOperation(  
Lorg/elasticsearch/license/GetBasicStatusRequest;Lorg/elasticsearch/cluster/ClusterState;Lorg/elasticsearch/action/  
ActionListener;)Vlicense#Lorg/elasticsearch/license/License;request1Lorg/elasticsearch/license/GetBasicStatusReq  
uest;state(Lorg/elasticsearch/cluster/ClusterState;listener)Lorg/elasticsearch/action/ActionListener;licensesMeta  
Data.Lorg/elasticsearch/license/LicensesMetaData;LocalVariableTypeTable]Lorg/elasticsearch/action/ActionListener<L  
org/elasticsearch/license/GetBasicStatusResponse;>;

StackMapTablez{|

Exceptions }

Signature(Lorg/elasticsearch/license/GetBasicStatusRequest;Lorg/elasticsearch/cluster/ClusterState;Lorg/elasticsear  
ch/action/ActionListener<Lorg/elasticsearch/license/GetBasicStatusResponse;>);V

checkBlock(Lorg/elasticsearch/license/GetBasicStatusRequest;Lorg/elasticsearch/cluster/ClusterState;)Lorg/elastic  
search/cluster/block/ClusterBlockException;(Lorg/elasticsearch/action/support/master/MasterNodeRequest;Lorg/elas  
ticsearch/cluster/ClusterState;)Lorg/elasticsearch/cluster/block/ClusterBlockException;(Lorg/elasticsearch/action/su  
pport/master/MasterNodeRequest;Lorg/elasticsearch/cluster/ClusterState;Lorg/elasticsearch/action/ActionListener;)

V+()Lorg/elasticsearch/action/ActionResponse;Lorg/elasticsearch/action/support/master/TransportMasterNodeRead  
Action<Lorg/elasticsearch/license/GetBasicStatusRequest;Lorg/elasticsearch/license/GetBasicStatusResponse;>;

```

SourceFile"TransportGetBasicStatusAction.java.org/elasticsearch/license/GetBasicStatusAction(cluster:admin/xpac
k/license/basic_statusBootstrapMethods~-
org/elasticsearch/threadpool/ThreadPool$NamesNamesInnerClassessame0org/elasticsearch/license/GetBasicStatusR
esponse*org/elasticsearch/license/LicensesMetaDataLicenses2basic/org/elasticsearch/license/GetBasicStatusRequest
KL56347org/elasticsearch/license/TransportGetBasicStatusActionEorg/elasticsearch/action/support/master/Transpor
tMasterNodeReadAction&org/elasticsearch/cluster/ClusterState'org/elasticsearch/action/ActionListener!org/elastic
earch/license/Licensejava/lang/Exception
()Ljava/lang/Object;
b3()Lorg/elasticsearch/license/GetBasicStatusRequest;get()Ljava/util/function/Supplier;W(Lorg/elasticsearch/comm
on/settings/Settings;Ljava/lang/String;Lorg/elasticsearch/transport/TransportService;Lorg/elasticsearch/cluster/servi
ce/ClusterService;Lorg/elasticsearch/threadpool/ThreadPool;Lorg/elasticsearch/action/support/ActionFilters;Lorg/el
asticsearch/cluster/metadata/IndexNameExpressionResolver;Ljava/util/function/Supplier;)V'org/elasticsearch/thread
pool/ThreadPool()VmetaData()Lorg/elasticsearch/cluster/metadata/MetaData;+org/elasticsearch/cluster/metadata/
MetaDatacustomCustomH(Ljava/lang/String;)Lorg/elasticsearch/cluster/metadata/MetaData$Custom;(Z)V
onResponse(Ljava/lang/Object;)V
getLicense%()Lorg/elasticsearch/license/License;typejava/lang/Stringequals(Ljava/lang/Object;)Zblocks1()Lorg/ela
sticsearch/cluster/block/ClusterBlocks;1org/elasticsearch/cluster/block/ClusterBlockLevel
METADATA_READ3Lorg/elasticsearch/cluster/block/ClusterBlockLevel;-
org/elasticsearch/cluster/block/ClusterBlocksglobalBlockedExceptionl(Lorg/elasticsearch/cluster/block/ClusterBloc
kLevel;)Lorg/elasticsearch/cluster/block/ClusterBlockException;2org/elasticsearch/cluster/metadata/MetaData$Cust
om"java/lang/invoke/LambdaMetafactorymetafactoryLookup(Ljava/lang/invoke/MethodHandles$Lookup;Ljava/lang
/String;Ljava/lang/invoke/MethodType;Ljava/lang/invoke/MethodType;Ljava/lang/invoke/MethodHandle;Ljava/la
ng/invoke/MethodType;)Ljava/lang/invoke/CallSite;%java/lang/invoke/MethodHandles$Lookupjava/lang/invoke/M
ethodHandles! *+,-
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,.$0+1O4 >+$78P!"P9:P;<P=>B?@AP=BCr$
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LICENSELjava/lang/String;
ConstantValue
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cense/LicensesMetaData$Fields;
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nse/License$OperationMode;CodeLineNumberTablevalueOfE(Ljava/lang/String;)Lorg/elasticsearch/license/Licens
e$OperationMode;LocalVariableTablenameLjava/lang/String;<init>(Ljava/lang/String;IB)Vthis
Signature(B)Vcomparee(Lorg/elasticsearch/license/License$OperationMode;Lorg/elasticsearch/license/License$Op
erationMode;)IopMode1opMode2resolvetype
StackMapTabledescription()Ljava/lang/String;<clinit>()VCLjava/lang/Enum<Lorg/elasticsearch/license/License$O
perationMode;>;
SourceFileLicense.java;<</org/elasticsearch/license/License$OperationModeAF9:Kmissingtrialnonedevdevelopme
ntbasicstandardsilvergoldplatinumcloud_internalinternal034353637383"java/lang/IllegalArgumentExceptionjava/lan
g/StringBuilderFVunknown type
[]TFDTFGjava/lang/Enumjava/lang/Stringclone()Ljava/lang/Object;!org/elasticsearch/license/License5(Ljava/lang/
Class;Ljava/lang/String;)Ljava/lang/Enum;(Ljava/lang/String;I)Vjava/lang/Integer(II)Ijava/util/LocaleROOTLjava/u
til/Locale;toLowerCase&(Ljava/util/Locale;)Ljava/lang/String;hashCode()Iequals(Ljava/lang/Object;)Zappend-
(Ljava/lang/String;)Ljava/lang/StringBuilder;toString(Ljava/lang/String;)V@1/@03@43@53@63@73@839;<
=>?"
@V AB?4
*@VC
DEFG?H*+*`@`abCH39:IJ KL?@*+@fCM3N3 OB?*
L=+7
E;0`38.x! ?fjN=o,+
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FieldsInnerClassesTYPELjava/lang/String;
ConstantValueLICENSE_TOMBSTONE#Lorg/elasticsearch/license/License;licensetrialVersionLorg/elasticsearch/
Version;RuntimeVisibleAnnotations#Lorg/elasticsearch/common/Nullable;<init>A(Lorg/elasticsearch/license/Licen
se;Lorg/elasticsearch/Version;)VCodeLineNumberTableLocalVariableTablethis,Lorg/elasticsearch/license/Licenses
MetaData;
getLicense%()Lorg/elasticsearch/license/License;isEligibleForTrial()Z
StackMapTablegetMostRecentTrialVersion()Lorg/elasticsearch/Version;toString()Ljava/lang/String;equals(Ljava/la
ng/Object;);ZLjava/lang/Object;thathashCode()IresultIgetWriteableNamegetMinimalSupportedVersioncontext(Lja
va/util/EnumSet;
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>;fromXContent` (Lorg/elasticsearch/common/xcontent/XContentParser;)Lorg/elasticsearch/license/LicensesMetaD
ata;
fieldNameparser2Lorg/elasticsearch/common/xcontent/XContentParser;trialLicensetokenToken8Lorg/elasticsearch/
common/xcontent/XContentParser$Token;
Exceptions
toXContentParams(Lorg/elasticsearch/common/xcontent/XContentBuilder;Lorg/elasticsearch/common/xcontent/To
XContent$Params;)Lorg/elasticsearch/common/xcontent/XContentBuilder;builder3Lorg/elasticsearch/common/xco
ntent/XContentBuilder;params5Lorg/elasticsearch/common/xcontent/ToXContent$Params;writeTo4(Lorg/elasticsea
rch/common/io/stream/StreamOutput;)VstreamOutput1Lorg/elasticsearch/common/io/stream/StreamOutput;3(Lorg/
elasticsearch/common/io/stream/StreamInput;)VhasExercisedTrialZstreamInput0Lorg/elasticsearch/common/io/stre
am/StreamInput;readDiffFromW(Lorg/elasticsearch/common/io/stream/StreamInput;)Lorg/elasticsearch/cluster/Na
medDiff;Custom(Lorg/elasticsearch/common/io/stream/StreamInput;)Lorg/elasticsearch/cluster/NamedDiff<Lorg/el
asticsearch/cluster/metadata/MetaData$Custom;>;extractLicenseQ(Lorg/elasticsearch/license/LicensesMetaData;)L
org/elasticsearch/license/License;licensesMetaDatamergeZ(Lorg/elasticsearch/license/LicensesMetaData;)Lorg/elast
icsearch/license/LicensesMetaData;otherj(Lorg/elasticsearch/cluster/metadata/MetaData$Custom;)Lorg/elasticsear
ch/cluster/metadata/MetaData$Custom;<clinit>()VXPackMetaDataCustomLorg/elasticsearch/cluster/AbstractNamed
Diffable<Lorg/elasticsearch/cluster/metadata/MetaData$Custom;>;Lorg/elasticsearch/xpack/core/XPackPlugin$XPa
ckMetaDataCustom;Lorg/elasticsearch/cluster/MergableCustomMetaData<Lorg/elasticsearch/license/LicensesMeta
Data;>;
SourceFileLicensesMetaData.java1org/elasticsearch/license/LicensesMetaData$FieldsYTSUVVjava/lang/StringBuil
derLicensesMetaData{license=, trialVersion= gh
*org/elasticsearch/license/LicensesMetaDataajnllicenses
fRShz
trial_licensehYZ !"#%&'()*+f,V-
./01c234562org/elasticsearch/cluster/metadata/MetaData$Custom7 a8;.<=?trial@AB
elasticsearchCB
TOMBSTONEDBEBFGHIJKa/org/elasticsearch/cluster/AbstractNamedDiffableL<org/elasticsearch/xpack/core/X
PackPlugin$XPackMetaDataCustom0org/elasticsearch/cluster/MergableCustomMetaData;org/elasticsearch/cluster/
metadata/MetaData$XContentContext6org/elasticsearch/common/xcontent/XContentParser$Token!org/elasticsearch
h/license/Licenseorg/elasticsearch/Versionjava/lang/Stringjava/io/IOExceptionM3org/elasticsearch/common/xconte
nt/ToXContent$Params.org/elasticsearch/common/io/stream/StreamInputCURRENTmajorBappend-
(Ljava/lang/String;)Ljava/lang/StringBuilder;-
(Ljava/lang/Object;)Ljava/lang/StringBuilder;(C)Ljava/lang/StringBuilder;java/lang/ObjectgetClass()Ljava/lang/Cla
ss;minimumCompatibilityVersionGATEWAY=Lorg/elasticsearch/cluster/metadata/MetaData$XContentContext;jav
a/util/EnumSetof%(Ljava/lang/Enum;)Ljava/util/EnumSet;0org/elasticsearch/common/xcontent/XContentParser
nextToken:()Lorg/elasticsearch/common/xcontent/XContentParser$Token;
END_OBJECT
FIELD_NAMEcurrentNameSTART_OBJECTW(Lorg/elasticsearch/common/xcontent/XContentParser;)Lorg/elasti

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csearch/license/License;
VALUE_NULLtext
fromString(Ljava/lang/String;)Lorg/elasticsearch/Version;Iorg/elasticsearch/common/xcontent/XContentBuilder
nullFieldG(Ljava/lang/String;)Lorg/elasticsearch/common/xcontent/XContentBuilder;startObjecttoInnerXContent
endObject5(Lorg/elasticsearch/common/xcontent/XContentBuilder;fieldY(Ljava/lang/String;Ljava/lang/String;)Lor
g/elasticsearch/common/xcontent/XContentBuilder;/org/elasticsearch/common/io/stream/StreamOutputwriteBoolea
n(Z)V
getVersionV_6_1_0
onOrAfter(Lorg/elasticsearch/Version;)ZwriteVersionO(Lorg/elasticsearch/Version;Lorg/elasticsearch/common/io/s
tream/StreamOutput;)VreadBooleanreadLicenseU(Lorg/elasticsearch/common/io/stream/StreamInput;)Lorg/elastics
earch/license/License;readVersionM(Lorg/elasticsearch/common/io/stream/StreamInput;)Lorg/elasticsearch/Version
;+org/elasticsearch/cluster/metadata/MetaDataz(Ljava/lang/Class;Ljava/lang/String;Lorg/elasticsearch/common/io/st
ream/StreamInput;)Lorg/elasticsearch/cluster/NamedDiff;
operationMode
OperationMode3(Lorg/elasticsearch/license/License$OperationMode;/org/elasticsearch/license/License$Operation
Modecomparee(Lorg/elasticsearch/license/License$OperationMode;Lorg/elasticsearch/license/License$OperationM
ode;)IBuilder-
(Lorg/elasticsearch/license/License$Builder;)org/elasticsearch/license/License$Buildertype?(Ljava/lang/String;)Lor
g/elasticsearch/license/License$Builder;issueruidissuedTomaxNodes.(I)Lorg/elasticsearch/license/License$Builder;
issueDate.(J)Lorg/elasticsearch/license/License$Builder;
expiryDatebuild(org/elasticsearch/xpack/core/XPackPlugin,org/elasticsearch/common/xcontent/ToXContent!JKLO
PQRSTSUVWXYZ[Y**+*,\<=>?] ^_TSUV`a[*\B]^_bc[**\FG I]^_d @ef[*\M]^_gh[R(Y
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,*,*,\Z[_>`] ^_`klCm_d
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"%L#*W*$%MY+,&\Fz{ }~#(29@HOV`gqt]4#N|P~ }~zTSxVpdA
[A*
+'W+(W*+,)W+*W*+#+*,W+\"
%*1?] A^_AAd[I*+--+*+./01*+--+*+2*

,3;@H]I^_IdY[<*+3*+4
+501+3=+6& */3;] /<^_<d [3 7*8\] v [o**9L++\] TS_d[{(+**+;:*+*\ $&](^_(_d A[3 *+<] ^_[f*=>?@ABCDEFG
HI*
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,-./0 1#2)*vNBMwx@D 7 K 9@>
44 &
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./PREOrientationInnerClasses:Lorg/elasticsearch/license/ExpirationCallback$Orientation;POST$VALUES;[Lorg/el
asticsearch/license/ExpirationCallback$Orientation;values=())[Lorg/elasticsearch/license/ExpirationCallback$Orient
ation;CodeLineNumberTablevalueOfN(Ljava/lang/String;)Lorg/elasticsearch/license/ExpirationCallback$Orientatio
n;LocalVariableTablenameLjava/lang/String;<init>(Ljava/lang/String;I)Vthis

```

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Signature()V<clinit>LLjava/lang/Enum<Lorg/elasticsearch/license/ExpirationCallback$Orientation;>;
SourceFileExpirationCallback.java0128org/elasticsearch/license/ExpirationCallback$Orientation3
java/lang/Enumclone()Ljava/lang/Object;org/elasticsearch/license/ExpirationCallback5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;@1@
@ "
4
*
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JK AL
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`abcdeacknowledgeZtypeLjava/lang/String;<init>()VCodeLineNumberTableLocalVariableTablethis1Lorg/elasticsearch/license/PostStartTrialRequest;validate=(Lorg/elasticsearch/action/ActionRequestValidationException;setTypeE(Ljava/lang/String;)Lorg/elasticsearch/license/PostStartTrialRequest;getType()Ljava/lang/String;4(Z)Lorg/elasticsearch/license/PostStartTrialRequest;isAcknowledged()ZreadFrom3(Lorg/elasticsearch/common/io/stream/StreamInput;)Vin0Lorg/elasticsearch/common/io/stream/StreamInput;
StackMapTable
ExceptionsfwriteTo4(Lorg/elasticsearch/common/io/stream/StreamOutput;)Vout1Lorg/elasticsearch/common/io/stream/StreamOutput;versionLorg/elasticsearch/Version;g
SignatureLorg/elasticsearch/action/support/master/MasterNodeRequest<Lorg/elasticsearch/license/PostStartTrialRequest;>;
SourceFilePostStartTrialRequest.java$$%
!"#45hijk@lmn0o3trialp;<qrstuvw"java/lang/IllegalArgumentExceptionjava/lang/StringBuilder&All nodes in cluster must be version [xyzj] or newer to start trial with a different type than 'trial'. Attempting to write to a node with version [] with trial type [].{0$RHRequest must be acknowledged to send to a node with a version prior to [4]. Attempting to send request to node with version [] without acknowledgement./org/elasticsearch/license/PostStartTrialRequest9org/elasticsearch/action/support/master/MasterNodeRequestjava/io/IOExceptionorg/elasticsearch/Version.org/elasticsearch/common/io/stream/StreamInput getVersion()Lorg/elasticsearch/Version;V_6_3_0 onOrAfter(Lorg/elasticsearch/Version;)Z readStringreadBoolean/org/elasticsearch/common/io/stream/StreamOutputwriteString(Ljava/lang/String;)VwriteBoolean(Z)Vjava/lang/Stringequals(Ljava/lang/Object;)Zappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;-(Ljava/lang/Object;)Ljava/lang/StringBuilder;toString! !"#$%&8
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*;'YY,+**/YY,+*+'6
::;<=>'@3AMCkDrEFIL()*=>?@8
'AC29:BCDE
4q > ? @
AB
CD
2E
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G
2HI
2J
KL
2MN 3O 3P
QR
STUval$request$Lorg/elasticsearch/rest/RestRequest;
val$paramsWParamsInnerClasses5Lorg/elasticsearch/common/xcontent/ToXContent$params;this$00Lorg/elasticse
arch/license/RestGetLicenseAction;<init>(Lorg/elasticsearch/license/RestGetLicenseAction;Lorg/elasticsearch/rest/
RestChannel;Lorg/elasticsearch/rest/RestRequest;Lorg/elasticsearch/common/xcontent/ToXContent$params;)VCod
eLineNumberTableLocalVariableTablethis2Lorg/elasticsearch/license/RestGetLicenseAction$1;arg0$Lorg/elasticse
arch/rest/RestChannel;
buildResponse(Lorg/elasticsearch/license/GetLicenseResponse;Lorg/elasticsearch/common/xcontent/XContentBuild
er;)Lorg/elasticsearch/rest/RestResponse;response.Lorg/elasticsearch/license/GetLicenseResponse;builder3Lorg/elas
ticsearch/common/xcontent/XContentBuilder;
hasLicenseZ
StackMapTableXY
ExceptionsZl(Ljava/lang/Object;Lorg/elasticsearch/common/xcontent/XContentBuilder;)Lorg/elasticsearch/rest/Res
tResponse;
SignaturecLorg/elasticsearch/rest/action/RestBuilderInterface<Lorg/elasticsearch/license/GetLicenseResponse;>;
SourceFileRestGetLicenseAction.javaEnclosingMethod[]
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o,org/elasticsearch/license/GetLicenseResponse)*0org/elasticsearch/license/RestGetLicenseAction$11 org/elasticsea
rch/rest/action/RestBuilderInterface3org/elasticsearch/common/xcontent/ToXContent$params1 org/elasticsearch/co
mmon/xcontent/XContentBuilder!org/elasticsearch/rest/RestStatusjava/lang/Exception.org/elasticsearch/license/Res
tGetLicenseActionlambda$doPrepareRequest$0(Lorg/elasticsearch/xpack/core/XPackClient;Lorg/elasticsearch/prot
ocol/xpack/license/GetLicenseRequest;Lorg/elasticsearch/rest/RestRequest;Lorg/elasticsearch/common/xcontent/To
XContent$params;Lorg/elasticsearch/rest/RestChannel;)V(Lorg/elasticsearch/rest/RestChannel;)V"org/elasticsear
ch/rest/RestRequesthasParam(Ljava/lang/String;)ZprettyPrint5()Lorg/elasticsearch/common/xcontent/XContentBuild
er;ifAtEnd%()Lorg/elasticsearch/license/License;startObjectG(Ljava/lang/String;)Lorg/elasticsearch/common/xcont
ent/XContentBuilder;!org/elasticsearch/license/LicensetoInnerXContent(Lorg/elasticsearch/common/xcontent/XCont
entBuilder;Lorg/elasticsearch/common/xcontent/ToXContent$params;)Lorg/elasticsearch/common/xcontent/XCont
entBuilder; endObjectOK#Lorg/elasticsearch/rest/RestStatus;

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NOT_FOUNDY(Lorg/elasticsearch/rest/RestStatus;Lorg/elasticsearch/common/xcontent/XContentBuilder;)V,org/el
asticsearch/common/xcontent/ToXContent !"T*+*-*#C$ %&'()*^*W+ >,
W,W+,*
W,W,WY ,#*
GHJ!K&L*M1N>OCQHR$*^%&^+^-.!/=01;
@"2HH2HH345A)6"4
*+,#C$
%&45789;:<=V
4
<init>()VCodeLineNumberTableLocalVariableTablethisILorg/elasticsearch/license/GetTrialStatusRequest;validate
=(Lorg/elasticsearch/action/ActionRequestValidationException;
SignaturerLorg/elasticsearch/action/support/master/MasterNodeReadRequest<Lorg/elasticsearch/license/GetTrialSt
atusRequest;>;
SourceFileGetTrialStatusRequest.java/org/elasticsearch/license/GetTrialStatusRequest=org/elasticsearch/action/sup
port/master/MasterNodeReadRequest!3*
,
4}
2 345
6 7
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;<=CD
EF
GHI
J
KLMN<init>V(Lorg/elasticsearch/common/settings/Settings;Lorg/elasticsearch/rest/RestController;)VCodeLineNu
mberTableLocalVariableTablethis.Lorg/elasticsearch/license/RestGetBasicStatus;settings,Lorg/elasticsearch/commo
n/settings/Settings;
controllerLorg/elasticsearch/rest/RestController;doPrepareRequestPRestChannelConsumerInnerClasses(Lorg/elasti
csearch/rest/RestRequest;Lorg/elasticsearch/xpack/core/XPackClient;)Lorg/elasticsearch/rest/BaseRestHandler$Res
tChannelConsumer;request$Lorg/elasticsearch/rest/RestRequest;client*Lorg/elasticsearch/xpack/core/XPackClient;
getName()Ljava/lang/String;lambda$doPrepareRequest$0Q(Lorg/elasticsearch/xpack/core/XPackClient;Lorg/elastic
search/rest/RestChannel;)Vchannel$Lorg/elasticsearch/rest/RestChannel;
ExceptionsQ
SourceFileRestGetBasicStatus.javaRTVWjava/lang/StringBuilderXYZ[\\license/basic_status])^_/_license/basic_sta
tusBootstrapMethodsabcdefxpack_basic_status_actionghijkl4org/elasticsearch/rest/action/RestToXContentListenerd
mno,org/elasticsearch/license/RestGetBasicStatus2org/elasticsearch/xpack/core/rest/XPackRestHandlerp;org/elastic
search/rest/BaseRestHandler$RestChannelConsumerjava/lang/Exception/(Lorg/elasticsearch/common/settings/Setti
ngs;)Vq)org/elasticsearch/rest/RestRequest$MethodMethodGET+Lorg/elasticsearch/rest/RestRequest$Method;()V
URI_BASELjava/lang/String;append-
(Ljava/lang/String;)Ljava/lang/StringBuilder;toString%org/elasticsearch/rest/RestControllerregisterHandlerd(Lorg/e
lasticsearch/rest/RestRequest$Method;Ljava/lang/String;Lorg/elasticsearch/rest/RestHandler;)V
rs(Ljava/lang/Object;)V
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SourceFileXPackLicenseState.javajava/lang/Stringjavajava/lang/StringBuilder'Security will default to disabled (set to
enable security).=Authentication will be limited to the native and file realms.3Security tokens and API keys will not
be supported.+IP filtering and auditing will be disabled.9Field and document level access control will be
disabled.Custom realms will be ignored..A custom authorization engine will be ignored.4Authentication will be
limited to the native realms.Watcher will be disabledEMulti-cluster support is disabled for clusters with [{}] license.
If you are
running multiple clusters, users won't be able to access the clusters with
[{}] licenses from within a single X-Pack Kibana instance. You will have to deploy a
separate and dedicated X-pack Kibana instance for each [{}] cluster you wish to
monitor.java/lang/ObjectLAutomatic index cleanup is locked to {} days for clusters with [{}]
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]#org/apache/logging/log4j/LogManager
getLogger4(Ljava/lang/Class;)Lorg/apache/logging/log4j/Logger;\$(Lorg/apache/logging/log4j/Logger;)V"java/lang/
invoke/LambdaMetafactorymetafactoryLookup(Ljava/lang/invoke/MethodHandles\$Lookup;Ljava/lang/String;Ljava
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cense/LicenseService;Lorg/elasticsearch/threadpool/ThreadPool;Lorg/elasticsearch/action/support/ActionFilters;Lor
g/elasticsearch/cluster/metadata/IndexNameExpressionResolver;)VCodeLineNumberTableLocalVariableTablethis5
Lorg/elasticsearch/license/TransportGetLicenseAction;settings,Lorg/elasticsearch/common/settings/Settings;transpo
rtService.Lorg/elasticsearch/transport/TransportService;clusterService2Lorg/elasticsearch/cluster/service/ClusterSer
vice;
```

```
threadPool)Lorg/elasticsearch/threadpool/ThreadPool;
```

```
actionFilters0Lorg/elasticsearch/action/support/ActionFilters;indexNameExpressionResolver@Lorg/elasticsearch/cl
uster/metadata/IndexNameExpressionResolver;RuntimeVisibleAnnotations(Lorg/elasticsearch/common/inject/Inject
;executor()Ljava/lang/String;newResponse0()Lorg/elasticsearch/license/GetLicenseResponse;
```

```
checkBlock(Lorg/elasticsearch/protocol/xpack/license/GetLicenseRequest;Lorg/elasticsearch/cluster/ClusterState;)L
org/elasticsearch/cluster/block/ClusterBlockException;request<Lorg/elasticsearch/protocol/xpack/license/GetLicen
seRequest;state(Lorg/elasticsearch/cluster/ClusterState;masterOperation(Lorg/elasticsearch/protocol/xpack/licen
se/GetLicenseRequest;Lorg/elasticsearch/cluster/ClusterState;Lorg/elasticsearch/action/ActionListener;)Vlistener)Lorg/e
lasticsearch/action/ActionListener;LocalVariableTypeTableYLorg/elasticsearch/action/ActionListener<Lorg/elastic
earch/license/GetLicenseResponse;>;
```

```
Exceptionsj
```

```
Signature(Lorg/elasticsearch/protocol/xpack/license/GetLicenseRequest;Lorg/elasticsearch/cluster/ClusterState;Lor
g/elasticsearch/action/ActionListener<Lorg/elasticsearch/license/GetLicenseResponse;>;)V(Lorg/elasticsearch/actio
n/support/master/MasterNodeRequest;Lorg/elasticsearch/cluster/ClusterState;)Lorg/elasticsearch/cluster/block/Clu
sterBlockException;(Lorg/elasticsearch/action/support/master/MasterNodeRequest;Lorg/elasticsearch/cluster/Cluster
State;Lorg/elasticsearch/action/ActionListener;)Vk+()Lorg/elasticsearch/action/ActionResponse;Lorg/elasticsearch/
action/support/master/TransportMasterNodeReadAction<Lorg/elasticsearch/protocol/xpack/license/GetLicenseRequ
est;Lorg/elasticsearch/license/GetLicenseResponse;>;
```

```
SourceFileTransportGetLicenseAction.java*org/elasticsearch/license/GetLicenseAction!cluster:monitor/xpack/licen
se/getBootstrapMethodsImnopqrs-org/elasticsearch/threadpool/ThreadPool$NamesNamesInnerClasses
management.org/elasticsearch/license/GetLicenseResponsetuvwxyz{|}~:org/elasticsearch/protocol/xpack/license/Ge
tLicenseRequest1278/03org/elasticsearch/license/TransportGetLicenseActionEorg/elasticsearch/action/support/mast
er/TransportMasterNodeReadAction(org/elasticsearch/ElasticsearchExceptionjava/lang/Exception
()Ljava/lang/Object;
```

```
X>()Lorg/elasticsearch/protocol/xpack/license/GetLicenseRequest;get()Ljava/util/function/Supplier;W(Lorg/elastic
earch/common/settings/Settings;Ljava/lang/String;Lorg/elasticsearch/transport/TransportService;Lorg/elasticsearch/
cluster/service/ClusterService;Lorg/elasticsearch/threadpool/ThreadPool;Lorg/elasticsearch/action/support/ActionFil
ters;Lorg/elasticsearch/cluster/metadata/IndexNameExpressionResolver;Ljava/util/function/Supplier;)V'org/elastic
earch/threadpool/ThreadPool(V&org/elasticsearch/cluster/ClusterStateblocks1()Lorg/elasticsearch/cluster/block/Clu
sterBlocks;1org/elasticsearch/cluster/block/ClusterBlockLevel
```

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METADATA_READ3Lorg/elasticsearch/cluster/block/ClusterBlockLevel;-
```

```
org/elasticsearch/cluster/block/ClusterBlocksglobalBlockedExceptionnl(Lorg/elasticsearch/cluster/block/ClusterBloc
kLevel;)Lorg/elasticsearch/cluster/block/ClusterBlockException;(org/elasticsearch/license/LicenseService
getLicense%()Lorg/elasticsearch/license/License;&(Lorg/elasticsearch/license/License;)V'org/elasticsearch/action/A
ctionListener
```

```
onResponse(Ljava/lang/Object;V"java/lang/invoke/LambdaMetafactorymetafactoryLookup(Ljava/lang/invoke/Met
hodHandles$Lookup;Ljava/lang/String;Ljava/lang/invoke/MethodType;Ljava/lang/invoke/MethodType;Ljava/lang/i
nvoke/MethodHandle;Ljava/lang/invoke/MethodType;)Ljava/lang/invoke/CallSite;%java/lang/invoke/MethodHandl
```

es\$Lookupjava/lang/invoke/MethodHandles! \*+,-\*!"R !"#\$\$%&'()\*+,-.&/02Y +12I,  
0 345678s-Y\*  
67\*34569;:9<=>?@D1A4  
\*+,  
D7B5\*+,-=CD/D/\*?EFGURT JKLMN  
4  
<init>()VCodeLineNumberTableLocalVariableTablethis lLorg/elasticsearch/license/GetBasicStatusRequest;validate  
=()Lorg/elasticsearch/action/ActionRequestValidationException;  
SignaturerLorg/elasticsearch/action/support/master/MasterNodeReadRequest<Lorg/elasticsearch/license/GetBasicSt  
atusRequest;>;  
SourceFileGetBasicStatusRequest.java/org/elasticsearch/license/GetBasicStatusRequest=org/elasticsearch/action/su  
pport/master/MasterNodeReadRequest!3\*

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ACKNOWLEDGEMENT\_HEADERLjava/lang/String;

ConstantValueACK\_MESSAGESLjava/util/Map;



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Signature6Ljava/util/Map<Ljava/lang/String;[Ljava/lang/String;>;logger!Lorg/apache/logging/log4j/Logger;cluster
Namerequest!Lorg/elasticsearch/license/PostStartTrialRequest;listener)Lorg/elasticsearch/action/ActionListener;]L
org/elasticsearch/action/ActionListener<Lorg/elasticsearch/license/PostStartTrialResponse;>;clockLjava/time/Clock
;<init>(Lorg/apache/logging/log4j/Logger;Ljava/lang/String;Ljava/time/Clock;Lorg/elasticsearch/license/PostStartT
rialRequest;Lorg/elasticsearch/action/ActionListener;)VCodeLineNumberTableLocalVariableTablethis!Lorg/elastic
search/license/StartTrialClusterTask;LocalVariableTypeTable(Lorg/apache/logging/log4j/Logger;Ljava/lang/String;
Ljava/time/Clock;Lorg/elasticsearch/license/PostStartTrialRequest;Lorg/elasticsearch/action/ActionListener<Lorg/e
lasticsearch/license/PostStartTrialResponse;>);VclusterStateProcessede(Ljava/lang/String;Lorg/elasticsearch/cluster
/ClusterState;Lorg/elasticsearch/cluster/ClusterState;)VsourceoldState(Lorg/elasticsearch/cluster/ClusterState;newSt
ateoldLicensesMetaData,Lorg/elasticsearch/license/LicensesMetaData;
StackMapTableexecuteR(Lorg/elasticsearch/cluster/ClusterState;)Lorg/elasticsearch/cluster/ClusterState; issueDateJ
mdBuilderBuilderInnerClasses5Lorg/elasticsearch/cluster/metadata/MetaData$Builder;
expiryDatespecBuilder+Lorg/elasticsearch/license/License$Builder;selfGeneratedLicense#Lorg/elasticsearch/licens
e/License;newLicensesMetaDatacurrentStatecurrentLicensesMetaData
Exceptions
onFailure*(Ljava/lang/String;Ljava/lang/Exception;)VeLjava/lang/Exception;"RuntimeVisibleParameterAnnotation
s#Lorg/elasticsearch/common/Nullable;<clinit>()V
SourceFileStartTrialClusterTask.javaLyBCD<EFGHJK*org/elasticsearch/license/LicensesMetaDatalicens(es(started
self generated trial license:
{ }0org/elasticsearch/license/PostStartTrialResponse>?/org/elasticsearch/license/StartTrialClusterTask"This API
initiates a free 30-day trial for all platinum features. By starting this trial, you agree that it is subject to the terms and
conditions at https://www.elastic.co/legal/trial_license/. To begin your free trial, call /start_trial again and specify
the "acknowledge=true" parameter.LL(org/elasticsearch/license/LicenseService`gL
5org/apache/logging/log4j/message/ParameterizedMessageunexpected failure during [{}]]L
rsecurityjava/lang/String]With a trial license, X-Pack security features are available, but are not enabled by
default.0org/elasticsearch/cluster/ClusterStateUpdateTask3org/elasticsearch/cluster/metadata/MetaData$Builder)org
/elasticsearch/license/License$Builderjava/lang/Exception&org/elasticsearch/cluster/ClusterStatemetaData/()Lorg/el
asticsearch/cluster/metadata/MetaData;+org/elasticsearch/cluster/metadata/MetaDatacustomCustomH(Ljava/lang/St
ring;)Lorg/elasticsearch/cluster/metadata/MetaData$Custom;org/apache/logging/log4j/Loggerdebug'(Ljava/lang/Stri
ng;Ljava/lang/Object;)V/org/elasticsearch/license/PostStartTrialRequestisAcknowledged()Z7org/elasticsearch/licens
e/PostStartTrialResponse$StatusStatusNEED_ACKNOWLEDGEMENT9Lorg/elasticsearch/license/PostStartTrialR
esponse$Status;](Lorg/elasticsearch/license/PostStartTrialResponse$Status;Ljava/util/Map;Ljava/lang/String;)V'org/
elasticsearch/action/ActionListener
onResponse(Ljava/lang/Object;V)isEligibleForTrialUPGRADED_TO_TRIAL<(Lorg/elasticsearch/license/PostStart
TrialResponse$Status;)VTRIAL_ALREADY_ACTIVATED(org/elasticsearch/xpack/core/XPackPlugin
checkReadyForXPackCustomMetadata+(Lorg/elasticsearch/cluster/ClusterState;)Vjava/time/Clockmillis()J)builderd
(Lorg/elasticsearch/cluster/metadata/MetaData;)Lorg/elasticsearch/cluster/metadata/MetaData$Builder;)NON_BASI
C_SELF_GENERATED_LICENSE_DURATION)Lorg/elasticsearch/common/unit/TimeValue;'org/elasticsearch/co
mmon/unit/TimeValue getMillis!org/elasticsearch/license/License-
()Lorg/elasticsearch/license/License$Builder;java/util/UUID
randomUUID()Ljava/util/UUID;toString()Ljava/lang/String;uid?(Ljava/lang/String;)Lorg/elasticsearch/license/Lice
nse$Builder;issuedTomaxNodes.(I)Lorg/elasticsearch/license/License$Builder;.(J)Lorg/elasticsearch/license/Licens
e$Builder;getTypetypenodes!()Lorg/elasticsearch/cluster/node/DiscoveryNodes;org/elasticsearch/license/SelfGener
atedLicensecreate(Lorg/elasticsearch/license/License$Builder;Lorg/elasticsearch/cluster/node/DiscoveryNodes;Lor
g/elasticsearch/license/License;org/elasticsearch/VersionCURRENTLorg/elasticsearch/Version;A(Lorg/elasticsearch
h/license/License;Lorg/elasticsearch/Version;)V
putCustom}(Ljava/lang/String;Lorg/elasticsearch/cluster/metadata/MetaData$Custom;)Lorg/elasticsearch/cluster/m
etadata/MetaData$Builder;Z(Lorg/elasticsearch/cluster/ClusterState;)Lorg/elasticsearch/cluster/ClusterState$Builder

```

org/elasticsearch/cluster/ClusterState\$Builder(Lorg/elasticsearch/cluster/metadata/MetaData\$Builder;)Lorg/elasticsearch/cluster/ClusterState\$Builder;build\*(Lorg/elasticsearch/cluster/ClusterState;errorB(Lorg/apache/logging/log4j/message/Message;Ljava/lang/Throwable;)V(Ljava/lang/Exception;)Vjava/util/Collection\$SingletonMap5(Ljava/lang/Object;Ljava/lang/Object;)Ljava/util/Map;2org/elasticsearch/cluster/metadata/MetaData\$Custom!;<=>?@ABCD<EFGH@IJKLMN \*\*+\*,\*\*\*-O() \*+,-.P> QR BC D< JK EF GHS GI@TUVNw,

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<init>1(Lorg/elasticsearch/client/ElasticsearchClient;)VCodeLineNumberTableLocalVariableTablethis7Lorg/elasticsearch/license/DeleteLicenseRequestBuilder;client.Lorg/elasticsearch/client/ElasticsearchClient;`(Lorg/elasticsearch/client/ElasticsearchClient;Lorg/elasticsearch/license/DeleteLicenseAction;)Vaction/Lorg/elasticsearch/license/DeleteLicenseAction;

SignatureLorg/elasticsearch/action/support/master/AcknowledgedRequestBuilder<Lorg/elasticsearch/protocol/xpack/license/DeleteLicenseRequest;Lorg/elasticsearch/action/support/master/AcknowledgedResponse;Lorg/elasticsearch/license/DeleteLicenseRequestBuilder;>;

SourceFile DeleteLicenseRequestBuilder.java

!org/elasticsearch/protocol/xpack/license/DeleteLicenseRequest"#5org/elasticsearch/license/DeleteLicenseRequestBuilderBorg/elasticsearch/action/support/master/AcknowledgedRequestBuilder-org/elasticsearch/license/DeleteLicenseActionINSTANCE()V(Lorg/elasticsearch/client/ElasticsearchClient;Lorg/elasticsearch/action/Action;Lorg/elasticsearch/action/support/master/AcknowledgedRequest;)V!

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SourceFileLicense.javaEnclosingMethod

#org/elasticsearch/license/License\$1InnerClassesjava/lang/Object!org/elasticsearch/license/License

4'

!<init>a(Lorg/elasticsearch/client/ElasticsearchClient;Lorg/elasticsearch/license/PostStartTrialAction;)VCodeLineNumberTableLocalVariableTablethis8Lorg/elasticsearch/license/PostStartTrialRequestBuilder;client.Lorg/elasticsearch/client/ElasticsearchClient;action0Lorg/elasticsearch/license/PostStartTrialAction;setAcknowledge;(Z)Lorg/elasticsearch/license/PostStartTrialRequestBuilder;acknowledgeZ

SignatureLorg/elasticsearch/action/ActionRequestBuilder<Lorg/elasticsearch/license/PostStartTrialRequest;Lorg/elasticsearch/license/PostStartTrialResponse;Lorg/elasticsearch/license/PostStartTrialRequestBuilder;>;

SourceFile!PostStartTrialRequestBuilder.java/org/elasticsearch/license/PostStartTrialRequest"#\$\$&6org/elasticsearch

ch/license/PostStartTrialRequestBuilder-  
org/elasticsearch/action/ActionRequestBuilder()Vz(Lorg/elasticsearch/client/ElasticsearchClient;Lorg/elasticsearch/  
action/Action;Lorg/elasticsearch/action/ActionRequest;)Vrequest(Lorg/elasticsearch/action/ActionRequest;4(Z)Lor  
g/elasticsearch/license/PostStartTrialRequest;  
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bcdlicenseService\*Lorg/elasticsearch/license/LicenseService;<init>R(Lorg/elasticsearch/common/settings/Settings;  
Lorg/elasticsearch/transport/TransportService;Lorg/elasticsearch/cluster/service/ClusterService;Lorg/elasticsearch/li  
cense/LicenseService;Lorg/elasticsearch/threadpool/ThreadPool;Lorg/elasticsearch/action/support/ActionFilters;Lor  
g/elasticsearch/cluster/metadata/IndexNameExpressionResolver;)VCodeLineNumberTableLocalVariableTablethis5  
Lorg/elasticsearch/license/TransportPutLicenseAction;settings,Lorg/elasticsearch/common/settings/Settings;transpo  
rtService.Lorg/elasticsearch/transport/TransportService;clusterService2Lorg/elasticsearch/cluster/service/ClusterSer  
vice;  
threadPool)Lorg/elasticsearch/threadpool/ThreadPool;  
actionFilters0Lorg/elasticsearch/action/support/ActionFilters;indexNameExpressionResolver@Lorg/elasticsearch/cl  
uster/metadata/IndexNameExpressionResolver;RuntimeVisibleAnnotations(Lorg/elasticsearch/common/inject/Inject  
;executor()Ljava/lang/String;newResponse?())Lorg/elasticsearch/protocol/xpack/license/PutLicenseResponse;  
checkBlock(Lorg/elasticsearch/license/PutLicenseRequest;Lorg/elasticsearch/cluster/ClusterState;)Lorg/elasticsearch  
h/cluster/block/ClusterBlockException;request-  
Lorg/elasticsearch/license/PutLicenseRequest;state(Lorg/elasticsearch/cluster/ClusterState;masterOperation(Lorg/el  
asticsearch/license/PutLicenseRequest;Lorg/elasticsearch/cluster/ClusterState;Lorg/elasticsearch/action/ActionListe  
ner;)Vlistener)Lorg/elasticsearch/action/ActionListener;LocalVariableTypeTablehLorg/elasticsearch/action/ActionL  
istener<Lorg/elasticsearch/protocol/xpack/license/PutLicenseResponse;>;  
Exceptionse  
Signature(Lorg/elasticsearch/license/PutLicenseRequest;Lorg/elasticsearch/cluster/ClusterState;Lorg/elasticsearch/a  
ction/ActionListener<Lorg/elasticsearch/protocol/xpack/license/PutLicenseResponse;>);V(Lorg/elasticsearch/action  
/support/master/MasterNodeRequest;Lorg/elasticsearch/cluster/ClusterState;)Lorg/elasticsearch/cluster/block/Cluste  
rBlockException;(Lorg/elasticsearch/action/support/master/MasterNodeRequest;Lorg/elasticsearch/cluster/ClusterSt  
ate;Lorg/elasticsearch/action/ActionListener;)Vf+()Lorg/elasticsearch/action/ActionResponse;Lorg/elasticsearch/act  
ion/support/master/TransportMasterNodeAction<Lorg/elasticsearch/license/PutLicenseRequest;Lorg/elasticsearch/p  
rotocol/xpack/license/PutLicenseResponse;>;  
SourceFileTransportPutLicenseAction.java\*org/elasticsearch/license/PutLicenseActioncluster:admin/xpack/license/  
putBootstrapMethodsgghijklmn-org/elasticsearch/threadpool/ThreadPool\$NamesNamesInnerClasses  
management;org/elasticsearch/protocol/xpack/license/PutLicenseResponseopqrstuvwxyz{+org/elasticsearch/license/  
PutLicenseRequest/056-  
.3org/elasticsearch/license/TransportPutLicenseActionAorg/elasticsearch/action/support/master/TransportMasterNo  
deAction(org/elasticsearch/ElasticsearchExceptionjava/lang/Exception

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}()Ljava/lang/Object;
V/()Lorg/elasticsearch/license/PutLicenseRequest;get()Ljava/util/function/Supplier;W(Lorg/elasticsearch/common/s
ettings/Settings;Ljava/lang/String;Lorg/elasticsearch/transport/TransportService;Lorg/elasticsearch/cluster/service/C
lusterService;Lorg/elasticsearch/threadpool/ThreadPool;Lorg/elasticsearch/action/support/ActionFilters;Lorg/elastic
search/cluster/metadata/IndexNameExpressionResolver;Ljava/util/function/Supplier;)V'org/elasticsearch/threadpool
/ThreadPool()V&org/elasticsearch/cluster/ClusterStateblocks1()Lorg/elasticsearch/cluster/block/ClusterBlocks;lorg
/elasticsearch/cluster/block/ClusterBlockLevelMETADATA_WRITE3Lorg/elasticsearch/cluster/block/ClusterBlock
Level;-
org/elasticsearch/cluster/block/ClusterBlocksglobalBlockedExceptionl(Lorg/elasticsearch/cluster/block/ClusterBloc
kLevel;)Lorg/elasticsearch/cluster/block/ClusterBlockException;(org/elasticsearch/license/LicenseServiceregisterLi
censeY(Lorg/elasticsearch/license/PutLicenseRequest;Lorg/elasticsearch/action/ActionListener;)V~"java/lang/invoke
/LambdaMetafactorymetafactoryLookup(Ljava/lang/invoke/MethodHandles$Lookup;Ljava/lang/String;Ljava/lang/
invoke/MethodType;Ljava/lang/invoke/MethodType;Ljava/lang/invoke/MethodHandle;Ljava/lang/invoke/MethodT
ype;)Ljava/lang/invoke/CallSite;%java/lang/invoke/MethodHandles$Lookupjava/lang/invoke/MethodHandles! *+,-
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<init>I(Lorg/elasticsearch/client/ElasticsearchClient;)VCodeLineNumberTableLocalVariableTablethis4Lorg/elastic
search/license/GetLicenseRequestBuilder;client.Lorg/elasticsearch/client/ElasticsearchClient;](Lorg/elasticsearch/cli
ent/ElasticsearchClient;Lorg/elasticsearch/license/GetLicenseAction;)Vaction,Lorg/elasticsearch/license/GetLicense
Action;
SignatureLorg/elasticsearch/action/support/master/MasterNodeReadOperationRequestBuilder<Lorg/elasticsearch/pr
otocol/xpack/license/GetLicenseRequest;Lorg/elasticsearch/license/GetLicenseResponse;Lorg/elasticsearch/license/
GetLicenseRequestBuilder;>;
SourceFileGetLicenseRequestBuilder.java
!:org/elasticsearch/protocol/xpack/license/GetLicenseRequest"#2org/elasticsearch/license/GetLicenseRequestBuilde
rMorg/elasticsearch/action/support/master/MasterNodeReadOperationRequestBuilder*org/elasticsearch/license/Get
LicenseActionINSTANCE()V(Lorg/elasticsearch/client/ElasticsearchClient;Lorg/elasticsearch/action/Action;Lorg/e
lasticsearch/action/support/master/MasterNodeReadRequest;)V!
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KEY\_ALGORITHMLjava/lang/String;

ConstantValueDEFAULT\_PASS\_PHRASE[C

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DOMLjava/security/SecureRandom;<init>()VCodeLineNumberTableLocalVariableTablethis&Lorg/elasticsearch/li

cence/CryptUtils;readEncryptedPrivateKey([B)Ljava/security/PrivateKey;fileContentswriteEncryptedPrivateKey(Lj  
ava/security/PrivateKey;)[B

privateKeyLjava/security/PrivateKey;!([B[CZ)Ljava/security/PrivateKey;e(Ljava/security/GeneralSecurityExceptio  
n;

passPhrasepreV4ZkeyBytesprivateKeySpec(Ljava/security/spec/PKCS8EncodedKeySpec;

StackMapTableDI

readPublicKey([B)Ljava/security/PublicKey;

publicKeySpecLjava/security/spec/X509EncodedKeySpec;writeEncryptedPublicKey(Ljava/security/PublicKey;)[B

publicKeyLjava/security/PublicKey;encodedKeySpec (Ljava/security/PrivateKey;[C][Bencrypt([B][Bdatadecrypt  
encryptedData([B][C][BencryptionCipherLjavax/crypto/Cipher;cipherencryptV3Format  
encryptionKeyLjavax/crypto/SecretKey;decryptV3Format  
decryptionKeydecryptionCiphergetV3Key()Ljavax/crypto/SecretKey;ijsalt  
passBytesdigesthashedPassphraseKeySpecLjavax/crypto/spec/PBEKeySpec;shortKeyintermediaryKey  
ExceptionsderiveSecretKey([C)Ljavax/crypto/SecretKey;  
secretKeygetEncryptionCipher/(Ljavax/crypto/SecretKey;)Ljavax/crypto/Cipher;getDecryptionCipher  
getCipher0(ILjavax/crypto/SecretKey;)Ljavax/crypto/Cipher;modepad([BI][BoutbyteslengthpaddedfillunPadtargetL  
ength<clinit>  
SourceFileCryptUtils.javaSTHIZa]vxz|&java/security/spec/PKCS8EncodedKeySpecS\$org/elasticsearch/license/Cryp  
ptUtilsRSA&java/security/NoSuchAlgorithmException\*java/security/spec/InvalidKeySpecExceptionjava/lang/Illeg  
alStateExceptionS%java/security/spec/X509EncodedKeySpecw|x&javax/crypto/IllegalBlockSizeException  
javax/crypto/BadPaddingException&java/security/GeneralSecurityExceptionxelasticsearch-licenseSHA-512x

javax/crypto/spec/PBEKeySpecSPBEWithSHA1AndDESedejavax/crypto/spec/SecretKeySpecAESSCDPBKDF2W  
ithHmacSHA512javax/crypto/CipherQR!java/security/InvalidKeyException#javax/crypto/NoSuchPaddingExceptio  
njava/security/SecureRandomjava/lang/Object([B)Vjava/security/KeyFactorygetInstance.(Ljava/lang/String;)Lj  
ava/security/KeyFactory;generatePrivate8(Ljava/security/spec/KeySpec;)Ljava/security/PrivateKey;(Ljava/lang/Throwab  
le;)VgeneratePublic7(Ljava/security/spec/KeySpec;)Ljava/security/PublicKey;java/security/PublicKey  
getEncoded()[Bjava/security/PrivateKeydoFinal!java/nio/charset/StandardCharsetsUTF\_8Ljava/nio/charset/Charset;  
java/lang/StringgetBytes(Ljava/nio/charset/Charset;)[Bjava/security/MessageDigest1(Ljava/lang/String;)Lj  
ava/security/MessageDigest;java/util/Base64

getEncoderEncoderInnerClasses()Ljava/util/Base64\$Encoder;java/util/Base64\$EncoderencodeToString([B)Ljava/la  
ng/String;toCharArray()[C

([C[BII)Vjavax/crypto/SecretKeyFactory3(Ljava/lang/String;)Ljavax/crypto/SecretKeyFactory;generateSecret6(Lj  
ava/security/spec/KeySpec;)Ljavax/crypto/SecretKey;javax/crypto/SecretKey([BLjava/lang/String;)V(Ljava/lang/Str  
ing;)Ljavax/crypto/Cipher;init3(ILjava/security/Key;Ljava/security/SecureRandom;)Vjava/lang/System  
arraycopy\*(Ljava/lang/Object;ILjava/lang/Object;II)V nextBytes! BCDEFG  
HIJFG6KLG MNFG3OLGPQRSTU/\*VWXYZ Z[U3 \*V5W \D ]^U2\*V<W\_` ZaU2

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w|U+M,\*MY,

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Ub\*\*`M\*,\*,>,\*T,`M>\*,\*3Td6d::?,d>`,`T,VB  
#%+17<DLX`WH  
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xUr\*\*d3<\*d=N\*->-VW\*DLL  
DTUyTYtTYhTYiTYsTYiTYtTYhTYeTY sTY  
aTYITYtTY  
wTYeTYuT5#+@YA:V!a(i/

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%StatusInnerClassesPre63Statusstatus9Lorg/elasticsearch/license/PostStartTrialResponse$Status;acknowledgeMessagesLjava/util/Map;
Signature6Ljava/util/Map<Ljava/lang/String;[Ljava/lang/String;>;acknowledgeMessageLjava/lang/String;<init>()V
CodeLineNumberTableLocalVariableTablethis2Lorg/elasticsearch/license/PostStartTrialResponse;<(Lorg/elasticsearch/license/PostStartTrialResponse$Status;)V)(Lorg/elasticsearch/license/PostStartTrialResponse$Status;Ljava/util/Map;Ljava/lang/String;)VLocalVariableTypeTable(Lorg/elasticsearch/license/PostStartTrialResponse$Status;Ljava/util/Map<Ljava/lang/String;[Ljava/lang/String;>;Ljava/lang/String;)V
getStatus;()Lorg/elasticsearch/license/PostStartTrialResponse$Status;readFrom3(Lorg/elasticsearch/common/io/stream/StreamInput;)VjIfeature
nMessagesmessages[Ljava/lang/String;isizein0Lorg/elasticsearch/common/io/stream/StreamInput;
StackMapTable
ExceptionswriteTo4(Lorg/elasticsearch/common/io/stream/StreamOutput;)VmessageentryEntryLjava/util/Map$Entry;out1Lorg/elasticsearch/common/io/stream/StreamOutput;versionLorg/elasticsearch/Version;<Ljava/util/Map$Entry<Ljava/lang/String;[Ljava/lang/String;>;getAcknowledgementMessages()Ljava/util/Map;8()Ljava/util/Map<Ljava/lang/String;[Ljava/lang/String;>;getAcknowledgementMessage()Ljava/lang/String;
SourceFilePostStartTrialResponse.java=>j=E5678;<7org/elasticsearch/license/PostStartTrialResponse$Statusdmjava/util/HashMap=mjava/lang/StringSjava/util/Map$Entry66"java/lang/IllegalArgumentExceptionjava/lang/StringBuil
```

```

der%Starting trial on node with version [d%] requires acknowledgement
parameter.m=0org/elasticsearch/license/PostStartTrialResponse'org/elasticsearch/action/ActionResponse<org/elastic
search/license/PostStartTrialResponse$Pre63Status
java/util/Map.org/elasticsearch/common/io/stream/StreamInputjava/io/IOExceptionorg/elasticsearch/Versionjava/uti
l/Iterator/org/elasticsearch/common/io/stream/StreamOutputjava/util/CollectionemptyMapreadEnum#(Ljava/lang/C
lass;)Ljava/lang/Enum;
getVersion()Lorg/elasticsearch/Version;V_6_3_0
onOrAfter(Lorg/elasticsearch/Version;)ZreadOptionalStringreadVInt()I(I)V
readStringput8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;
writeEnum(Ljava/lang/Enum;)VwriteOptionalString(Ljava/lang/String;)V writeVIntentrySet()Ljava/util/Set;
java/util/Setiterator()Ljava/util/Iterator;hasNext()Znext()Ljava/lang/Object;getKeywriteStringgetValueUPGRADED
_TO_TRIAL>Lorg/elasticsearch/license/PostStartTrialResponse$Pre63Status;TRIAL_ALREADY_ACTIVATEDa
ppend-(Ljava/lang/String;)Ljava/lang/StringBuilder;CURRENT-
(Ljava/lang/Object;)Ljava/lang/StringBuilder;toString /056789;=<=>?3*@
;<ABC=D?B
*+@
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56=E?~**+*,*-.@BC DEFA *BC5678;<F7:9GHI?/* @IABJK? *++
g*++
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6:6+S-W*-
*@JN
OP"Q'R0S9T?UEVLWVX_WeZpSv\{]~^`A\ OLM?1N<E+OML$PQ3CRM'TSM0K78BCTUF0K7:V<3W /XW
/XWYZ[\?
M+,+*+*+*N-\:++ :662:+M*!
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+$$% Y&Y'()*+,).- @Jdefgh,iOj]klmloqrstvzA4]<OK^`BCabcdFOK^eV@;fgD/hfg
/hfg!YZij?/* @ }ABC9klm?/* @ABCno2/1 @3/4@W_
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]^_`InnerClasses<init>V(Lorg/elasticsearch/common/settings/Settings;Lorg/elasticsearch/rest/RestController;)VCod
eLineNumberTableLocalVariableTablethis5Lorg/elasticsearch/license/RestPostStartTrialLicense;settings,Lorg/elasti
csearch/common/settings/Settings;
controllerLorg/elasticsearch/rest/RestController;doPrepareRequestbRestChannelConsumer(Lorg/elasticsearch/rest/
RestRequest;Lorg/elasticsearch/xpack/core/XPackClient;)Lorg/elasticsearch/rest/BaseRestHandler$RestChannelCo
nsumer;request$Lorg/elasticsearch/rest/RestRequest;client*Lorg/elasticsearch/xpack/core/XPackClient;startTrialRe

```



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quest1Lorg/elasticsearch/license/PostStartTrialRequest;
ExceptionsgetName()Ljava/lang/String;lambda$doPrepareRequest$0(Lorg/elasticsearch/xpack/core/XPackClient;L
org/elasticsearch/license/PostStartTrialRequest;Lorg/elasticsearch/rest/RestChannel;)Vchannel$Lorg/elasticsearch/r
est/RestChannel;d
SourceFileRestPostStartTrialLicense.javaefhjava/lang/StringBuilderjklmn/license/start_trialo5pqr/_license/start_tri
al/org/elasticsearch/license/PostStartTrialRequesttypetrialstuvwacknowledgexyOzBootstrapMethods{~}~xpack_upg
rade_to_trial_action5org/elasticsearch/license/RestPostStartTrialLicense$13org/elasticsearch/license/RestPostStartT
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nelConsumerjava/io/IOExceptionjava/lang/Exception/(Lorg/elasticsearch/common/settings/Settings;)V)org/elasticse
arch/rest/RestRequest$MethodMethodPOST+Lorg/elasticsearch/rest/RestRequest$Method;()VURI_BASELjava/lan
g/String;append-
(Ljava/lang/String;)Ljava/lang/StringBuilder;toString%org/elasticsearch/rest/RestControllerregisterHandlerd(Lorg/e
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st/RestRequestparam8(Ljava/lang/String;Ljava/lang/String;)Ljava/lang/String;setTypeE(Ljava/lang/String;)Lorg/ela
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StartTrialRequest;
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stStartTrial](Lorg/elasticsearch/license/PostStartTrialRequest;Lorg/elasticsearch/action/ActionListener;)V&org/elast
icsearch/rest/BaseRestHandler67"java/lang/invoke/LambdaMetafactorymetafactoryLookup(Ljava/lang/invoke/Meth
odHandles$Lookup;Ljava/lang/String;Ljava/lang/invoke/MethodType;Ljava/lang/invoke/MethodType;Ljava/lang/in
voke/MethodHandle;Ljava/lang/invoke/MethodType;)Ljava/lang/invoke/CallSite;%java/lang/invoke/MethodHandle
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logger!Lorg/apache/logging/log4j/Logger;selfGeneratedLicenseMaxNodesIsettings,Lorg/elasticsearch/common/settings/Settings;clockLjava/time/Clock;clusterService2Lorg/elasticsearch/cluster/service/ClusterService;<init>r(Lorg/elasticsearch/common/settings/Settings;Ljava/time/Clock;Lorg/elasticsearch/cluster/service/ClusterService;)VCodeLineNumberTableLocalVariableTablethis;Lorg/elasticsearch/license/StartupSelfGeneratedLicenseTask;clusterStateProcessed(Ljava/lang/String;Lorg/elasticsearch/cluster/ClusterState;Lorg/elasticsearch/cluster/ClusterState;)VsourceLjava/lang/String;oldState(Lorg/elasticsearch/cluster/ClusterState;newStateLicensesMetaData,Lorg/elasticsearch/licenses/LicensesMetaData;StackMapTableexecuteR(Lorg/elasticsearch/cluster/ClusterState;)Lorg/elasticsearch/cluster/ClusterState;typecurrentStateMetaData-Lorg/elasticsearch/cluster/metadata/MetaData;currentLicensesMetaDataExceptionsupdateLicenseSignature~(Lorg/elasticsearch/cluster/ClusterState;Lorg/elasticsearch/license/LicensesMetaData;)Lorg/elasticsearch/cluster/ClusterState;currentLicenseMetaDatalicense#Lorg/elasticsearch/license/License;mdBuilderBuilderInnerClasses5Lorg/elasticsearch/cluster/metadata/MetaData$Builder; issueDateJexpiryDatespecBuilder+Lorg/elasticsearch/license/License$Builder;selfGeneratedLicensesVersionLorg/elasticsearch/Version;newLicenseMetadataonFailure*(Ljava/lang/String;Ljava/lang/Exception;)VeLjava/lang/Exception;"RuntimeVisibleParameterAnnotation#Lorg/elasticsearch/common/Nullable;extendBasiccurrentLicenseMetadata%createBasicLicenseFromExistingLicenseZ(Lorg/elasticsearch/licenses/LicensesMetaData;)Lorg/elasticsearch/licenses/LicensesMetaData;currentLicenseupdateWithLicensed(Lorg/elasticsearch/cluster/ClusterState;Ljava/lang/String;)Lorg/elasticsearch/cluster/ClusterState;
```

```
lambda$onFailure$0&(Ljava/lang/String;)Ljava/lang/Object;<clinit>()V
SourceFile$StartupSelfGeneratedLicenseTask.javaZRSTUVWXYo*org/elasticsearch/license/LicensesMetaDatalice
nsesPQ
%registered self generated license: {}
java/lang/String"java/lang/IllegalArgumentExceptionjava/lang/StringBuilder%Illegal self generated license type [].
Must be trial or basic.Z !"#uv%&v'(m))basic*+,'-./00/123m/34567Z89:QUpdating existing license to the new
version.
```

Old license:

```
{}
```

New license:

```
{};<'=>o?@ABootstrapMethodsBCDEFGExisting basic license has an expiration. Basic licenses no longer
expire.Regenerating license.
```

Old license:

```
{}
```

New license:

```
{ }HI4JKL)MNOP)QRSTUUVWXtrialYZ5org/apache/logging/log4j/message/ParameterizedMessageunexpected
failure during
[{ }Z9org/elasticsearch/license/StartupSelfGeneratedLicenseTask[]\0org/elasticsearch/cluster/ClusterStateUpdateTa
sk+org/elasticsearch/cluster/metadata/MetaDatajava/lang/Exception3org/elasticsearch/cluster/metadata/MetaData$B
uilder)org/elasticsearch/license/License$Builder&org/elasticsearch/cluster/ClusterState!org/elasticsearch/license/Lic
ense()/Lorg/elasticsearch/cluster/metadata/MetaData;custom^CustomH(Ljava/lang/String;)Lorg/elasticsearch/cluster
/metadata/MetaData$Custom;org/apache/logging/log4j/LoggerisDebugEnabled()Zdebug'(Ljava/lang/String;Ljava/la
ng/Object;)V(org/elasticsearch/xpack/core/XPackPlugin
checkReadyForXPackCustomMetadata+(Lorg/elasticsearch/cluster/ClusterState;)V(org/elasticsearch/license/Licens
eServiceSELF_GENERATED_LICENSE_TYPE+Lorg/elasticsearch/common/settings/Setting;)org/elasticsearch/co
mmon/settings/Settingget@(Lorg/elasticsearch/common/settings/Settings;)Ljava/lang/Object;.org/elasticsearch/licen
se/SelfGeneratedLicensevalidSelfGeneratedType(Ljava/lang/String;)Zappend-
(Ljava/lang/String;)Ljava/lang/StringBuilder;toString()Ljava/lang/String;(Ljava/lang/String;)V
getLicense%()Lorg/elasticsearch/license/License;nodesl()Lorg/elasticsearch/cluster/node/DiscoveryNodes;&org/ela
sticsearch/license/LicenseUtilssignatureNeedsUpdateU(Lorg/elasticsearch/license/License;Lorg/elasticsearch/cluster
/node/DiscoveryNodes;)ZlicenseNeedsExtended&(Lorg/elasticsearch/license/License;)Zbuilderd(Lorg/elasticsearch
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cense/License;getMostRecentTrialVersion()Lorg/elasticsearch/Version;A(Lorg/elasticsearch/license/License;Lorg/e
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etadata/MetaData$Builder;info9(Ljava/lang/String;Ljava/lang/Object;Ljava/lang/Object;)VZ(Lorg/elasticsearch/clu
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asticsearch/cluster/ClusterState;
_`()Ljava/lang/Object;
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ava/lang/Throwable;)Vversion()IQ(Lorg/elasticsearch/license/License\$Builder;I)Lorg/elasticsearch/license/License;  
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;initialized+Ljava/util/concurrent/atomic/AtomicBoolean;defaultOperationMode

OperationModeInnerClasses1Lorg/elasticsearch/license/License\$OperationMode;currentOperationModelogger!Lor  
g/apache/logging/log4j/Logger;onChangeLjava/lang/Runnable;<init>~(Lorg/elasticsearch/watcher/ResourceWathe  
rService;Ljava/nio/file/Path;Lorg/apache/logging/log4j/Logger;Ljava/lang/Runnable;)VCodeLineNumberTableLoca  
lVariableTablethis4Lorg/elasticsearch/license/OperationModeFileWatcher;init()VeLjava/io/IOException;watcher'Lo  
rg/elasticsearch/watcher/FileWatcher;

StackMapTablegetCurrentOperationMode3()Lorg/elasticsearch/license/License\$OperationMode;

onFileInit(Ljava/nio/file/Path;)Vfile

onFileCreated

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operationModeLjava/lang/String;newOperationModeSlambda\$onChange\$1()Ljava/lang/Object;lambd\$onChange\$  
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./89:;:%org/elasticsearch/watcher/FileWatcher<Mjava/nio/file/LinkOption:Mjava/io/IOException.couldn't initialize  
watching license mode

fileBootstrapMethods]org/apache/lucene/util/BytesRef<"java/lang/IllegalArgumentExceptionD5org/apache/logging/  
log4j/message/ParameterizedMessageinvalid operation mode in [{}]<&couldn't read operation mode from

[{}]2org/elasticsearch/license/OperationModeFileWatcherjava/lang/Object-

org/elasticsearch/watcher/FileChangesListener/org/elasticsearch/license/License\$OperationModejava/nio/file/Pathja  
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compareAndSet(ZZ)ZaddListener(Ljava/lang/Object;)V:org/elasticsearch/watcher/ResourceWatcherService\$Freque  
ncy

FrequencyHIGH<Lorg/elasticsearch/watcher/ResourceWatcherService\$Frequency;0org/elasticsearch/watcher/Reso  
urceWatcherServiceadd(Lorg/elasticsearch/watcher/ResourceWatcher;Lorg/elasticsearch/watcher/ResourceWathe  
rService\$Frequency;)Lorg/elasticsearch/watcher/WatcherHandle;java/nio/file/Fileexists2(Ljava/nio/file/Path;[Lj  
va/nio/file/LinkOption;)]Zorg/apache/logging/log4j/Loggererror\*(Ljava/lang/String;Ljava/lang/Throwable;)Vequals(Lj  
va/lang/Object;)Z

isReadable(Ljava/nio/file/Path;)ZreadAllBytes(Ljava/nio/file/Path;)[B

)get^(Lorg/elasticsearch/license/OperationModeFileWatcher;Lorg/apache/logging/log4j/util/Supplier;@(Lorg/apac  
he/logging/log4j/util/Supplier;Ljava/lang/Throwable;)V([B)Vutf8ToString()Ljava/lang/String;resolveE(Ljava/lang/  
String;)Lorg/elasticsearch/license/License\$OperationMode;

)java/lang/RunnableruntoAbsolutePath()Ljava/nio/file/Path;(Ljava/lang/String;Ljava/lang/Object;)V!org/elasticsear  
ch/license/License^)]]"java/lang/invoke/LambdaMetafactorymetafactoryLookup(Ljava/lang/invoke/MethodHandles  
\$Lookup;Ljava/lang/String;Ljava/lang/invoke/MethodType;Ljava/lang/invoke/MethodType;Ljava/lang/invoke/Met  
hodHandle;Ljava/lang/invoke/MethodType;)Ljava/lang/invoke/CallSite;%java/lang/invoke/MethodHandles\$Looku  
pjava/lang/invoke/MethodHandles1)\*+,-./0126B7689;;

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earch/common/unit/TimeValue;Lorg/elasticsearch/common/unit/TimeValue;Lorg/elasticsearch/common/unit/Time  
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artTrialResponse\$Status;>;  
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.Operation failed: Trial was already activated.V!(Operation failed: Needs  
acknowledgement.java/lang/Enumclone()Ljava/lang/Object;0org/elasticsearch/license/PostStartTrialResponse5(Ljav  
a/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;(Ljava/lang/String;I)V!org/elasticsearch/rest/RestStatusOK  
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ion;)Z exception  
StackMapTablelicenseNeedsExtended&(Lorg/elasticsearch/license/License;)Zlicense#Lorg/elasticsearch/license/Lic  
ense;signatureNeedsUpdateU(Lorg/elasticsearch/license/License;Lorg/elasticsearch/cluster/node/DiscoveryNodes;)Z  
currentNodes/Lorg/elasticsearch/cluster/node/DiscoveryNodes;compatibleLicenseVersion2(Lorg/elasticsearch/clus  
ter/node/DiscoveryNodes;)I!lambda\$compatibleLicenseVersion\$01(Lorg/elasticsearch/cluster/node/DiscoveryNode  
;)Znode.Lorg/elasticsearch/cluster/node/DiscoveryNode;  
SourceFileLicenseUtils.java 0org/elasticsearch/ElasticsearchSecurityException)current license is non-compliant for  
[{} ]fghjava/lang/Objecti&org/elasticsearch/license/LicenseUtilises.license.expired.featurejava/lang/Stringjklmbasicn  
opqrstuvtrialwx!org/elasticsearch/license/License78yz{ }~BootstrapMethodsq;!org/elasticsearch/rest/RestStatus  
FORBIDDEN#Lorg/elasticsearch/rest/RestStatus;K(Ljava/lang/String;Lorg/elasticsearch/rest/RestStatus;[Ljava/lan  
g/Object;)VaddMetadata((Ljava/lang/String;[Ljava/lang/String;)VgetMetadata\$(Ljava/lang/String;)Ljava/util/List;ty  
pe()Ljava/lang/String;equals(Ljava/lang/Object;)Z  
expiryDate()J(org/elasticsearch/license/LicenseService.BASIC\_SELF\_GENERATED\_LICENSE\_EXPIRATION\_  
MILLISJversion()I-  
org/elasticsearch/cluster/node/DiscoveryNodesspliterator()Ljava/util/Spliterator;java/util/stream/StreamSupportstrea  
m3(Ljava/util/Spliterator;Z)Ljava/util/stream/Stream;

test

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(Ljava/util/function/Predicate;Ljava/util/stream/StreamallMatch!(Ljava/util/function/Predicate;)Z,org/elasticsearch/cl
uster/node/DiscoveryNode
getVersion()Lorg/elasticsearch/Version;org/elasticsearch/VersionV_6_4_0Lorg/elasticsearch/Version;
onOrAfter(Lorg/elasticsearch/Version;)Z9:"java/lang/invoke/LambdaMetafactorymetafactoryLookupInnerClasses(L
java/lang/invoke/MethodHandles$Lookup;Ljava/lang/String;Ljava/lang/invoke/MethodType;Ljava/lang/invoke/Met
hodType;Ljava/lang/invoke/MethodHandle;Ljava/lang/invoke/MethodType;)Ljava/lang/invoke/CallSite;%java/lang
/invoke/MethodHandles$Lookupjava/lang/invoke/MethodHandles! !/*"#$$% &'!a%YY*SL+ Y*S
+"##%()* +,!H**"&#-*. @ /0!R*
**#12.@ 34!z.*
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equest;validate=(Lorg/elasticsearch/action/ActionRequestValidationException;4(Z)Lorg/elasticsearch/license/PostS
tartBasicRequest;isAcknowledged()ZreadFrom3(Lorg/elasticsearch/common/io/stream/StreamInput;)Vin0Lorg/elast
icsearch/common/io/stream/StreamInput;
Exceptions/writeTo4(Lorg/elasticsearch/common/io/stream/StreamOutput;)Vout1Lorg/elasticsearch/common/io/stre
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getActions

StackMapTable

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localNode.Lorg/elasticsearch/cluster/node/DiscoveryNode;singleNodeDiscoisBoundToLoopback1(Lorg/elasticsearch/cluster/node/DiscoveryNode;)Zlambda$nextLicenseCheck$9((Lorg/elasticsearch/license/License;JJ)JstartTimelambda$onUpdate$8V(Lorg/elasticsearch/license/ExpirationCallback;Lorg/elasticsearch/license/License;JJ)Jlambda$clusterChanged$7<(Lorg/elasticsearch/cluster/ClusterState;)Ljava/lang/Object;lambda$triggered$6T(Lorg/elasticsearch/license/License;Lorg/elasticsearch/license/ExpirationCallback;)Vlambda$triggered$5o(Lorg/elasticsearch/xpack/core/scheduler/SchedulerEngine$Event;Lorg/elasticsearch/license/ExpirationCallback;)Zlambda$getAckMessages$4(Lorg/elasticsearch/license/License;Lorg/elasticsearch/license/License;Ljava/util/Map;Ljava/lang/String;Ljava/util/function/BiFunction;)VfeatureackMessagesLjava/util/function/BiFunction;messages[Ljava/lang/String;lambda$logExpirationWarning$3A(Ljava/lang/StringBuilder;Ljava/lang/String;[Ljava/lang/String;)Vmessagelambda

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ings/Settings;)Ljava/lang/String;
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If you have a new license, please update it. Otherwise, please reach out to
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e/PutLicenseResponseJKL6MNOPQ+basicR="java/lang/IllegalArgumentException*Registering basic licenses is
not allowed.STUDVLWXpq]YXZL(org/elasticsearch/license/LicenseServiceThis license update requires
acknowledgement. To acknowledge the license, please read the following messages and update the license again,
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parameter:6[]^_java/lang/Boolean`Xabcdejava/lang/IllegalStateExceptionCannot install a [fh,i:] license unless TLS
is configured or security is disabledj+klmnon&] license unless FIPS mode is disabledregister license
[p+]*org/elasticsearch/license/LicenseService$46qrsjava/util/HashMap+uvjava/lang/StringuThe new license is
older than the currently installed license. Are you sure you want to override the current license?wxyPz{3}@rs~+
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license to cluster as the following nodes might not understand the license metadata:
{ }&org/apache/logging/log4j/util/Supplier^X
previous [{}]9current [{}]*skipped license notifications reason: [{}]pnDlicense [{}] - validlicense [{}] -
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expired^!org/elasticsearch/license/License:org/elasticsearch/xpack/core/scheduler/SchedulerEngine$JobJob6<X+Lli
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ch"(Ljava/util/function/BiConsumer;)Vorg/apache/logging/log4j/Loggerwarn(Ljava/lang/String;Ljava/lang/Object;)
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nse/LicenseService;Lorg/elasticsearch/cluster/ack/AckedRequest;Lorg/elasticsearch/action/ActionListener;Lorg/elas
ticsearch/license/License;)VsubmitStateUpdateTaskG(Ljava/lang/String;Lorg/elasticsearch/cluster/ClusterStateTask
Config;)V
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;ACKNOWLEDGMENT_MESSAGES
O4(Ljava/lang/String;Ljava/util/function/BiFunction;)Vv(Lorg/elasticsearch/license/License;Lorg/elasticsearch/lice
nse/License;Ljava/util/Map;)Ljava/util/function/BiConsumer;timeValueHours
getJobNamegetMostRecentTrialVersion()Lorg/elasticsearch/Version;
startsWithstream()Ljava/util/stream/Stream;
O1(Lorg/elasticsearch/license/ExpirationCallback;)Ztest^(Lorg/elasticsearch/xpack/core/scheduler/SchedulerEngine
$Event;)Ljava/util/function/Predicate;java/util/stream/Streamfilter9(Ljava/util/function/Predicate;)Ljava/util/stream/
Stream;
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ch/cluster/metadata/MetaData;LICENSE_TOMBSTONE+org/elasticsearch/cluster/metadata/MetaDatacustomCusto
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mevalue(Lorg/apache/logging/log4j/Logger;Ljava/lang/String;Ljava/time/Clock;Lorg/elasticsearch/license/PostStart
TrialRequest;Lorg/elasticsearch/action/ActionListener;)V(Lorg/apache/logging/log4j/Logger;Ljava/lang/String;Ljav
a/time/Clock;Lorg/elasticsearch/license/PostStartBasicRequest;Lorg/elasticsearch/action/ActionListener;)Vr(Lorg/el
asticsearch/common/settings/Settings;Ljava/time/Clock;Lorg/elasticsearch/cluster/service/ClusterService;)VaddList

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ener3(Lorg/elasticsearch/cluster/ClusterStateListener;)Vjava/util/Collections
emptyList()Ljava/util/List;start(Ljava/util/Collection;)VdebuglifecycleStateState6()Lorg/elasticsearch/common/com
ponent/Lifecycle$State;2org/elasticsearch/common/component/Lifecycle$StateSTARTED4Lorg/elasticsearch/com
mon/component/Lifecycle$State;blocks1()Lorg/elasticsearch/cluster/block/ClusterBlocks;(org/elasticsearch/gateway
/GatewayServiceSTATE_NOT_RECOVERED_BLOCK.Lorg/elasticsearch/cluster/block/ClusterBlock;-
org/elasticsearch/cluster/block/ClusterBlockshasGlobalBlock1(Lorg/elasticsearch/cluster/block/ClusterBlock;)Znod
es1()Lorg/elasticsearch/cluster/node/DiscoveryNodes;-org/elasticsearch/cluster/node/DiscoveryNodes
getMasterNodeisReadyForXPackCustomMetadata+(Lorg/elasticsearch/cluster/ClusterState;)ZgetNodeisLocalNode
ElectedMaster&org/elasticsearch/license/LicenseUtilslicenseNeedsExtendedremoveListenerstopset
previousState()Ljava/lang/Object;
OR(Lorg/elasticsearch/cluster/ClusterState;)Lorg/apache/logging/log4j/util/Supplier;>(Ljava/lang/String:[Lorg/apac
he/logging/log4j/util/Supplier;)VgetMetaDaisDebugEnabledsignatureNeedsUpdateU(Lorg/elasticsearch/license/Li
cense;Lorg/elasticsearch/cluster/node/DiscoveryNodes;)ZMISSINGupdateP(Lorg/elasticsearch/license/License$Ope
rationMode;ZLorg/elasticsearch/Version;)V
getMillissetOperationModeFileWatcher7(Lorg/elasticsearch/license/OperationModeFileWatcher;)VV(Ljava/lang/St
ring;Lorg/elasticsearch/xpack/core/scheduler/SchedulerEngine$Schedule;)V?(Lorg/elasticsearch/xpack/core/schedul
er/SchedulerEngine$Job;)Viterator()Ljava/util/Iterator;hasNextnextgetId(J)J
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Y_TYPE_SETTING,org/elasticsearch/cluster/node/DiscoveryNode
getAddress7()Lorg/elasticsearch/common/transport/TransportAddress;3org/elasticsearch/common/transport/Transpo
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dressisLoopbackAddressnextScheduledTimeForExpiry(J)J#nodesNotReadyForXPackCustomMetadata:(Lorg/elast
icsearch/cluster/ClusterState;)Ljava/util/List;on&(Lorg/elasticsearch/license/License;)Vjava/util/function/BiFunctio
napplyvalidSelfGeneratedType#org/apache/logging/log4j/LogManager
getLogger4(Ljava/lang/Class;)Lorg/apache/logging/log4j/Logger;&(Ljava/lang/Object;)Ljava/lang/Object;
O()Ljava/util/function/Function;
O
NodeScope4Lorg/elasticsearch/common/settings/Setting$Property;(Ljava/lang/String;Ljava/util/function/Function;L
java/util/function/Function;[Lorg/elasticsearch/common/settings/Setting$Property;)Vjava/util/ArraysasList%([Ljava
/lang/Object;)Ljava/util/List;2org/elasticsearch/protocol/xpack/XPackInfoResponse
forPatternA(Ljava/lang/String;)Lorg/elasticsearch/common/time/DateFormatter;!L2org/elasticsearch/cluster/metadat
a/MetaData$Custom,org/elasticsearch/common/component/Lifecycle"java/lang/invoke/LambdaMetafactorymetafact
ory#Lookup(Ljava/lang/invoke/MethodHandles$Lookup;Ljava/lang/String;Ljava/lang/invoke/MethodType;Ljava/la
ng/invoke/MethodType;Ljava/lang/invoke/MethodHandle;Ljava/lang/invoke/MethodType;)Ljava/lang/invoke/CallS
ite;$%java/lang/invoke/MethodHandles$Lookupjava/lang/invoke/MethodHandles!O

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rF2*UG2C<HIJ Aq,qq""KL8_*-Y*.../0W*1Y*..2450W*6Y*.2470W9 A^:_;<MN8+8N*97-:-;
-<=>Y?@U-ABC,DYEF7G-H,=YI?@+J6*K:+-L:M,=YNPQ@R* STU-* VJW* STU7* *
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@: BVQB!Q:OPX:OYJ0^\_  
`a83 hv9: `.be8R\*wM,K,xN+yzC\*-,{|.+y~"\*+-9\*  
!&"2#A\$L%Q(:\*CfQR;<RghMijJ&\*kl8h\*  
Y\*+,k9  
.D: ;<RmTUXTnopq8e\*  
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41

!  
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```
getRestStatus%()Lorg/elasticsearch/rest/RestStatus;
access$000^(Lorg/elasticsearch/license/PostStartBasicResponse$Status;)Lorg/elasticsearch/rest/RestStatus;x0<clinit
>()VKLjava/lang/Enum<Lorg/elasticsearch/license/PostStartBasicResponse$Status;>;
SourceFilePostStartBasicResponse.java
!###RST7org/elasticsearch/license/PostStartBasicResponse$Status(U,VWX!,-+Operation failed: Current license is
basic.Y!(Operation failed: Needs
acknowledgement.java/lang/Enumclone()Ljava/lang/Object;0org/elasticsearch/license/PostStartBasicResponse5(Lja
va/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;(Ljava/lang/String;I)V!org/elasticsearch/rest/RestStatusOK
FORBIDDEN@1@@@ !"# $%&"
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earch/client/ElasticsearchClient;action0Lorg/elasticsearch/license/GetBasicStatusAction;
SignatureLorg/elasticsearch/action/ActionRequestBuilder<Lorg/elasticsearch/license/GetBasicStatusRequest;Lorg/e
lasticsearch/license/GetBasicStatusResponse;Lorg/elasticsearch/license/GetBasicStatusRequestBuilder;>;
SourceFile!GetBasicStatusRequestBuilder.java/org/elasticsearch/license/GetBasicStatusRequest6org/elasticsearch/li
cense/GetBasicStatusRequestBuilder-
org/elasticsearch/action/ActionRequestBuilder()Vz(Lorg/elasticsearch/client/ElasticsearchClient;Lorg/elasticsearch/
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t>()VCodeLineNumberTableLocalVariableTablethis%Lorg/elasticsearch/license/DateUtils;endOfDay(Ljava/lan
g/String;)JdateLorg/joda/time/MutableDateTime;ex$Ljava/lang/IllegalArgumentException;dateLjava/lang/Stri
ng;
StackMapTablebeginningOfDay<clinit>
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```

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ddZ[]^_`a#bcb#org/elasticsearch/license/DateUtilsjava/lang/Object&org/joda/time/format/DateTimeFormatter
parseDateTime,(Ljava/lang/String;)Lorg/joda/time/DateTime;org/joda/time/DateTime
getMillis()J+org/elasticsearch/common/time/DateFormatterparseMillis(J)VmillisOfDayPropertyInnerClasses*(Lor
g/joda/time/MutableDateTime$Property;&org/joda/time/MutableDateTime$PropertygetMaximumValue()Iset"(I)Lo
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forPatternA(Ljava/lang/String;)Lorg/elasticsearch/common/time/DateFormatter;java/time/ZoneOffsetUTCLjava/tim
e/ZoneOffset;withZoneA(Ljava/time/ZoneId;)Lorg/elasticsearch/common/time/DateFormatter;&org/joda/time/form
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g/elasticsearch/license/ExpirationCallback8org/elasticsearch/license/ExpirationCallback$OrientationOrientationvalu
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nt/ElasticsearchClient;)Lorg/elasticsearch/license/GetBasicStatusRequestBuilder;client.Lorg/elasticsearch/client/Ela
sticsearchClient;newResponse4()Lorg/elasticsearch/license/GetBasicStatusResponse;_(Lorg/elasticsearch/client/Ela
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nse/GetBasicStatusResponse;Lorg/elasticsearch/license/GetBasicStatusRequestBuilder;>;
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mno<init>((Lorg/elasticsearch/common/settings/Settings;Lorg/elasticsearch/transport/TransportService;Lorg/elasticsearch/cluster/service/ClusterService;Lorg/elasticsearch/threadpool/ThreadPool;Lorg/elasticsearch/action/support/ActionFilters;Lorg/elasticsearch/cluster/metadata/IndexNameExpressionResolver;)VCodeLineNumberTableLocalVariableTablethis9Lorg/elasticsearch/license/TransportGetTrialStatusAction;settings,Lorg/elasticsearch/common/settings/Settings;transportService.Lorg/elasticsearch/transport/TransportService;clusterService2Lorg/elasticsearch/cluster/service/ClusterService;
```

```
threadPool)Lorg/elasticsearch/threadpool/ThreadPool;
```

```
actionFilters0Lorg/elasticsearch/action/support/ActionFilters;indexNameExpressionResolver@Lorg/elasticsearch/cluster/metadata/IndexNameExpressionResolver;RuntimeVisibleAnnotations(Lorg/elasticsearch/common/inject/Inject;executor()Ljava/lang/String;newResponse4())Lorg/elasticsearch/license/GetTrialStatusResponse;masterOperation(Lorg/elasticsearch/license/GetTrialStatusRequest;Lorg/elasticsearch/cluster/ClusterState;Lorg/elasticsearch/action/ActionListener;)Vrequest1Lorg/elasticsearch/license/GetTrialStatusRequest;state(Lorg/elasticsearch/cluster/ClusterState;listener)Lorg/elasticsearch/action/ActionListener;licensesMetaData,Lorg/elasticsearch/license/LicensesMetaData;LocalVariableTypeTable]Lorg/elasticsearch/action/ActionListener<Lorg/elasticsearch/license/GetTrialStatusResponse;>;
```

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StackMapTablepq
```

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Exceptionsr
```

```
Signature(Lorg/elasticsearch/license/GetTrialStatusRequest;Lorg/elasticsearch/cluster/ClusterState;Lorg/elasticsearch/action/ActionListener<Lorg/elasticsearch/license/GetTrialStatusResponse;>;)V
```

```
checkBlock(Lorg/elasticsearch/license/GetTrialStatusRequest;Lorg/elasticsearch/cluster/ClusterState;)Lorg/elasticsearch/cluster/block/ClusterBlockException;(Lorg/elasticsearch/action/support/master/MasterNodeRequest;Lorg/elasticsearch/cluster/ClusterState;)Lorg/elasticsearch/cluster/block/ClusterBlockException;(Lorg/elasticsearch/action/support/master/MasterNodeRequest;Lorg/elasticsearch/cluster/ClusterState;Lorg/elasticsearch/action/ActionListener;)V+()Lorg/elasticsearch/action/ActionResponse;Lorg/elasticsearch/action/support/master/TransportMasterNodeReadAction<Lorg/elasticsearch/license/GetTrialStatusRequest;Lorg/elasticsearch/license/GetTrialStatusResponse;>;
```

```
SourceFile"TransportGetTrialStatusAction.java.org/elasticsearch/license/GetTrialStatusAction(cluster:admin/xpack/license/trial_statusBootstrapMethodsstuvwxyz-
```

```
org/elasticsearch/threadpool/ThreadPool$NamesNamesInnerClasssame0org/elasticsearch/license/GetTrialStatusResponse{})*org/elasticsearch/license/LicensesMetaDatalicense~/org/elasticsearch/license/GetTrialStatusRequestEF23017org/elasticsearch/license/TransportGetTrialStatusActionEorg/elasticsearch/action/support/master/TransportMa
```

```

sterNodeReadAction&org/elasticsearch/cluster/ClusterState'org/elasticsearch/action/ActionListenerjava/lang/Except
ion
()Ljava/lang/Object;
\3()Lorg/elasticsearch/license/GetTrialStatusRequest;get()Ljava/util/function/Supplier;W(Lorg/elasticsearch/commo
n/settings/Settings;Ljava/lang/String;Lorg/elasticsearch/transport/TransportService;Lorg/elasticsearch/cluster/servic
e/ClusterService;Lorg/elasticsearch/threadpool/ThreadPool;Lorg/elasticsearch/action/support/ActionFilters;Lorg/ela
sticsearch/cluster/metadata/IndexNameExpressionResolver;Ljava/util/function/Supplier;)V'org/elasticsearch/threadp
ool/ThreadPool()VmetaData()/Lorg/elasticsearch/cluster/metadata/MetaData;+org/elasticsearch/cluster/metadata/Me
taDatacustomCustomH(Ljava/lang/String;)Lorg/elasticsearch/cluster/metadata/MetaData$Custom;isEligibleForTrial
()Z(Z)V
onResponse(Ljava/lang/Object;)Vblocks1()Lorg/elasticsearch/cluster/block/ClusterBlocks;lorg/elasticsearch/cluster
/block/ClusterBlockLevel
METADATA_READ3Lorg/elasticsearch/cluster/block/ClusterBlockLevel;-
org/elasticsearch/cluster/block/ClusterBlocksglobalBlockedExceptionl(Lorg/elasticsearch/cluster/block/ClusterBloc
kLevel;)Lorg/elasticsearch/cluster/block/ClusterBlockException;2org/elasticsearch/cluster/metadata/MetaData$Cust
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g/String;Ljava/lang/invoke/MethodType;Ljava/lang/invoke/MethodType;Ljava/lang/invoke/MethodHandle;Ljava/la
ng/invoke/MethodType;)Ljava/lang/invoke/CallSite;%java/lang/invoke/MethodHandles$Lookupjava/lang/invoke/M
ethodHandles! *+,-
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+ ./INSTANCE0Lorg/elasticsearch/license/PostStartBasicAction;NAMELjava/lang/String;
ConstantValue<init>()VCodeLineNumberTableLocalVariableTablethisnewRequestBuilderh(Lorg/elasticsearch/clie
nt/ElasticsearchClient;)Lorg/elasticsearch/license/PostStartBasicRequestBuilder;client.Lorg/elasticsearch/client/Elas
ticsearchClient;newResponse4()Lorg/elasticsearch/license/PostStartBasicResponse;_(Lorg/elasticsearch/client/Elasti
csearchClient;)Lorg/elasticsearch/action/ActionRequestBuilder;+()Lorg/elasticsearch/action/ActionResponse;<clinit
>
SignatureLorg/elasticsearch/action/Action<Lorg/elasticsearch/license/PostStartBasicRequest;Lorg/elasticsearch/lice
nse/PostStartBasicResponse;Lorg/elasticsearch/license/PostStartBasicRequestBuilder;>;
SourceFilePostStartBasicAction.java.org/elasticsearch/license/PostStartBasicAction'cluster:admin/xpack/license/star
t_basic06org/elasticsearch/license/PostStartBasicRequestBuilder10org/elasticsearch/license/PostStartBasicResponse
org/elasticsearch/action/Action(Ljava/lang/String;)Va(Lorg/elasticsearch/client/ElasticsearchClient;Lorg/elasticsear
ch/license/PostStartBasicAction;)V!
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controllerLorg/elasticsearch/rest/RestController;getName()Ljava/lang/String;doPrepareRequestRestChannelConsumer(Lorg/elasticsearch/rest/RestRequest;Lorg/elasticsearch/xpack/core/XPackClient;)Lorg/elasticsearch/rest/BaseRestHandler\$RestChannelConsumer;request\$Lorg/elasticsearch/rest/RestRequest;client\*Lorg/elasticsearch/xpack/core/XPackClient;overrideParamsLjava/util/Map;paramsParams5Lorg/elasticsearch/common/xcontent/ToXContent\$Params;getLicenseRequest<Lorg/elasticsearch/protocol/xpack/license/GetLicenseRequest;LocalVariableTypeTable5Ljava/util/Map<Ljava/lang/String;Ljava/lang/String;>;

Exceptionslambda\$doPrepareRequest\$0(Lorg/elasticsearch/xpack/core/XPackClient;Lorg/elasticsearch/protocol/xpack/license/GetLicenseRequest;Lorg/elasticsearch/rest/RestRequest;Lorg/elasticsearch/common/xcontent/ToXContent\$Params;Lorg/elasticsearch/rest/RestChannel;)Vchannel\$Lorg/elasticsearch/rest/RestChannel;<clinit>()V

SourceFileRestGetLicenseAction.java3java/lang/StringBuilder3Z/license? /\_license

/\_licensesB[GET /\_licenses] is deprecated! Use [GET /\_xpack/license]

instead.12xpack\_get\_license\_actionjava/util/HashMap3!org/elasticsearch/license/License

rest\_viewtrulicense\_version@org/elasticsearch/common/xcontent/ToXContent\$DelegatingMapParamsDelegatingMapParams3:org/elasticsearch/protocol/xpack/license/GetLicenseRequestlocal } BootstrapMethods0org/elasticsearch/license/RestGetLicenseAction\$13.org/elasticsearch/license/RestGetLicenseAction/02org/elasticsearch/common/logging/DeprecationLogger32org/elasticsearch/xpack/core/rest/XPackRestHandler:org/elasticsearch/rest/BaseRestHandler\$RestChannelConsumer3org/elasticsearch/common/xcontent/ToXContent\$Paramsjava/io/IOExceptionjava/lang/Exception/(Lorg/elasticsearch/common/settings/Settings;)V)org/elasticsearch/rest/RestRequest\$MethodMethodGET+Lorg/elasticsearch/rest/RestRequest\$Method;URI\_BASELjava/lang/String;append-

(Ljava/lang/String;)Ljava/lang/StringBuilder;toString%org/elasticsearch/rest/RestControllerregisterHandlerd(Lorg/elasticsearch/rest/RestRequest\$Method;Ljava/lang/String;Lorg/elasticsearch/rest/RestHandler;)VregisterAsDeprecatedHandler(Lorg/elasticsearch/rest/RestRequest\$Method;Ljava/lang/String;Lorg/elasticsearch/rest/RestHandler;Ljava/lang/String;Lorg/elasticsearch/common/logging/DeprecationLogger;)V(I)V

```

java/util/Mapput8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;java/lang/StringvalueOf(I)Ljava/lang/Str
ing;;org/elasticsearch/common/xcontent/ToXContentG(Ljava/util/Map;Lorg/elasticsearch/common/xcontent/ToXC
ontent$Params;)V()Z"org/elasticsearch/rest/RestRequestparamAsBoolean(Ljava/lang/String;Z)ZB(Z)Lorg/elasticsear
ch/action/support/master/MasterNodeReadRequest;
(Ljava/lang/Object;)V
('Lorg/elasticsearch/rest/RestChannel;)Vaccept-
(Lorg/elasticsearch/license/RestGetLicenseAction;Lorg/elasticsearch/xpack/core/XPackClient;Lorg/elasticsearch/pr
otocol/xpack/license/GetLicenseRequest;Lorg/elasticsearch/rest/RestRequest;Lorg/elasticsearch/common/xcontent/
ToXContent$Params;)Lorg/elasticsearch/rest/BaseRestHandler$RestChannelConsumer;(org/elasticsearch/xpack/cor
e/XPackClient#())Lorg/elasticsearch/client/Client;org/elasticsearch/client/Clientadmin()Lorg/elasticsearch/client/
AdminClient;$org/elasticsearch/client/AdminClientcluster()Lorg/elasticsearch/client/ClusterAdminClient;*org/elast
icsearch/license/GetLicenseActionINSTANCE,Lorg/elasticsearch/license/GetLicenseAction;(Lorg/elasticsearch/lic
ense/RestGetLicenseAction;Lorg/elasticsearch/rest/RestChannel;Lorg/elasticsearch/rest/RestRequest;Lorg/elasticsea
rch/common/xcontent/ToXContent$Params;)V+org/elasticsearch/client/ClusterAdminClientexecute(Lorg/elasticsea
rch/action/Action;Lorg/elasticsearch/action/ActionRequest;Lorg/elasticsearch/action/ActionListener;)V#org/apache/
logging/log4j/LogManager
getLogger4(Ljava/lang/Class;)Lorg/apache/logging/log4j/Logger;$(Lorg/apache/logging/log4j/Logger;)V&org/elast
icsearch/rest/BaseRestHandlerTU"java/lang/invoke/LambdaMetafactorymetafactoryLookup(Ljava/lang/invoke/Met
hodHandles$Lookup;Ljava/lang/String;Ljava/lang/invoke/MethodType;Ljava/lang/invoke/MethodType;Ljava/lang/i
nvoke/MethodHandle;Ljava/lang/invoke/MethodType;)Ljava/lang/invoke/CallSite;%java/lang/invoke/MethodHandl
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6$%"&,-7 <89<;<<=>?5-61789@C5SYN-W-WY-+:Y:+W*,+ 6< =>!?,@5AFB7>S89SDESFG JHI,'JM5NOP
JHQRSTU5 %+!"#$,%Y*-&'6B7>%89%FG%NO%DE%JM%VWRXYZ52()*+Y*,
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licenseStateChanged()V
SourceFileLicenseStateListener.javaRuntimeVisibleAnnotationsLjava/lang/FunctionalInterface;;org/elasticsearch/lic
ense/LicenseStateListenerjava/lang/Object
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$logger!Lorg/apache/logging/log4j/Logger;deprecationLogger4Lorg/elasticsearch/common/logging/DeprecationLog
ger;<init>V(Lorg/elasticsearch/common/settings/Settings;Lorg/elasticsearch/rest/RestController;)VCodeLineNumbe

```

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rTableLocalVariableTablethis3Lorg/elasticsearch/license/RestDeleteLicenseAction;settings,Lorg/elasticsearch/com
mon/settings/Settings;
controllerLorg/elasticsearch/rest/RestController;getName()Ljava/lang/String;doPrepareRequestRestChannelConsu
merInnerClasses(Lorg/elasticsearch/rest/RestRequest;Lorg/elasticsearch/xpack/core/XPackClient;)Lorg/elasticsear
h/rest/BaseRestHandler$RestChannelConsumer;request$Lorg/elasticsearch/rest/RestRequest;client*Lorg/elasticsear
ch/xpack/core/XPackClient;deleteLicenseRequest?Lorg/elasticsearch/protocol/xpack/license/DeleteLicenseRequest;
Exceptionslambda$doPrepareRequest$0(Lorg/elasticsearch/xpack/core/XPackClient;Lorg/elasticsearch/protocol/xp
ack/license/DeleteLicenseRequest;Lorg/elasticsearch/rest/RestChannel;)Vchannel$Lorg/elasticsearch/rest/RestChan
nel;<clinit>()V
SourceFileRestDeleteLicenseAction.java+java/lang/StringBuilder+K/license7 / _license
/_licensesH[DELETE /_licenses] is deprecated! Use [DELETE /_xpack/license]
instead.)*xpack_delete_license_action=org/elasticsearch/protocol/xpack/license/DeleteLicenseRequesttimeout`mas
ter_timeoutBootstrapMethods4org/elasticsearch/rest/action/RestToXContentListener+1org/elasticsearch/license/Res
tDeleteLicenseAction'(2org/elasticsearch/common/logging/DeprecationLogger+2org/elasticsearch/xpack/core/rest/X
PackRestHandler:org/elasticsearch/rest/BaseRestHandler$RestChannelConsumerjava/io/IOExceptionjava/lang/Exce
ption/(Lorg/elasticsearch/common/settings/Settings;)V)org/elasticsearch/rest/RestRequest$MethodMethodDELETE
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(Ljava/lang/String;)Ljava/lang/StringBuilder;toString%org/elasticsearch/rest/RestControllerregisterHandlerd(Lorg/e
lasticsearch/rest/RestRequest$Method;Ljava/lang/String;Lorg/elasticsearch/rest/RestHandler;)VregisterAsDeprecate
dHandler(Lorg/elasticsearch/rest/RestRequest$Method;Ljava/lang/String;Lorg/elasticsearch/rest/RestHandler;Ljava/
lang/String;Lorg/elasticsearch/common/logging/DeprecationLogger;)V+()Lorg/elasticsearch/common/unit/TimeVal
ue;"org/elasticsearch/rest/RestRequestparamAsTimef(Ljava/lang/String;Lorg/elasticsearch/common/unit/TimeValue
;)Lorg/elasticsearch/common/unit/TimeValue;f(Lorg/elasticsearch/common/unit/TimeValue;)Lorg/elasticsearch/acti
on/support/master/MasterNodeRequest;masterNodeTimeout
(Ljava/lang/Object;)V
!(Lorg/elasticsearch/rest/RestChannel;)Vaccept(Lorg/elasticsearch/xpack/core/XPackClient;Lorg/elasticsearch/prot
ocol/xpack/license/DeleteLicenseRequest;)Lorg/elasticsearch/rest/BaseRestHandler$RestChannelConsumer;(org/ela
sticsearch/xpack/core/XPackClient#)(Lorg/elasticsearch/client/Client;org/elasticsearch/client/Clientadmin()Lorg/
elasticsearch/client/AdminClient;$org/elasticsearch/client/AdminClientcluster()Lorg/elasticsearch/client/ClusterAd
minClient;-
org/elasticsearch/license/DeleteLicenseActionINSTANCE/Lorg/elasticsearch/license/DeleteLicenseAction;+org/ela
sticsearch/client/ClusterAdminClientexecuteu(Lorg/elasticsearch/action/Action;Lorg/elasticsearch/action/ActionReq
uest;Lorg/elasticsearch/action/ActionListener;)V#org/apache/logging/log4j/LogManager
getLogger4(Ljava/lang/Class;)Lorg/apache/logging/log4j/Logger;$(Lorg/apache/logging/log4j/Logger;)V&org/elast
icsearch/rest/BaseRestHandlerEF"java/lang/invoke/LambdaMetafactorymetafactoryLookup(Ljava/lang/invoke/Meth
odHandles$Lookup;Ljava/lang/String;Ljava/lang/invoke/MethodType;Ljava/lang/invoke/MethodType;Ljava/lang/in
voke/MethodHandle;Ljava/lang/invoke/MethodType;)Ljava/lang/invoke/CallSite;%java/lang/invoke/MethodHandle
s$Lookupjava/lang/invoke/MethodHandles!!&'()*+,-<*>,Y* ,
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byteBufferLjava/nio/ByteBuffer;versionImagicLenmagichashLensignedContentLencontentBuilder3Lorg/elasticsear
ch/common/xcontent/XContentBuilder;rsaLjava/security/Signature;iterator)Lorg/apache/lucene/util/BytesRefIterato
r;ref!Lorg/apache/lucene/util/BytesRef;eLjava/lang/Exception;license#Lorg/elasticsearch/license/License;
publicKeyData
signedContentpublicKeyFingerprint
StackMapTable:&(Lorg/elasticsearch/license/License;)ZoutLjava/io/ByteArrayOutputStream;publicKeyBytesisLjav
a/io/InputStream;exLjava/io/IOException;
SourceFileLicenseVerifier.java01C6org/elasticsearch/common/xcontent/ToXContent$MapParams
MapParamsInnerClasses!org/elasticsearch/license/Licenselicense_spec_viewtrue0
SHA512withRSAG:>>java/io/IOException&java/security/NoSuchAlgorithmException
java/security/SignatureException!java/security/InvalidKeyExceptionjava/lang/IllegalStateException0)org/elasticsear
ch/license/LicenseVerifier/public.keyjava/io/ByteArrayOutputStream1java/lang/Throwable78java/lang/Objectjava/n
io/ByteBuffer1org/elasticsearch/common/xcontent/XContentBuilderjava/security/Signature'org/apache/lucene/util/B
ytesRefIteratororg/apache/lucene/util/BytesRefjava/lang/Exceptionjava/io/InputStreamjava/util/Base64
getDecoderDecoder()Ljava/util/Base64$Decoder;
signature()Ljava/lang/String;java/util/Base64$Decoderdecode(Ljava/lang/String;)[Bwrap([B)Ljava/nio/ByteBuffer;
getInt()Iget.org/elasticsearch/common/xcontent/XContentTypeJSON0Lorg/elasticsearch/common/xcontent/XConte
ntType;1org/elasticsearch/common/xcontent/XContentFactorye(Lorg/elasticsearch/common/xcontent/XContentTyp
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CollectionsingletonMap5(Ljava/lang/Object;Ljava/lang/Object;)Ljava/util/Map;(Ljava/util/Map;)V
toXContentParams(Lorg/elasticsearch/common/xcontent/XContentBuilder;Lorg/elasticsearch/common/xcontent/To
XContent$Params;)Lorg/elasticsearch/common/xcontent/XContentBuilder;getInstance-
(Ljava/lang/String;)Ljava/security/Signature;$org/elasticsearch/license/CryptUtils
```



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readPublicKey([B)Ljava/security/PublicKey;
initVerify(Ljava/security/PublicKey;)V-
org/elasticsearch/common/bytes/BytesReferencebytesd(Lorg/elasticsearch/common/xcontent/XContentBuilder;)Lor
g/elasticsearch/common/bytes/BytesReference;+()Lorg/apache/lucene/util/BytesRefIterator;next#()Lorg/apache/luce
ne/util/BytesRef;offsetlengthupdate([BII)Vverify([B)Zjava/util/Arraysfill([BB)V(Ljava/lang/Throwable;)Vjava/lang
/ClassgetResourceAsStream)(Ljava/lang/String;)Ljava/io/InputStream;*org/elasticsearch/core/internal/io/Streamsco
py.(Ljava/io/InputStream;Ljava/io/OutputStream;)JtoByteArray()[Bclose
addSuppressed3org/elasticsearch/common/xcontent/ToXContent$Params!$/012/*3 456 782MN*::66:W6 N-W6
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h/license/RemoteClusterLicenseChecker;<init>(Lorg/elasticsearch/license/RemoteClusterLicenseChecker;Lorg/elast

icsearch/action/ActionListener;Ljava/util/concurrent/atomic/AtomicReference;Ljava/util/Iterator;)VCodeLineNumb

erTableLocalVariableTablethisInnerClasses9Lorg/elasticsearch/license/RemoteClusterLicenseChecker\$1;

onResponse7(Lorg/elasticsearch/protocol/xpack/XPackInfoResponse;)VxPackInfoResponse4Lorg/elasticsearch/prot

ocol/xpack/XPackInfoResponse;licenseInfo~LicenseInfo@Lorg/elasticsearch/protocol/xpack/XPackInfoResponse\$

LicenseInfo;

StackMapTable

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onFailure(Ljava/lang/Exception;)V
Ljava/lang/Exception;messageLjava/lang/String;(Ljava/lang/Object;)V
Signature(Ljava/lang/Object;Lorg/elasticsearch/action/ActionListener<Lorg/elasticsearch/protocol/xpack/XPackInfoResponse>;)
SourceFile RemoteClusterLicenseChecker.java
EnclosingMethod(0)*+,-
+org/elasticsearch/ResourceNotFoundException
java/lang/StringBuilder%license info is missing for cluster
[java/lang/String]Ljava/lang/Object;1BCNorg/elasticsearch/license/RemoteClusterLicenseChecker$RemoteClusterLicenseInfo
RemoteClusterLicenseInfo19HH2could not determine the license type for cluster
[(org/elasticsearch/ElasticsearchException)2org/elasticsearch/protocol/xpack/XPackInfoResponse9:7org/elasticsearch/license/RemoteClusterLicenseChecker$1'org/elasticsearch/action/ActionListener>org/elasticsearch/protocol/xpack/XPackInfoResponse$LicenseInfo5org/elasticsearch/license/RemoteClusterLicenseCheckercheckRemoteClusterLicenses<(Ljava/util/List;Lorg/elasticsearch/action/ActionListener;)V()VgetLicenseInfoB()Lorg/elasticsearch/protocol/xpack/XPackInfoResponse$LicenseInfo;append(Ljava/lang/String;)Ljava/lang/StringBuilder;+java/util/concurrent/atomic/AtomicReferenceget()Ljava/lang/Object;toString()Ljava/lang/String;((Ljava/lang/String;[Ljava/lang/Object;)VgetStatus()Lorg/elasticsearch/protocol/xpack/license/LicenseStatus;6org/elasticsearch/protocol/xpack/license/LicenseStatusACTIVE8Lorg/elasticsearch/protocol/xpack/license/LicenseStatus;access$000W(Lorg/elasticsearch/license/RemoteClusterLicenseChecker;)Ljava/util/function/Predicate;getMode()org/elasticsearch/license/License$OperationModeOperationModeresolveE(Ljava/lang/String;)Lorg/elasticsearch/license/License$OperationMode;java/util/function/Predicatetest(Ljava/lang/Object;)ZU(Ljava/lang/String;Lorg/elasticsearch/protocol/xpack/XPackInfoResponse$LicenseInfo;)VBorg/elasticsearch/license/RemoteClusterLicenseChecker$LicenseCheckLicenseCheckfailure(Lorg/elasticsearch/license/RemoteClusterLicenseChecker$RemoteClusterLicenseInfo;)Lorg/elasticsearch/license/RemoteClusterLicenseChecker$LicenseCheck;java/util/IteratorhasNext()Znextsetaccess$100u(Lorg/elasticsearch/license/RemoteClusterLicenseChecker;Ljava/lang/String;Lorg/elasticsearch/action/ActionListener;)VsuccessF()Lorg/elasticsearch/license/RemoteClusterLicenseChecker$LicenseCheck;=(Ljava/lang/String;Ljava/lang/Throwable;[Ljava/lang/Object;)V!org/elasticsearch/license/License '()*+,-./0123N*+*,*-**4568/09:3J+M,9*YY*
*,*Y*
*,+**
**
* *!46
>?Ug5 68;<=@A?>
@3BC39Y "*"
M*#Y,+$4"85 9689DE"FGA9H33 *+,%&45 68IJKLMNO7*'%>%? Nlg@nN
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abclicenseService*Lorg/elasticsearch/license/LicenseService;<init>R(Lorg/elasticsearch/common/settings/Settings;Lorg/elasticsearch/transport/TransportService;Lorg/elasticsearch/cluster/service/ClusterService;Lorg/elasticsearch/license/LicenseService;Lorg/elasticsearch/threadpool/ThreadPool;Lorg/elasticsearch/action/support/ActionFilters;Lorg/elasticsearch/cluster/metadata/IndexNameExpressionResolver;)VCodeLineNumberTableLocalVariableTablethis9Lorg/elasticsearch/license/TransportPostStartBasicAction;settings,Lorg/elasticsearch/common/settings/Settings;tran

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sportService.Lorg/elasticsearch/transport/TransportService;clusterService2Lorg/elasticsearch/cluster/service/Cluster
Service;
threadPool)Lorg/elasticsearch/threadpool/ThreadPool;
actionFilters0Lorg/elasticsearch/action/support/ActionFilters;indexNameExpressionResolver@Lorg/elasticsearch/cl
uster/metadata/IndexNameExpressionResolver;RuntimeVisibleAnnotations(Lorg/elasticsearch/common/inject/Inject
;executor())Ljava/lang/String;newResponse4())Lorg/elasticsearch/license/PostStartBasicResponse;masterOperation(L
org/elasticsearch/license/PostStartBasicRequest;Lorg/elasticsearch/cluster/ClusterState;Lorg/elasticsearch/action/Ac
tionListener;)Vrequest1Lorg/elasticsearch/license/PostStartBasicRequest;state(Lorg/elasticsearch/cluster/ClusterStat
e;listener)Lorg/elasticsearch/action/ActionListener;LocalVariableTypeTable]Lorg/elasticsearch/action/ActionListen
er<Lorg/elasticsearch/license/PostStartBasicResponse;>;
Exceptionsd
Signature(Lorg/elasticsearch/license/PostStartBasicRequest;Lorg/elasticsearch/cluster/ClusterState;Lorg/elasticsear
ch/action/ActionListener<Lorg/elasticsearch/license/PostStartBasicResponse;>);V
checkBlock(Lorg/elasticsearch/license/PostStartBasicRequest;Lorg/elasticsearch/cluster/ClusterState;)Lorg/elasticse
arch/cluster/block/ClusterBlockException;(Lorg/elasticsearch/action/support/master/MasterNodeRequest;Lorg/elasti
csearch/cluster/ClusterState;)Lorg/elasticsearch/cluster/block/ClusterBlockException;(Lorg/elasticsearch/action/sup
port/master/MasterNodeRequest;Lorg/elasticsearch/cluster/ClusterState;Lorg/elasticsearch/action/ActionListener;)V
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UnboundID LDAP SDK for Java
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```
{
 "metadata": {
 "name": "X-Pack Monitoring: License Expiration",
 "xpack": {
 "link": "license",
 "expires_days": [60, 30, 14, 7],
 "severity": 0,
 "alert_index": ".monitoring-alerts-6",
 "cluster_uuid": "${monitoring.watch.cluster_uuid}",
 "type": "monitoring",
 "version_created": 6040099,
 "watch": "${monitoring.watch.id}"
 }
 },
 "trigger": {
 "schedule": {
 "interval": "1m"
 }
 },
 "input": {
 "chain": {
 "inputs": [
 {
 "check": {
 "search": {
 "request": {
 "indices": [
 ".monitoring-es-*"
],
 "body": {
 "size": 1,
 "sort": [
 {
 "timestamp": {
 "order": "desc"
 }
]
]
 },
 "_source": [
 "license.*"
],
 "query": {
 "bool": {
```

```

 "filter": [
 {
 "term": {
 "cluster_uuid": "{{ctx.metadata.xpack.cluster_uuid}}"
 }
 },
 {
 "term": {
 "type": "cluster_stats"
 }
 },
 {
 "range": {
 "timestamp": {
 "gte": "now-2m"
 }
 }
 }
]
 }
}
}
}
}
},
{
 "alert": {
 "search": {
 "request": {
 "indices": [
 ".monitoring-alerts-6"
],
 "body": {
 "size": 1,
 "terminate_after": 1,
 "query": {
 "bool": {
 "filter": {
 "term": {
 "_id": "{{ctx.watch_id}}"
 }
 }
 }
 },
 "sort": [
 { "timestamp": { "order": "desc" } }
]
 }
 }
 }
 }
}

```

```

 }
 }
}
},
{
 "kibana_settings": {
 "search": {
 "request": {
 "indices": [
 ".monitoring-kibana-6-*"
],
 "body": {
 "size": 1,
 "query": {
 "bool": {
 "filter": {
 "term": {
 "type": "kibana_settings"
 }
 }
 }
 },
 "sort": [
 {
 "timestamp": {
 "order": "desc"
 }
 }
]
 }
 }
 }
 }
}
},
"condition": {
 "script": {
 "source": "if (ctx.payload.check.hits.total == 0) {return false;}def license =
ctx.payload.check.hits.hits[0]._source.license;if (license == null) {return false;}ctx.vars.fails_check = false;Instant
expiry = Instant.ofEpochMilli(license.expiry_date_in_millis);ctx.vars.expiry = expiry;if (license.status != 'active')
{ctx.vars.expired = true;ctx.vars.fails_check = true;ctx.metadata.xpack.severity = 2001;} else {Instant now =
Instant.ofEpochMilli(new Date().getTime());ctx.vars.now = now;for (int i = ctx.metadata.xpack.expires_days.length
- 1;i > -1;--i) {if (license.type == 'trial' && i < 2) {break;}Instant fromNow =
now.plusSeconds(ctx.metadata.xpack.expires_days[i] * 24 * 60 * 60);if (fromNow.isAfter(expiry))
{ctx.vars.fails_check = true;ctx.metadata.xpack.severity = i * 1000;break;}} }ctx.vars.not_resolved =

```



```

(ctx.payload.alert.hits.total == 1 && ctx.payload.alert.hits.hits[0]._source.resolved_timestamp ==
null);ctx.vars.update = ctx.vars.fails_check || ctx.vars.not_resolved;"
 }
},
"transform": {
 "script": {
 "source": "ctx.vars.email_recipient = (ctx.payload.kibana_settings.hits.total > 0 &&
ctx.payload.kibana_settings.hits.hits[0]._source.kibana_settings.xpack != null) ?
ctx.payload.kibana_settings.hits.hits[0]._source.kibana_settings.xpack.default_admin_email : null;ctx.vars.is_new =
ctx.vars.fails_check && !ctx.vars.not_resolved;ctx.vars.is_resolved = !ctx.vars.fails_check &&
ctx.vars.not_resolved;def alertMessage = null;if (ctx.vars.fails_check) { alertMessage = 'Update your license.';} if
(ctx.vars.not_resolved) { ctx.payload = ctx.payload.alert.hits.hits[0]._source;ctx.payload.metadata =
ctx.metadata.xpack;if (ctx.vars.fails_check == false) { ctx.payload.resolved_timestamp = ctx.execution_time;} }
else { ctx.payload = ['timestamp': ctx.execution_time, 'prefix': 'This cluster\\\'s license is going to expire in
{ {#relativeTime} }metadata.time{ {/relativeTime} } at { {#absoluteTime} }metadata.time{ {/absoluteTime} }.',
'message': alertMessage, 'metadata': ctx.metadata.xpack];} if (ctx.vars.fails_check) { ctx.payload.metadata.time =
ctx.vars.expiry.toString();} ctx.payload.update_timestamp = ctx.execution_time;return ctx.payload;"
 }
},
"actions": {
 "add_to_alerts_index": {
 "index": {
 "index": ".monitoring-alerts-6",
 "doc_type": "doc",
 "doc_id": "${monitoring.watch.unique_id}"
 }
 },
 "send_email_to_admin": {
 "condition": {
 "script": "return ctx.vars.email_recipient != null && (ctx.vars.is_new || ctx.vars.is_resolved)"
 },
 "email": {
 "to": "X-Pack Admin <{{ctx.vars.email_recipient}}>",
 "from": "X-Pack Admin <{{ctx.vars.email_recipient}}>",
 "subject":
"{{{#ctx.vars.is_new}}NEW{{/ctx.vars.is_new}}{ {#ctx.vars.is_resolved} }RESOLVED{ {/ctx.vars.is_resolved} }
{ {ctx.metadata.name} }",
 "body": {
 "text": "{ {#ctx.vars.is_resolved} }This cluster alert has been resolved: { {/ctx.vars.is_resolved} } This cluster's
license { {#ctx.vars.is_new} }is going to expire on
{ {ctx.payload.metadata.time} }{ {/ctx.vars.is_new} }{ {#ctx.vars.is_resolved} }was going to
expire{ {ctx.payload.metadata.time} }{ {/ctx.vars.is_resolved} }.
{ {#ctx.vars.is_new} }{ {ctx.payload.message} }{ {/ctx.vars.is_new} }"
 }
 }
 }
}
}

```

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```
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```
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=====  
cryptacular NOTICE  
=====

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="utf-8">
 <link rel="dns-prefetch" href="https://assets-cdn.github.com">
 <link rel="dns-prefetch" href="https://avatars0.githubusercontent.com">
 <link rel="dns-prefetch" href="https://avatars1.githubusercontent.com">
 <link rel="dns-prefetch" href="https://avatars2.githubusercontent.com">
 <link rel="dns-prefetch" href="https://avatars3.githubusercontent.com">
 <link rel="dns-prefetch" href="https://github-cloud.s3.amazonaws.com">
 <link rel="dns-prefetch" href="https://user-images.githubusercontent.com/">

 <link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/frameworks-
2d2d4c150f7000385741c6b992b302689ecd172246c6428904e0813be9bceca6.css" media="all" rel="stylesheet" />
 <link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/github-
0522ae8d3b3bdc841d2f91f90efd5f1fd9040d910905674cd134ced43a6dfea6.css" media="all" rel="stylesheet" />

 <link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/site-
cfab053e93f0e27f4c63d4ff6b7957bd25f711667fe678e747f8a4d88c47b38d.css" media="all" rel="stylesheet" />
```

```
<meta name="viewport" content="width=device-width">

<title>cryptacular/NOTICE at master · vt-middleware/cryptacular · GitHub</title>
<link rel="search" type="application/opensearchdescription+xml" href="/opensearch.xml" title="GitHub">
<link rel="fluid-icon" href="https://github.com/fluidicon.png" title="GitHub">
<meta property="fb:app_id" content="1401488693436528">

 <meta content="https://avatars7.githubusercontent.com/u/6122907?v=4&s=400" property="og:image" /><meta
content="GitHub" property="og:site_name" /><meta content="object" property="og:type" /><meta content="vt-
middleware/cryptacular" property="og:title" /><meta content="https://github.com/vt-middleware/cryptacular"
property="og:url" /><meta content="cryptacular - The friendly complement to the BouncyCastle crypto API for
Java." property="og:description" />

<link rel="assets" href="https://assets-cdn.github.com/">

<meta name="pjax-timeout" content="1000">

<meta name="request-id" content="E0E4:26F16:12A5AE6:1D11801:596C7978" data-pjax-transient>

<meta name="selected-link" value="repo_source" data-pjax-transient>

<meta name="google-site-verification" content="KT5gs8h0wvaagLKA V W q 8 b b e N w n Z Z K 1 r 1 X Q y s X 3 x u r L U ">
<meta name="google-site-verification" content="ZzhV y E F w b 7 w 3 e 0 - u O T l t m 8 J s c k 2 F 5 S t V i h D 0 e x w 2 f s A ">
 <meta name="google-analytics" content="UA-3769691-2">

<meta content="collector.githubapp.com" name="octolytics-host" /><meta content="github" name="octolytics-app-
id" /><meta content="https://collector.githubapp.com/github-external/browser_event" name="octolytics-event-url"
/><meta content="E0E4:26F16:12A5AE6:1D11801:596C7978" name="octolytics-dimension-request_id" /><meta
content="sea" name="octolytics-dimension-region_edge" /><meta content="iad" name="octolytics-dimension-
region_render" />
<meta content="/<user-name>/<repo-name>/blob/show" data-pjax-transient="true" name="analytics-location" />

<meta class="js-ga-set" name="dimension1" content="Logged Out">

 <meta name="hostname" content="github.com">
<meta name="user-login" content="">

 <meta name="expected-hostname" content="github.com">
<meta name="js-proxy-site-detection-payload"
content="N2ZhMjk0NTA4MjI1NmZhYTVINz M 5 Nz V j Z m F k O W Y 2 N G F k N m M x Y z c y M G V i N z A z Z G Q x M G M z Z
```



```

<div class="position-relative js-header-wrapper">
 Skip to content
 <div id="js-pjax-loader-bar" class="pjax-loader-bar"><div class="progress"></div></div>

 <header class="site-header js-details-container Details" role="banner">
<div class="site-nav-container">
 <a class="header-logo-invertocat" href="https://github.com/" aria-label="Homepage" data-ga-click="(Logged out)
Header, go to homepage, icon:logo-wordmark">
 <svg aria-hidden="true" class="octicon octicon-mark-github" height="32" version="1.1" viewBox="0 0 16 16"
width="32"><path fill-rule="evenodd" d="M8 0C3.58 0 0 3.58 0 8c0 3.54 2.29 6.53 5.47 7.59 4.07 5.55-.17 5.55-.38 0-
.19-.01-.82-.01-1.49-2.01 3.7-2.53-.49-2.69-.94-.09-.23-.48-.94-.82-1.13-.28-.15-.68-.52-.01-.53 6.3-.01 1.08 5.8
1.23 8.2 7.2 1.21 1.87 8.7 2.33 6.6 0 7.52 2.8-.87 5.1-1.07-1.78-.2-3.64-.89-3.64-3.95 0-.87 3.1-1.59 8.2-2.15-.08-.2-.36-
1.02 0.8-2.12 0 0 .67-.21 2.2 8.2 6.4-.18 1.32-.27 2-.27 6.8 0 1.36 0.9 2 .27 1.53-1.04 2.2-.82 2.2-.82 4.4 1.1 1.6 1.92 0.8
2.12 5.1 5.6 8.2 1.27 8.2 2.15 0 3.07-1.87 3.75-3.65 3.95 2.9 2.5 5.4 7.3 5.4 1.48 0 1.07-.01 1.93-.01 2.2 0
.21 1.5 4.6 5.5 3.8 8.0 13 8.0 13 0 0 16 8c0-4.42-3.58-8-8z"/></svg>

 <button class="btn-link float-right site-header-toggle js-details-target" type="button" aria-label="Toggle
navigation" aria-expanded="false">
 <svg aria-hidden="true" class="octicon octicon-three-bars" height="24" version="1.1" viewBox="0 0 12 16"
width="18"><path fill-rule="evenodd" d="M11.41 9H.59C0 9 0 8.59 0 8c0-.59 0-1 .59-1H11.4c.59 0 .59 4.1 5.9 1 0
.59 0 1-.59 1h.01zm0-4H.59C0 5 0 4.59 0 4c0-.59 0-1 .59-1H11.4c.59 0 .59 4.1 5.9 1 0 .59 0 1-.59 1h.01zM.59
11H11.4c.59 0 .59 4.1 5.9 1 0 .59 0 1-.59 1H.59C0 13 0 12.59 0 12c0-.59 0-1 .59-1z"/></svg>
 </button>

 <div class="site-header-menu">
 <nav class="site-header-nav">
 <a href="/features" class="js-selected-navigation-item nav-item" data-ga-click="Header, click, Nav menu -
item:features" data-selected-links="/features /features/code-review /features/project-management
/features/integrations /features">
 Features

 <a href="/business" class="js-selected-navigation-item nav-item" data-ga-click="Header, click, Nav menu
- item:business" data-selected-links="/business /business/security /business/customers /business">
 Business

 <a href="/explore" class="js-selected-navigation-item nav-item" data-ga-click="Header, click, Nav menu -
item:explore" data-selected-links="/explore /trending /trending/developers /stars /integrations
/integrations/feature/code /integrations/feature/collaborate /integrations/feature/ship showcases showcases_search
showcases_landing /explore">
 Explore

 <a href="/marketplace" class="js-selected-navigation-item nav-item" data-ga-click="Header, click, Nav

```



```

menu - item:marketplace" data-selected-links="/marketplace">
 Marketplace
 <a href="/pricing" class="js-selected-navigation-item nav-item" data-ga-click="Header, click, Nav menu -
item:pricing" data-selected-links="/pricing /pricing/developer /pricing/team /pricing/business-hosted
/pricing/business-enterprise /pricing">
 Pricing
 </nav>

<div class="site-header-actions">
 <div class="header-search scoped-search site-scoped-search js-site-search" role="search">
<!-- "" --><!-- </textarea></xmp> --></option></form><form accept-charset="UTF-8" action="/vt-
middleware/cryptacular/search" class="js-site-search-form" data-scoped-search-url="/vt-
middleware/cryptacular/search" data-unscoped-search-url="/search" method="get"><div
style="margin:0;padding:0;display:inline"><input name="utf8" type="hidden" value="#x2713;" /></div>
<label class="form-control header-search-wrapper js-chromeless-input-container">
 This
repository
 <input type="text"
 class="form-control header-search-input js-site-search-focus js-site-search-field is-clearable"
 data-hotkey="s"
 name="q"
 value=""
 placeholder="Search"
 aria-label="Search this repository"
 data-unscoped-placeholder="Search GitHub"
 data-scoped-placeholder="Search"
 autocapitalize="off">
 <input type="hidden" class="js-site-search-type-field" name="type" >
</label>
</form></div>

 <a class="text-bold site-header-link" href="/login?return_to=%2Fvt-
middleware%2Fcryptacular%2Fblob%2Fmaster%2FNOTICE" data-ga-click="(Logged out) Header, clicked Sign
in, text:sign-in">Sign in
 or
 <a class="text-bold site-header-link" href="/join?source=header-repo" data-ga-click="(Logged out) Header,
clicked Sign up, text:sign-up">Sign up
</div>
</div>
</div>
</div>
</div>
<div id="start-of-content" class="show-on-focus"></div>

```

```
<div id="js-flash-container">
</div>
```

```
<div role="main">
 <div itemscope itemtype="http://schema.org/SoftwareSourceCode">
 <div id="js-repo-pjax-container" data-pjax-container>
```

```
<div class="pagehead repohead instapaper_ignore readability-menu experiment-repo-nav">
 <div class="container repohead-details-container">
```

```
 <ul class="pagehead-actions">

 <a href="/login?return_to=%2Fvt-middleware%2Fcryptacular"
 class="btn btn-sm btn-with-count tooltipped tooltipped-n"
 aria-label="You must be signed in to watch a repository" rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-eye" height="16" version="1.1" viewBox="0 0 16 16"
 width="16"><path fill-rule="evenodd" d="M8.06 2C3 2 0 8 8s3 6 8.06 6C13 14 16 8 16 8s-3-6-7.94-6zM8 12c-
 2.2 0-4-1.78-4-4 0-2.2 1.8-4 4-4 2.2 0 4 1.8 4 4 0 2.2-1.78 4-4 4zm2-4c0 1.11-.89 2-2 2-1.11 0-2-.89-2-2 0-
 1.11.89-2 2-2 1.11 0 2 .89 2 2z"/></svg>
 Watch

 <a class="social-count" href="/vt-middleware/cryptacular/watchers"
 aria-label="9 users are watching this repository">
 9

 <a href="/login?return_to=%2Fvt-middleware%2Fcryptacular"
 class="btn btn-sm btn-with-count tooltipped tooltipped-n"
 aria-label="You must be signed in to star a repository" rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-star" height="16" version="1.1" viewBox="0 0 14 16"
 width="14"><path fill-rule="evenodd" d="M14 6l-4.9-.64L7 1 4.9 5.36 0 6l3.6 3.26L2.67 14 7 11.67 11.33 14l-.93-
 4.74z"/></svg>
 Star

 <a class="social-count js-social-count" href="/vt-middleware/cryptacular/stargazers"
 aria-label="15 users starred this repository">
```

15

</a>

</li>

<li>

```
<a href="/login?return_to=%2Fvt-middleware%2Fcryptacular"
class="btn btn-sm btn-with-count tooltiped tooltiped-n"
aria-label="You must be signed in to fork a repository" rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-repo-forked" height="16" version="1.1" viewBox="0 0 10 16"
width="10"><path fill-rule="evenodd" d="M8 1a1.993 1.993 0 0 0 1 3.72V6L5 8 3 6V4.72A1.993 1.993 0 0 0 2
1a1.993 1.993 0 0 0 1 3.72V6.513 3v1.78A1.993 1.993 0 0 0 5 15a1.993 1.993 0 0 0 1 3.72V9.513 3V4.72A1.993
1.993 0 0 0 8 1zM2 4.2C1.34 4.2.8 3.65.8 3.65 1.2 1.2.65 1.2 1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2zm3 10c-
.66 0-1.2-.55-1.2-1.2 0-.65-.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2zm3-10c-.66 0-1.2-.55-1.2-1.2 0-
.65-.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2z"/></svg>
```

Fork

</a>

```
<a href="/vt-middleware/cryptacular/network" class="social-count"
aria-label="1 user forked this repository">
```

1

</a>

</li>

</ul>

<h1 class="public ">

```
<svg aria-hidden="true" class="octicon octicon-repo" height="16" version="1.1" viewBox="0 0 12 16"
width="12"><path fill-rule="evenodd" d="M4 9H3V8h1v1zm0-3H3v1h1V6zm0-2H3v1h1V4zm0-2H3v1h1V2zm8-1v12c0 .55-.45 1-1 1H6v2l-1.5-1.5L3 16v-2H1c-.55 0-1-.45-1-1h10c.55 0 1 .45
1 1zm-1 10H1v2h2v-1h3v1h5v-2zm0-10H2v9h9V1z"/></svg>
```

```
vt-
middleware<!--
```

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

```
--><strong itemprop="name"><a href="/vt-middleware/cryptacular" data-pjax="#js-repo-pjax-
container">cryptacular
```

</h1>

</div>

<div class="container">

<nav class="reponav js-repo-nav js-sidenav-container-pjax"

itemscope

itemtype="http://schema.org/BreadcrumbList"

role="navigation"

data-pjax="#js-repo-pjax-container">

<span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">

```
<a href="/vt-middleware/cryptacular" class="js-selected-navigation-item selected reponav-item" data-hotkey="g
c" data-selected-links="repo_source repo_downloads repo_commits repo_releases repo_tags repo_branches /vt-
middleware/cryptacular" itemprop="url">
 <svg aria-hidden="true" class="octicon octicon-code" height="16" version="1.1" viewBox="0 0 14 16"
width="14"><path fill-rule="evenodd" d="M9.5 3L8 4.5 11.5 8 8 11.5 9.5 13 14 8 9.5 3zm-5 0L0 8l4.5 5L6 11.5
2.5 8 6 4.5 4.5 3z"/></svg>
 Code
 <meta itemprop="position" content="1">

```

```

 <a href="/vt-middleware/cryptacular/issues" class="js-selected-navigation-item reponav-item" data-hotkey="g i"
data-selected-links="repo_issues repo_labels repo_milestones /vt-middleware/cryptacular/issues" itemprop="url">
 <svg aria-hidden="true" class="octicon octicon-issue-opened" height="16" version="1.1" viewBox="0 0 14 16"
width="14"><path fill-rule="evenodd" d="M7 2.3c3.14 0 5.7 2.56 5.7 5.7s-2.56 5.7-5.7 5.7A5.71 5.71 0 0 1 1.3
8c0-3.14 2.56-5.7 5.7-5.7zM7 1C3.14 1 0 4.14 0 8s3.14 7 7 7-3.14 7-7-3.14-7-7-7zm1 3H6v5h2V4zm0
6H6v2h2v-2z"/></svg>
 Issues
 4
 <meta itemprop="position" content="2">

```

```

 <a href="/vt-middleware/cryptacular/pulls" class="js-selected-navigation-item reponav-item" data-hotkey="g p"
data-selected-links="repo_pulls /vt-middleware/cryptacular/pulls" itemprop="url">
 <svg aria-hidden="true" class="octicon octicon-git-pull-request" height="16" version="1.1" viewBox="0 0 12
16" width="12"><path fill-rule="evenodd" d="M11 11.28V5c-.03-.78-.34-1.47-.94-2.06C9.46 2.35 8.78 2.03 8
2H7V0L4 3l3 3V4h1c.27.02.48.11.69.31.21.2.3.42.31.69v6.28A1.993 1.993 0 0 0 10 15a1.993 1.993 0 0 0 1-
3.72zm-1 2.92c-.66 0-1.2-.55-1.2-1.2 0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2zM4 3c0-1.11-
.89-2-2-2a1.993 1.993 0 0 0-1 3.72v6.56A1.993 1.993 0 0 0 2 15a1.993 1.993 0 0 0 1-3.72V4.72c.59-.34 1-.98 1-
1.72zm-.8 10c0 .66-.55 1.2-1.2 1.2-.65 0-1.2-.55-1.2-1.2 0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2zM2 4.2C1.34 4.2.8
3.65.8 3c0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2z"/></svg>
 Pull requests
 1
 <meta itemprop="position" content="3">

```

```
<a href="/vt-middleware/cryptacular/projects" class="js-selected-navigation-item reponav-item" data-selected-
links="repo_projects new_repo_project repo_project /vt-middleware/cryptacular/projects">
 <svg aria-hidden="true" class="octicon octicon-project" height="16" version="1.1" viewBox="0 0 15 16"
width="15"><path fill-rule="evenodd" d="M10 12h3V2h-3v10zm-4-2h3V2H6v8zm-4 4h3V2H2v12zm-1
1h13V1H1v14zM14 0H1a1 1 0 0 0-1 1v14a1 1 0 0 0 1 1h13a1 1 0 0 0 1-1V1a1 1 0 0 0-1-1z"/></svg>
 Projects
 0

```

```
<div class="reponav-dropdown js-menu-container">
```

```

<button type="button" class="btn-link reponav-item reponav-dropdown js-menu-target " data-no-toggle aria-
expanded="false" aria-haspopup="true">
 Insights
 <svg aria-hidden="true" class="octicon octicon-triangle-down v-align-middle text-gray" height="11"
version="1.1" viewBox="0 0 12 16" width="8"><path fill-rule="evenodd" d="M0 5l6 6 6-6z"/></svg>
</button>
<div class="dropdown-menu-content js-menu-content">
 <div class="dropdown-menu dropdown-menu-sw">

 <svg aria-hidden="true" class="octicon octicon-pulse" height="16" version="1.1" viewBox="0 0 14 16"
width="14"><path fill-rule="evenodd" d="M11.5 8L8.8 5.4 6.6 8.5 5.5 1.6 2.38 8H0v2h3.6l9-1.8.9 5.4L9 8.5l1.6
1.5H14V8z"/></svg>
 Pulse

 <svg aria-hidden="true" class="octicon octicon-graph" height="16" version="1.1" viewBox="0 0 16 16"
width="16"><path fill-rule="evenodd" d="M16 14v1H0V0h1v14h15zM5 13H3V8h2v5zm4 0H7V3h2v10zm4 0h-
2V6h2v7z"/></svg>
 Graphs

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

</div>
</div>

<div class="container new-discussion-timeline experiment-repo-nav">
 <div class="repository-content">

 <a href="/vt-middlewre/cryptacular/blob/c26911e3cd28497ce9daa3ce682e09cb2d1d8688/NOTICE" class="d-
none js-permalink-shortcut" data-hotkey="y">Permalink

 <!-- blob contrib key: blob_contributors:v21:f5054b9e46039e0ad937c69e6151b7d4 -->

 <div class="file-navigation js-zeroclipboard-container">

 <div class="select-menu branch-select-menu js-menu-container js-select-menu float-left">
 <button class=" btn btn-sm select-menu-button js-menu-target css-truncate" data-hotkey="w"

 type="button" aria-label="Switch branches or tags" aria-expanded="false" aria-haspopup="true">
 <i>Branch:</i>
 master
 </button>

 <div class="select-menu-modal-holder js-menu-content js-navigation-container" data-pjax>

```

```

<div class="select-menu-modal">
 <div class="select-menu-header">
 <svg aria-label="Close" class="octicon octicon-x js-menu-close" height="16" role="img" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M7.48 8l3.75 3.75-1.48 1.48L6 9.48l-3.75 3.75-
1.48-1.48L4.52 8 .77 4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48z"/></svg>
 Switch branches/tags
 </div>

 <div class="select-menu-filters">
 <div class="select-menu-text-filter">
 <input type="text" aria-label="Filter branches/tags" id="context-commitish-filter-field" class="form-control
js-filterable-field js-navigation-enable" placeholder="Filter branches/tags">
 </div>
 <div class="select-menu-tabs">

 <li class="select-menu-tab">
 <a href="#" data-tab-filter="branches" data-filter-placeholder="Filter branches/tags" class="js-select-menu-
tab" role="tab">Branches

 <li class="select-menu-tab">
 <a href="#" data-tab-filter="tags" data-filter-placeholder="Find a tag" class="js-select-menu-tab"
role="tab">Tags

 </div>
 </div>

 <div class="select-menu-list select-menu-tab-bucket js-select-menu-tab-bucket" data-tab-filter="branches"
role="menu">

 <div data-filterable-for="context-commitish-filter-field" data-filterable-type="substring">

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/vt-middlewre/cryptacular/blob/ISSUE-31+32/NOTICE"
data-name="ISSUE-31+32"
data-skip-pjax="true"
rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 ISSUE-31+32

 <a class="select-menu-item js-navigation-item js-navigation-open "
href="/vt-middlewre/cryptacular/blob/gh-pages/NOTICE"
data-name="gh-pages"

```

```

 data-skip-pjax="true"
 rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 gh-pages

 <a class="select-menu-item js-navigation-item js-navigation-open selected"
 href="/vt-middleware/cryptacular/blob/master/NOTICE"
 data-name="master"
 data-skip-pjax="true"
 rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 master

 <a class="select-menu-item js-navigation-item js-navigation-open "
 href="/vt-middleware/cryptacular/blob/v1.1/NOTICE"
 data-name="v1.1"
 data-skip-pjax="true"
 rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 v1.1

</div>

<div class="select-menu-no-results">Nothing to show</div>
</div>

<div class="select-menu-list select-menu-tab-bucket js-select-menu-tab-bucket" data-tab-filter="tags">
 <div data-filterable-for="context-commitish-filter-field" data-filterable-type="substring">

 <a class="select-menu-item js-navigation-item js-navigation-open "
 href="/vt-middleware/cryptacular/tree/v1.2.1/NOTICE"
 data-name="v1.2.1"
 data-skip-pjax="true"
 rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 v1.2.1

```

```


 <a class="select-menu-item js-navigation-item js-navigation-open "
 href="/vt-middleware/cryptacular/tree/v1.2.0/NOTICE"
 data-name="v1.2.0"
 data-skip-pjax="true"
 rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 v1.2.0

 <a class="select-menu-item js-navigation-item js-navigation-open "
 href="/vt-middleware/cryptacular/tree/v1.1.2/NOTICE"
 data-name="v1.1.2"
 data-skip-pjax="true"
 rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 v1.1.2

 <a class="select-menu-item js-navigation-item js-navigation-open "
 href="/vt-middleware/cryptacular/tree/v1.1.1/NOTICE"
 data-name="v1.1.1"
 data-skip-pjax="true"
 rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 v1.1.1

 <a class="select-menu-item js-navigation-item js-navigation-open "
 href="/vt-middleware/cryptacular/tree/v1.1.0/NOTICE"
 data-name="v1.1.0"
 data-skip-pjax="true"
 rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 v1.1.0

 <a class="select-menu-item js-navigation-item js-navigation-open "
 href="/vt-middleware/cryptacular/tree/v1.0/NOTICE"

```



```

data-name="v1.0"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

v1.0

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/vt-middleware/cryptacular/tree/v1.0-RC6/NOTICE"
data-name="v1.0-RC6"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

v1.0-RC6

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/vt-middleware/cryptacular/tree/v1.0-RC4/NOTICE"
data-name="v1.0-RC4"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

v1.0-RC4

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/vt-middleware/cryptacular/tree/v1.0-RC3/NOTICE"
data-name="v1.0-RC3"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

v1.0-RC3

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/vt-middleware/cryptacular/tree/v1.0-RC2/NOTICE"
data-name="v1.0-RC2"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"

```

```

viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 v1.0-RC2

<a class="select-menu-item js-navigation-item js-navigation-open "
 href="/vt-middlewre/cryptacular/tree/v1.0-RC1/NOTICE"
 data-name="v1.0-RC1"
 data-skip-pjax="true"
 rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 v1.0-RC1

</div>

 <div class="select-menu-no-results">Nothing to show</div>
</div>

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

<div class="BtnGroup float-right">
 <a href="/vt-middlewre/cryptacular/find/master"
 class="js-pjax-capture-input btn btn-sm BtnGroup-item"
 data-pjax
 data-hotkey="t">
 Find file

 <button aria-label="Copy file path to clipboard" class="js-zeroclipboard btn btn-sm BtnGroup-item tooltipped
 tooltipped-s" data-copied-hint="Copied!" type="button">Copy path</button>
</div>
<div class="breadcrumb js-zeroclipboard-target">
 <a href="/vt-
 middlewre/cryptacular">cryptacular<strong
 class="final-path">NOTICE
</div>
</div>

<div class="commit-tease">

 <a class="commit-tease-sha" href="/vt-
 middlewre/cryptacular/commit/6dd6f199ac3ecc3b4c5aef9e04be3bbe265a30a1" data-pjax>

```

```

 6dd6f19

 <relative-time datetime="2017-07-06T22:28:36Z">Jul 7, 2017</relative-time>

<div>

 dfish3r
 <a href="/vt-middlewre/cryptacular/commit/6dd6f199ac3ecc3b4c5aef9e04be3bbe265a30a1"
class="message" data-pjax="true" title="Update year in notice.">Update year in notice.
</div>

<div class="commit-tease-contributors">
 <button type="button" class="btn-link muted-link contributors-toggle" data-facebox="#blob_contributors_box">
 1
 contributor
 </button>

</div>

<div id="blob_contributors_box" style="display:none">
 <h2 class="facebox-header" data-facebox-id="facebox-header">Users who have contributed to this file</h2>
 <ul class="facebox-user-list" data-facebox-id="facebox-description">
 <li class="facebox-user-list-item">

 dfish3r

</div>
</div>

<div class="file">
 <div class="file-header">
 <div class="file-actions">

 <div class="BtnGroup">
 <a href="/vt-middlewre/cryptacular/raw/master/NOTICE" class="btn btn-sm BtnGroup-item" id="raw-
url">Raw
 <a href="/vt-middlewre/cryptacular/blame/master/NOTICE" class="btn btn-sm js-update-url-with-hash
BtnGroup-item" data-hotkey="b">Blame
 <a href="/vt-middlewre/cryptacular/commits/master/NOTICE" class="btn btn-sm BtnGroup-item"
rel="nofollow">History
 </div>

 <button type="button" class="btn-octicon disabled tooltiped tooltiped-nw"
 aria-label="You must be signed in to make or propose changes">

```

```

 <svg aria-hidden="true" class="octicon octicon-pencil" height="16" version="1.1" viewBox="0 0 14 16"
width="14"><path fill-rule="evenodd" d="M0 12v3h3l8-8-3-3-8 8zm3 2H1v-2h1v1h1v1zm10.3-9.3L12 6 9 3l1.3-
1.3a.996.996 0 0 1 1.41 0l1.59 1.59c.39.39.39 1.02 0 1.41z"/></svg>
 </button>
 <button type="button" class="btn-octicon btn-octicon-danger disabled tooltiped tooltiped-nw"
aria-label="You must be signed in to make or propose changes">
 <svg aria-hidden="true" class="octicon octicon-trashcan" height="16" version="1.1" viewBox="0 0 12 16"
width="12"><path fill-rule="evenodd" d="M11 2H9c0-.55-.45-1-1-1H5c-.55 0-1 .45-1 1H2c-.55 0-1 .45-1 1v1c0
.55.45 1 1 1v9c0 .55.45 1 1 1h7c.55 0 1-.45 1-1V5c.55 0 1-.45 1-1V3c0-.55-.45-1-1-1zm-1
12H3V5h1v8h1V5h1v8h1V5h1v8h1V5h1v9zm1-10H2V3h9v1z"/></svg>
 </button>
</div>

```

```

<div class="file-info">
 7 lines (5 sloc)

 165 Bytes
</div>
</div>

```

```

<div itemprop="text" class="blob-wrapper data type-text">
 <table class="highlight tab-size js-file-line-container" data-tab-size="8">
 <tr>
 <td id="L1" class="blob-num js-line-number" data-line-number="1"></td>
 <td id="LC1" class="blob-code blob-code-inner js-file-line">Cryptacular Java Library</td>
 </tr>
 <tr>
 <td id="L2" class="blob-num js-line-number" data-line-number="2"></td>
 <td id="LC2" class="blob-code blob-code-inner js-file-line">Copyright (C) 2003-2017 Virginia Tech.</td>
 </tr>
 <tr>
 <td id="L3" class="blob-num js-line-number" data-line-number="3"></td>
 <td id="LC3" class="blob-code blob-code-inner js-file-line">All rights reserved.</td>
 </tr>
 <tr>
 <td id="L4" class="blob-num js-line-number" data-line-number="4"></td>
 <td id="LC4" class="blob-code blob-code-inner js-file-line">
</td>
 </tr>
 <tr>
 <td id="L5" class="blob-num js-line-number" data-line-number="5"></td>
 <td id="LC5" class="blob-code blob-code-inner js-file-line">This product includes software developed at</td>
 </tr>
 <tr>
 <td id="L6" class="blob-num js-line-number" data-line-number="6"></td>
 <td id="LC6" class="blob-code blob-code-inner js-file-line">Virginia Tech (http://www.vt.edu).</td>
 </tr>
 </table>
</div>

```

```

 </tr>
</table>

</div>

</div>

<button type="button" data-facebox="#jump-to-line" data-facebox-class="linejump" data-hotkey="l" class="d-
none">Jump to Line</button>
<div id="jump-to-line" style="display:none">
 <!-- "" --><!-- </textarea></xmp> --></option></form><form accept-charset="UTF-8" action="" class="js-jump-
to-line-form" method="get"><div style="margin:0;padding:0;display:inline"><input name="utf8" type="hidden"
value="#x2713;" /></div>
 <input class="form-control linejump-input js-jump-to-line-field" type="text" placeholder="Jump to line…"
aria-label="Jump to line" autofocus>
 <button type="submit" class="btn">Go</button>
</form> </div>

</div>
<div class="modal-backdrop js-touch-events"></div>
</div>

</div>
</div>

</div>

<div class="container site-footer-container">
<div class="site-footer " role="contentinfo">
 <ul class="site-footer-links float-right">
 Contact
GitHub
 API
 Training
 Shop
 Blog
 About

 <svg aria-hidden="true" class="octicon octicon-mark-github" height="24" version="1.1" viewBox="0 0 16 16"
width="24"><path fill-rule="evenodd" d="M8 0C3.58 0 0 3.58 0 8c0 3.54 2.29 6.53 5.47 7.59.47.55 1.75 1.17 3.19
1.19.01-.82-.01-1.49-2.01-3.7-2.53-.49-2.69-.94-.09-.23-.48-.94-.82-1.13-.28-.15-.68-.52-.01-.53.63-.01 1.08.58
1.23.82.72 1.21 1.87.87 2.33.66.07-.52.28-.87.51-1.07-1.78-.2-3.64-.89-3.64-3.95 0-.87.31-1.59.82-2.15-.08-.2-.36-
1.02.08-2.12 0 0 .67-.21 2.28-.64-.18 1.32-.27 2-.27.68 0 1.36.09 2 .27 1.53-1.04 2.2-.82 2.2-.82.44 1.1.16 1.92.08

```

```

2.12.51.56.82 1.27.82 2.15 0 3.07-1.87 3.75-3.65 3.95.29.25.54.73.54 1.48 0 1.07-.01 1.93-.01 2.2 0
.21.15.46.55.38A8.013 8.013 0 0 0 16 8c0-4.42-3.58-8-8-8z"/></svg>

<ul class="site-footer-links">
 © 2017 GitHub, Inc.
 Terms
 <a href="https://github.com/site/privacy" data-ga-click="Footer, go to privacy,
text:privacy">Privacy
 <a href="https://github.com/security" data-ga-click="Footer, go to security,
text:security">Security
 Status
 Help

</div>
</div>

<div id="ajax-error-message" class="ajax-error-message flash flash-error">
 <svg aria-hidden="true" class="octicon octicon-alert" height="16" version="1.1" viewBox="0 0 16 16"
width="16"><path fill-rule="evenodd" d="M8.865 1.52c-.18-.31-.51-.5-.87-.5s-.69.19-.87.5L2.75 13.5c-.18.31-
.18.69 0 1 .19.31.52.5.87.5h13.7c.36 0 .69-.19.86-.5.17-.31.18-.69.01-1L8.865 1.52zM8.995 13h-2v-2h2v2zm0-3h-
2V6h2v4z"/></svg>
 <button type="button" class="flash-close js-flash-close js-ajax-error-dismiss" aria-label="Dismiss error">
 <svg aria-hidden="true" class="octicon octicon-x" height="16" version="1.1" viewBox="0 0 12 16"
width="12"><path fill-rule="evenodd" d="M7.48 8l3.75 3.75-1.48 1.48L6 9.48l-3.75 3.75-1.48-1.48L4.52 8 .77
4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48z"/></svg>
 </button>
 You can't perform that action at this time.
</div>

<script crossorigin="anonymous" src="https://assets-cdn.github.com/assets/compat-
91f98c37fc84eac24836eec2567e9912742094369a04c4eba6e3cd1fa18902d9.js"></script>
<script crossorigin="anonymous" src="https://assets-cdn.github.com/assets/frameworks-
f84bb87b149685d1e6c6f057ee324f2cd496e677f5a359a8b5db853313bb83e6.js"></script>

<script async="async" crossorigin="anonymous" src="https://assets-cdn.github.com/assets/github-
13fa3aa50ac8f9fa9a7d198f0cd13b0905775d39446ad076d17d8f74a998438a.js"></script>

<div class="js-stale-session-flash stale-session-flash flash flash-warn flash-banner d-none">
 <svg aria-hidden="true" class="octicon octicon-alert" height="16" version="1.1" viewBox="0 0 16 16"
width="16"><path fill-rule="evenodd" d="M8.865 1.52c-.18-.31-.51-.5-.87-.5s-.69.19-.87.5L2.75 13.5c-.18.31-
.18.69 0 1 .19.31.52.5.87.5h13.7c.36 0 .69-.19.86-.5.17-.31.18-.69.01-1L8.865 1.52zM8.995 13h-2v-2h2v2zm0-3h-
2V6h2v4z"/></svg>

```

```

 You signed in with another tab or window. Reload to refresh
your session.
 You signed out in another tab or window. Reload to refresh
your session.
</div>
<div class="facebox" id="facebox" style="display:none;">
<div class="facebox-popup">
 <div class="facebox-content" role="dialog" aria-labelledby="facebox-header" aria-describedby="facebox-
description">
 </div>
 <button type="button" class="facebox-close js-facebox-close" aria-label="Close modal">
 <svg aria-hidden="true" class="octicon octicon-x" height="16" version="1.1" viewBox="0 0 12 16"
width="12"><path fill-rule="evenodd" d="M7.48 8l3.75 3.75-1.48 1.48L6 9.48l-3.75 3.75-1.48-1.48L4.52 8 .77
4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48z"/></svg>
 </button>
 </div>
</div>
</body>
</html>

```

=====  
cryptacular LICENSE  
=====

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Version 2.0, January 2004  
<http://www.apache.org/licenses/>

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`analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt`,  
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See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers  
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and  
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`analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`  
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`analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java`  
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Posted Date: April 20, 2018

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=====  
cryptacular NOTICE  
=====

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="utf-8">
```

```
<link rel="dns-prefetch" href="https://assets-cdn.github.com">
<link rel="dns-prefetch" href="https://avatars0.githubusercontent.com">
<link rel="dns-prefetch" href="https://avatars1.githubusercontent.com">
<link rel="dns-prefetch" href="https://avatars2.githubusercontent.com">
<link rel="dns-prefetch" href="https://avatars3.githubusercontent.com">
<link rel="dns-prefetch" href="https://github-cloud.s3.amazonaws.com">
<link rel="dns-prefetch" href="https://user-images.githubusercontent.com/">

<link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/frameworks-
2d2d4c150f7000385741c6b992b302689ecd172246c6428904e0813be9bceca6.css" media="all" rel="stylesheet" />
<link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/github-
0522ae8d3b3bdc841d2f91f90efd5f1fd9040d910905674cd134ced43a6dfea6.css" media="all" rel="stylesheet" />

<link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/site-
cfab053e93f0e27f4c63d4ff6b7957bd25f711667fe678e747f8a4d88c47b38d.css" media="all" rel="stylesheet" />

<meta name="viewport" content="width=device-width">

<title>cryptacular/NOTICE at master · vt-middleware/cryptacular · GitHub</title>
<link rel="search" type="application/opensearchdescription+xml" href="/opensearch.xml" title="GitHub">
<link rel="fluid-icon" href="https://github.com/fluidicon.png" title="GitHub">
<meta property="fb:app_id" content="1401488693436528">

<meta content="https://avatars7.githubusercontent.com/u/6122907?v=4&s=400" property="og:image" /><meta
content="GitHub" property="og:site_name" /><meta content="object" property="og:type" /><meta content="vt-
middleware/cryptacular" property="og:title" /><meta content="https://github.com/vt-middleware/cryptacular"
property="og:url" /><meta content="cryptacular - The friendly complement to the BouncyCastle crypto API for
Java." property="og:description" />

<link rel="assets" href="https://assets-cdn.github.com/">

<meta name="pjax-timeout" content="1000">

<meta name="request-id" content="E0E4:26F16:12A5AE6:1D11801:596C7978" data-pjax-transient>

<meta name="selected-link" value="repo_source" data-pjax-transient>

<meta name="google-site-verification" content="KT5gs8h0wvaagLKA VWq8bbeNwnZZK1r1XQysX3xurLU">
<meta name="google-site-verification" content="ZzhVyeFwb7w3e0-uOTlm8Jsck2F5StVihD0exw2fsA">
<meta name="google-analytics" content="UA-3769691-2">

<meta content="collector.githubapp.com" name="octolytics-host" /><meta content="github" name="octolytics-app-
```

```
id" /><meta content="https://collector.githubapp.com/github-external/browser_event" name="octolytics-event-url" /><meta content="E0E4:26F16:12A5AE6:1D11801:596C7978" name="octolytics-dimension-request_id" /><meta content="sea" name="octolytics-dimension-region_edge" /><meta content="iad" name="octolytics-dimension-region_render" /><meta content="/<user-name>/<repo-name>/blob/show" data-pjax-transient="true" name="analytics-location" />
```

```
<meta class="js-ga-set" name="dimension1" content="Logged Out">
```

```
<meta name="hostname" content="github.com">
```

```
<meta name="user-login" content="">
```

```
<meta name="expected-hostname" content="github.com">
```

```
<meta name="js-proxy-site-detection-payload"
```

```
content="N2ZhMjk0NTA4MjI1NmZhYTVlNzM5NzVjZmFkOWY2NGFkNmMxYzcyMGViNzAzZGQxMGMzZmJhZDQ3YWZiZTI0OHx7InJlbW90ZV9hZGRyZXNzIjoiMTEwLjIwLjIyMC4xMzUjLCJyZXF1ZXN0X2lkIjoiRTBFNDoyNkYxNjoxMkE1QUU2OjFEMTE4MDE6NTk2Qzc5NzgiLCJ0aW1lc3RhbXAiOjE1MDAyODEyMDgsImhvc3QiOiIjInaXRodWIuY29tIn0=">
```

```
<meta name="html-safe-nonce" content="5aa226b80a18dc40894e1d405e4eb31cfca7d616">
```

```
<meta http-equiv="x-pjax-version" content="f682644ce1bb9629b9d9d9bedf64801b">
```

```
<link href="https://github.com/vt-middlewre/cryptacular/commits/master.atom" rel="alternate" title="Recent Commits to cryptacular:master" type="application/atom+xml">
```

```
<meta name="description" content="cryptacular - The friendly complement to the BouncyCastle crypto API for Java.">
```

```
<meta name="go-import" content="github.com/vt-middlewre/cryptacular git https://github.com/vt-middlewre/cryptacular.git">
```

```
<meta content="6122907" name="octolytics-dimension-user_id" /><meta content="vt-middlewre" name="octolytics-dimension-user_login" /><meta content="15714989" name="octolytics-dimension-repository_id" /><meta content="vt-middlewre/cryptacular" name="octolytics-dimension-repository_nwo" /><meta content="true" name="octolytics-dimension-repository_public" /><meta content="false" name="octolytics-dimension-repository_is_fork" /><meta content="15714989" name="octolytics-dimension-repository_network_root_id" /><meta content="vt-middlewre/cryptacular" name="octolytics-dimension-repository_network_root_nwo" /><meta content="false" name="octolytics-dimension-repository_explore_github_marketplace_ci_cta_shown" />
```

```

<link rel="canonical" href="https://github.com/vt-middlewre/cryptacular/blob/master/NOTICE" data-pjax-
transient>

<meta name="browser-stats-url" content="https://api.github.com/_private/browser/stats">

<meta name="browser-errors-url" content="https://api.github.com/_private/browser/errors">

<link rel="mask-icon" href="https://assets-cdn.github.com/pinned-octocat.svg" color="#000000">
<link rel="icon" type="image/x-icon" href="https://assets-cdn.github.com/favicon.ico">

<meta name="theme-color" content="#1e2327">

</head>

<body class="logged-out env-production page-blob">

<div class="position-relative js-header-wrapper ">
 Skip to content
 <div id="js-pjax-loader-bar" class="pjax-loader-bar"><div class="progress"></div></div>

 <header class="site-header js-details-container Details" role="banner">
<div class="site-nav-container">
 <a class="header-logo-invertocat" href="https://github.com/" aria-label="Homepage" data-ga-click="(Logged out)
Header, go to homepage, icon:logo-wordmark">
 <svg aria-hidden="true" class="octicon octicon-mark-github" height="32" version="1.1" viewBox="0 0 16 16"
width="32"><path fill-rule="evenodd" d="M8 0C3.58 0 0 3.58 0 8c0 3.54 2.29 6.53 5.47 7.59.47.55 1.17 1.08 1.92
.19-.01-.82-.01-1.49-.2.01-.37-.25-.49-.26-.94-.09-.23-.48-.94-.82-1.13-.28-.15-.68-.52-.01-.53.63-.01 1.08.58
1.23.82.72 1.21 1.87.87 2.33.66.07-.52.28-.87.51-1.07-1.78-.2-3.64-.89-3.64-3.95 0-.87.31-1.59.82-2.15-.08-.2-.36-
1.02.08-2.12 0 0 .67-.21 2.28-.64-.18 1.32-.27 2-.27.68 0 1.36.09 2 .27 1.53-1.04 2.2-.82 2.2-.82.44 1.1.16 1.92.08
2.12.51.56.82 1.27.82 2.15 0 3.07-1.87 3.75-3.65 3.95.29.25.54.73.54 1.48 0 1.07-.01 1.93-.01 2.2 0
.21.15.46.55.38A8.013 8.013 0 0 0 16 8c0-4.42-3.58-8-8-8z"/></svg>

 <button class="btn-link float-right site-header-toggle js-details-target" type="button" aria-label="Toggle
navigation" aria-expanded="false">
 <svg aria-hidden="true" class="octicon octicon-three-bars" height="24" version="1.1" viewBox="0 0 12 16"

```

```

width="18"><path fill-rule="evenodd" d="M11.41 9H.59C0 9 0 8.59 0 8c0-.59 0-1 .59-1H11.4c.59 0 .59.41.59 1 0
.59 0 1-.59 1h.01zm0-4H.59C0 5 0 4.59 0 4c0-.59 0-1 .59-1H11.4c.59 0 .59.41.59 1 0 .59 0 1-.59 1h.01zM.59
11H11.4c.59 0 .59.41.59 1 0 .59 0 1-.59 1H.59C0 13 0 12.59 0 12c0-.59 0-1 .59-1z"/></svg>
</button>

<div class="site-header-menu">
 <nav class="site-header-nav">
 <a href="/features" class="js-selected-navigation-item nav-item" data-ga-click="Header, click, Nav menu -
item:features" data-selected-links="/features /features/code-review /features/project-management
/features/integrations /features">
 Features

 <a href="/business" class="js-selected-navigation-item nav-item" data-ga-click="Header, click, Nav menu -
item:business" data-selected-links="/business /business/security /business/customers /business">
 Business

 <a href="/explore" class="js-selected-navigation-item nav-item" data-ga-click="Header, click, Nav menu -
item:explore" data-selected-links="/explore /trending /trending/developers /stars /integrations
/integrations/feature/code /integrations/feature/collaborate /integrations/feature/ship showcases showcases_search
showcases_landing /explore">
 Explore

 <a href="/marketplace" class="js-selected-navigation-item nav-item" data-ga-click="Header, click, Nav
menu - item:marketplace" data-selected-links=" /marketplace">
 Marketplace

 <a href="/pricing" class="js-selected-navigation-item nav-item" data-ga-click="Header, click, Nav menu -
item:pricing" data-selected-links="/pricing /pricing/developer /pricing/team /pricing/business-hosted
/pricing/business-enterprise /pricing">
 Pricing

 </nav>

 <div class="site-header-actions">
 <div class="header-search scoped-search site-scoped-search js-site-search" role="search">
 <!-- "" --><!-- </textarea></xmp> --></option></form><form accept-charset="UTF-8" action="/vt-
middleware/cryptacular/search" class="js-site-search-form" data-scoped-search-url="/vt-
middleware/cryptacular/search" data-unscooped-search-url="/search" method="get"><div
style="margin:0;padding:0;display:inline"><input name="utf8" type="hidden" value="#x2713;" /></div>
 <label class="form-control header-search-wrapper js-chromeless-input-container">
 This
repository
 <input type="text"
 class="form-control header-search-input js-site-search-focus js-site-search-field is-clearable"
 data-hotkey="s"
 name="q"
 value=""
 placeholder="Search"
 aria-label="Search this repository"
 data-unscooped-placeholder="Search GitHub"
 data-scoped-placeholder="Search"
 autocapitalize="off">
 <input type="hidden" class="js-site-search-type-field" name="type" >
 </div>
 </div>

```

```
</label>
</form></div>
```

```
 <a class="text-bold site-header-link" href="/login?return_to=%2Fvt-
middleware%2Fcryptacular%2Fblob%2Fmaster%2FNOTICE" data-ga-click="(Logged out) Header, clicked Sign
in, text:sign-in">Sign in
 or
 <a class="text-bold site-header-link" href="/join?source=header-repo" data-ga-click="(Logged out) Header,
clicked Sign up, text:sign-up">Sign up
 </div>
</div>
</div>
</header>
```

```
</div>
```

```
<div id="start-of-content" class="show-on-focus"></div>
```

```
<div id="js-flash-container">
</div>
```

```
<div role="main">
 <div itemscope itemtype="http://schema.org/SoftwareSourceCode">
 <div id="js-repo-pjax-container" data-pjax-container>
```

```
<div class="pagehead repohead instapaper_ignore readability-menu experiment-repo-nav">
```

```
<div class="container repohead-details-container">
```

```
<ul class="pagehead-actions">
```

```

```

```
<a href="/login?return_to=%2Fvt-middleware%2Fcryptacular"
class="btn btn-sm btn-with-count tooltipped tooltipped-n"
aria-label="You must be signed in to watch a repository" rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-eye" height="16" version="1.1" viewBox="0 0 16 16"
width="16"><path fill-rule="evenodd" d="M8.06 2C3 2 0 8 8 8s3 6 8.06 6C13 14 16 8 16 8s-3-6-7.94-6zM8 12c-
2.2 0-4-1.78-4-4 0-2.2 1.8-4 4-4 2.2 0 4 1.8 4 4 0 2.2-1.78 4 4 4zm2-4c0 1.11-.89 2-2 2-1.11 0-2-.89-2-2 0-
1.11-.89-2-2 1.11 0 2 .89 2 2z"/></svg>
```

```
Watch
```

```


<a class="social-count" href="/vt-middleware/cryptacular/watchers"
 aria-label="9 users are watching this repository">
 9

 <a href="/login?return_to=%2Fvt-middleware%2Fcryptacular"
 class="btn btn-sm btn-with-count tooltiped tooltiped-n"
 aria-label="You must be signed in to star a repository" rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-star" height="16" version="1.1" viewBox="0 0 14 16"
 width="14"><path fill-rule="evenodd" d="M14 6l-4.9-.64L7 1 4.9 5.36 0 6l3.6 3.26L2.67 14 7 11.67 11.33 14l-.93-
 4.74z"/></svg>
 Star

 <a class="social-count js-social-count" href="/vt-middleware/cryptacular/stargazers"
 aria-label="15 users starred this repository">
 15

 <a href="/login?return_to=%2Fvt-middleware%2Fcryptacular"
 class="btn btn-sm btn-with-count tooltiped tooltiped-n"
 aria-label="You must be signed in to fork a repository" rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-repo-forked" height="16" version="1.1" viewBox="0 0 10 16"
 width="10"><path fill-rule="evenodd" d="M8 1a1.993 1.993 0 0 0-1 3.72V6L5 8 3 6V4.72A1.993 1.993 0 0 0 2
 1a1.993 1.993 0 0 0-1 3.72V6.513 3v1.78A1.993 1.993 0 0 0 5 15a1.993 1.993 0 0 0 1-3.72V9.513-3V4.72A1.993
 1.993 0 0 0 8 1zM2 4.2C1.34 4.2.8 3.65.8 3c-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2zm3 10c-
 .66 0-1.2-.55-1.2-1.2 0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2zm3-10c-.66 0-1.2-.55-1.2-1.2 0-
 .65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2z"/></svg>
 Fork

 <a href="/vt-middleware/cryptacular/network" class="social-count"
 aria-label="1 user forked this repository">
 1

<h1 class="public ">
 <svg aria-hidden="true" class="octicon octicon-repo" height="16" version="1.1" viewBox="0 0 12 16"
 width="12"><path fill-rule="evenodd" d="M4 9H3V8h1v1zm0-3H3v1h1V6zm0-2H3v1h1V4zm0-

```



```

2H3v1h1V2zm8-1v12c0 .55-.45 1-1 1H6v2l-1.5-1.5L3 16v-2H1c-.55 0-1-.45-1-1V1c0-.55.45-1 1-1h10c.55 0 1 .45
1 1zm-1 10H1v2h2v-1h3v1h5v-2zm0-10H2v9h9V1z"/></svg>
vt-
middleware<!--
--><!--
--><strong itemprop="name"><a href="/vt-middleware/cryptacular" data-pjax="#js-repo-pjax-
container">cryptacular

</h1>

</div>
<div class="container">

<nav class="reponav js-repo-nav js-sidenav-container-pjax"
 itemscope
 itemtype="http://schema.org/BreadcrumbList"
 role="navigation"
 data-pjax="#js-repo-pjax-container">

 <a href="/vt-middleware/cryptacular" class="js-selected-navigation-item selected reponav-item" data-hotkey="g
c" data-selected-links="repo_source repo_downloads repo_commits repo_releases repo_tags repo_branches /vt-
middleware/cryptacular" itemprop="url">
 <svg aria-hidden="true" class="octicon octicon-code" height="16" version="1.1" viewBox="0 0 14 16"
width="14"><path fill-rule="evenodd" d="M9.5 3L8 4.5 11.5 8 8 11.5 9.5 13 14 8 9.5 3zm-5 0L0 8l4.5 5L6 11.5
2.5 8 6 4.5 4.5 3z"/></svg>
 Code
 <meta itemprop="position" content="1">

 <a href="/vt-middleware/cryptacular/issues" class="js-selected-navigation-item reponav-item" data-hotkey="g i"
data-selected-links="repo_issues repo_labels repo_milestones /vt-middleware/cryptacular/issues" itemprop="url">
 <svg aria-hidden="true" class="octicon octicon-issue-opened" height="16" version="1.1" viewBox="0 0 14 16"
width="14"><path fill-rule="evenodd" d="M7 2.3c3.14 0 5.7 2.56 5.7 5.7s-2.56 5.7-5.7 5.7A5.71 5.71 0 0 1 1.3
8c0-3.14 2.56-5.7 5.7-5.7zm7 1C3.14 1 0 4.14 0 8s3.14 7 7 7-3.14 7-7-7zm1 3H6v5h2V4zm0
6H6v2h2v-2z"/></svg>
 Issues
 4
 <meta itemprop="position" content="2">

 <a href="/vt-middleware/cryptacular/pulls" class="js-selected-navigation-item reponav-item" data-hotkey="g p"
data-selected-links="repo_pulls /vt-middleware/cryptacular/pulls" itemprop="url">
 <svg aria-hidden="true" class="octicon octicon-git-pull-request" height="16" version="1.1" viewBox="0 0 12
16" width="12"><path fill-rule="evenodd" d="M11 11.28V5c-.03-.78-.34-1.47-.94-2.06C9.46 2.35 8.78 2.03 8
2H7V0L4 3l3 3V4h1c.27.02.48.11.69.31.21.2.3.42.31.69v6.28A1.993 1.993 0 0 0 10 15a1.993 1.993 0 0 0 1-

```

3.72zm-1 2.92c-.66 0-1.2-.55-1.2-1.2 0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2zM4 3c0-1.11-  
.89-2-2-2a1.993 1.993 0 0 0-1 3.72v6.56A1.993 1.993 0 0 0 2 15a1.993 1.993 0 0 0 1-3.72V4.72c.59-.34 1-.98 1-  
1.72zm-.8 10c0 .66-.55 1.2-1.2 1.2-.65 0-1.2-.55-1.2-1.2 0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2zM2 4.2C1.34 4.2.8  
3.65.8 3c0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2z"/></svg>

<span itemprop="name">Pull requests</span>  
<span class="Counter">1</span>  
<meta itemprop="position" content="3">  
</a> </span>

<a href="/vt-middleware/cryptacular/projects" class="js-selected-navigation-item reponav-item" data-selected-  
links="repo\_projects new\_repo\_project repo\_project /vt-middleware/cryptacular/projects">

<svg aria-hidden="true" class="octicon octicon-project" height="16" version="1.1" viewBox="0 0 15 16"  
width="15"><path fill-rule="evenodd" d="M10 12h3V2h-3v10zm-4-2h3V2H6v8zm-4 4h3V2H2v12zm-1  
1h13V1H1v14zM14 0H1a1 1 0 0 0-1 1v14a1 1 0 0 0 1 1h13a1 1 0 0 0 1-1V1a1 1 0 0 0-1-1z"/></svg>

Projects  
<span class="Counter" >0</span>  
</a>

<div class="reponav-dropdown js-menu-container">  
<button type="button" class="btn-link reponav-item reponav-dropdown js-menu-target " data-no-toggle aria-  
expanded="false" aria-haspopup="true">

Insights  
<svg aria-hidden="true" class="octicon octicon-triangle-down v-align-middle text-gray" height="11"  
version="1.1" viewBox="0 0 12 16" width="8"><path fill-rule="evenodd" d="M0 5l6 6z"/></svg>  
</button>

<div class="dropdown-menu-content js-menu-content">  
<div class="dropdown-menu dropdown-menu-sw">  
<a class="dropdown-item" href="/vt-middleware/cryptacular/pulse" data-skip-pjax>  
<svg aria-hidden="true" class="octicon octicon-pulse" height="16" version="1.1" viewBox="0 0 14 16"  
width="14"><path fill-rule="evenodd" d="M11.5 8L8.8 5.4 6.6 8.5 5.5 1.6 2.38 8H0v2h3.6l9-1.8.9 5.4L9 8.5l1.6  
1.5H14V8z"/></svg>

Pulse  
</a>  
<a class="dropdown-item" href="/vt-middleware/cryptacular/graphs" data-skip-pjax>  
<svg aria-hidden="true" class="octicon octicon-graph" height="16" version="1.1" viewBox="0 0 16 16"  
width="16"><path fill-rule="evenodd" d="M16 14v1H0V0h1v14h15zM5 13H3V8h2v5zm4 0H7V3h2v10zm4 0h-  
2V6h2v7z"/></svg>

Graphs  
</a>  
</div>  
</div>  
</div>  
</nav>

</div>  
</div>

```

<div class="container new-discussion-timeline experiment-repo-nav">
 <div class="repository-content">

 <a href="/vt-middleware/cryptacular/blob/c26911e3cd28497ce9daa3ce682e09cb2d1d8688/NOTICE" class="d-
 none js-permalink-shortcut" data-hotkey="y">Permalink

 <!-- blob contrib key: blob_contributors:v21:f5054b9e46039e0ad937c69e6151b7d4 -->

 <div class="file-navigation js-zeroclipboard-container">

 <div class="select-menu branch-select-menu js-menu-container js-select-menu float-left">
 <button class=" btn btn-sm select-menu-button js-menu-target css-truncate" data-hotkey="w"

 type="button" aria-label="Switch branches or tags" aria-expanded="false" aria-haspopup="true">
 <i>Branch:</i>
 master
 </button>

 <div class="select-menu-modal-holder js-menu-content js-navigation-container" data-pjax>

 <div class="select-menu-modal">
 <div class="select-menu-header">
 <svg aria-label="Close" class="octicon octicon-x js-menu-close" height="16" role="img" version="1.1"
 viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M7.48 8l3.75-3.75-1.48-1.48L6 9.48l-3.75 3.75-
 1.48-1.48L4.52 8 .77 4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48z"/></svg>
 Switch branches/tags
 </div>

 <div class="select-menu-filters">
 <div class="select-menu-text-filter">
 <input type="text" aria-label="Filter branches/tags" id="context-commitish-filter-field" class="form-control
 js-filterable-field js-navigation-enable" placeholder="Filter branches/tags">
 </div>
 <div class="select-menu-tabs">

 <li class="select-menu-tab">
 <a href="#" data-tab-filter="branches" data-filter-placeholder="Filter branches/tags" class="js-select-menu-
 tab" role="tab">Branches

 <li class="select-menu-tab">
 <a href="#" data-tab-filter="tags" data-filter-placeholder="Find a tag" class="js-select-menu-tab"
 role="tab">Tags

 </div>
 </div>

```

```

<div class="select-menu-list select-menu-tab-bucket js-select-menu-tab-bucket" data-tab-filter="branches"
role="menu">

 <div data-filterable-for="context-commitish-filter-field" data-filterable-type="substring">

 <a class="select-menu-item js-navigation-item js-navigation-open "
 href="/vt-middleware/cryptacular/blob/ISSUE-31+32/NOTICE"
 data-name="ISSUE-31+32"
 data-skip-pjax="true"
 rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 ISSUE-31+32

 <a class="select-menu-item js-navigation-item js-navigation-open "
 href="/vt-middleware/cryptacular/blob/gh-pages/NOTICE"
 data-name="gh-pages"
 data-skip-pjax="true"
 rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 gh-pages

 <a class="select-menu-item js-navigation-item js-navigation-open selected"
 href="/vt-middleware/cryptacular/blob/master/NOTICE"
 data-name="master"
 data-skip-pjax="true"
 rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 master

 <a class="select-menu-item js-navigation-item js-navigation-open "
 href="/vt-middleware/cryptacular/blob/v1.1/NOTICE"
 data-name="v1.1"
 data-skip-pjax="true"
 rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 v1.1

 </div>

```

```


</div>

<div class="select-menu-no-results">Nothing to show</div>
</div>

<div class="select-menu-list select-menu-tab-bucket js-select-menu-tab-bucket" data-tab-filter="tags">
 <div data-filterable-for="context-commitish-filter-field" data-filterable-type="substring">

 <a class="select-menu-item js-navigation-item js-navigation-open "
 href="/vt-middleware/cryptacular/tree/v1.2.1/NOTICE"
 data-name="v1.2.1"
 data-skip-pjax="true"
 rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 v1.2.1

 <a class="select-menu-item js-navigation-item js-navigation-open "
 href="/vt-middleware/cryptacular/tree/v1.2.0/NOTICE"
 data-name="v1.2.0"
 data-skip-pjax="true"
 rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 v1.2.0

 <a class="select-menu-item js-navigation-item js-navigation-open "
 href="/vt-middleware/cryptacular/tree/v1.1.2/NOTICE"
 data-name="v1.1.2"
 data-skip-pjax="true"
 rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 v1.1.2

 <a class="select-menu-item js-navigation-item js-navigation-open "
 href="/vt-middleware/cryptacular/tree/v1.1.1/NOTICE"
 data-name="v1.1.1"
 data-skip-pjax="true"

```

```

rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 v1.1.1

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/vt-middleware/cryptacular/tree/v1.1.0/NOTICE"
data-name="v1.1.0"
data-skip-pjax="true"
rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 v1.1.0

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/vt-middleware/cryptacular/tree/v1.0/NOTICE"
data-name="v1.0"
data-skip-pjax="true"
rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 v1.0

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/vt-middleware/cryptacular/tree/v1.0-RC6/NOTICE"
data-name="v1.0-RC6"
data-skip-pjax="true"
rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 v1.0-RC6

<a class="select-menu-item js-navigation-item js-navigation-open "
href="/vt-middleware/cryptacular/tree/v1.0-RC4/NOTICE"
data-name="v1.0-RC4"
data-skip-pjax="true"
rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>


```

```

 v1.0-RC4

<a class="select-menu-item js-navigation-item js-navigation-open "
 href="/vt-middleware/cryptacular/tree/v1.0-RC3/NOTICE"
 data-name="v1.0-RC3"
 data-skip-pjax="true"
 rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 v1.0-RC3

<a class="select-menu-item js-navigation-item js-navigation-open "
 href="/vt-middleware/cryptacular/tree/v1.0-RC2/NOTICE"
 data-name="v1.0-RC2"
 data-skip-pjax="true"
 rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 v1.0-RC2

<a class="select-menu-item js-navigation-item js-navigation-open "
 href="/vt-middleware/cryptacular/tree/v1.0-RC1/NOTICE"
 data-name="v1.0-RC1"
 data-skip-pjax="true"
 rel="nofollow">
 <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>

 v1.0-RC1

</div>

<div class="select-menu-no-results">Nothing to show</div>
</div>

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

<div class="BtnGroup float-right">
 <a href="/vt-middleware/cryptacular/find/master"
 class="js-pjax-capture-input btn btn-sm BtnGroup-item"

```

```
 data-pjax
 data-hotkey="t">
 Find file

 <button aria-label="Copy file path to clipboard" class="js-zeroclipboard btn btn-sm BtnGroup-item tooltiped
tooltipled-s" data-copied-hint="Copied!" type="button">Copy path</button>
</div>
<div class="breadcrumb js-zeroclipboard-target">
 <a href="/vt-
middleware/cryptacular">cryptacular<strong
class="final-path">NOTICE
</div>
</div>
```

```
<div class="commit-tease">

 <a class="commit-tease-sha" href="/vt-
middleware/cryptacular/commit/6dd6f199ac3ecc3b4c5aef9e04be3bbe265a30a1" data-pjax>
 6dd6f19

 <relative-time datetime="2017-07-06T22:28:36Z">Jul 7, 2017</relative-time>

</div>

 dfish3r
 <a href="/vt-middleware/cryptacular/commit/6dd6f199ac3ecc3b4c5aef9e04be3bbe265a30a1"
class="message" data-pjax="true" title="Update year in notice.">Update year in notice.
</div>
```

```
<div class="commit-tease-contributors">
 <button type="button" class="btn-link muted-link contributors-toggle" data-facebox="#blob_contributors_box">
 1
 contributor
 </button>
</div>
```

```
<div id="blob_contributors_box" style="display:none">
 <h2 class="facebox-header" data-facebox-id="facebox-header">Users who have contributed to this file</h2>
 <ul class="facebox-user-list" data-facebox-id="facebox-description">
 <li class="facebox-user-list-item">

 dfish3r

```



```


</div>
</div>

<div class="file">
 <div class="file-header">
<div class="file-actions">

 <div class="BtnGroup">
 <a href="/vt-middleware/cryptacular/raw/master/NOTICE" class="btn btn-sm BtnGroup-item" id="raw-
url">Raw
 <a href="/vt-middleware/cryptacular/blame/master/NOTICE" class="btn btn-sm js-update-url-with-hash
BtnGroup-item" data-hotkey="b">Blame
 <a href="/vt-middleware/cryptacular/commits/master/NOTICE" class="btn btn-sm BtnGroup-item"
rel="nofollow">History
 </div>

 <button type="button" class="btn-octicon disabled tooltiped tooltiped-nw"
aria-label="You must be signed in to make or propose changes">
 <svg aria-hidden="true" class="octicon octicon-pencil" height="16" version="1.1" viewBox="0 0 14 16"
width="14"><path fill-rule="evenodd" d="M0 12v3h3l8-8-3-3-8 8zm3 2H1v-2h1v1zm10.3-9.3L12 6 9 3l1.3-
1.3a.996.996 0 0 1 1.41 0l1.59 1.59c.39.39 1.02 0 1.41z"/></svg>
 </button>
 <button type="button" class="btn-octicon btn-octicon-danger disabled tooltiped tooltiped-nw"
aria-label="You must be signed in to make or propose changes">
 <svg aria-hidden="true" class="octicon octicon-trashcan" height="16" version="1.1" viewBox="0 0 12 16"
width="12"><path fill-rule="evenodd" d="M11 2H9c0-.55-.45-1-1-1H5c-.55 0-1 .45-1 1H2c-.55 0-1 .45-1 1v1c0
.55.45 1 1 1v9c0 .55.45 1 1 1h7c.55 0 1-.45 1-1V5c.55 0 1-.45 1-1V3c0-.55-.45-1-1-1zm-1
12H3V5h1v8h1V5h1v8h1V5h1v8h1V5h1v9zm1-10H2V3h9v1z"/></svg>
 </button>
</div>

<div class="file-info">
 7 lines (5 sloc)

 165 Bytes
</div>
</div>

<div itemprop="text" class="blob-wrapper data type-text">
 <table class="highlight tab-size js-file-line-container" data-tab-size="8">
 <tr>
 <td id="L1" class="blob-num js-line-number" data-line-number="1"></td>
 <td id="LC1" class="blob-code blob-code-inner js-file-line">Cryptacular Java Library</td>
 </tr>

```

```

<tr>
 <td id="L2" class="blob-num js-line-number" data-line-number="2"></td>
 <td id="LC2" class="blob-code blob-code-inner js-file-line">Copyright (C) 2003-2017 Virginia Tech.</td>
</tr>
<tr>
 <td id="L3" class="blob-num js-line-number" data-line-number="3"></td>
 <td id="LC3" class="blob-code blob-code-inner js-file-line">All rights reserved.</td>
</tr>
<tr>
 <td id="L4" class="blob-num js-line-number" data-line-number="4"></td>
 <td id="LC4" class="blob-code blob-code-inner js-file-line">
</td>
</tr>
<tr>
 <td id="L5" class="blob-num js-line-number" data-line-number="5"></td>
 <td id="LC5" class="blob-code blob-code-inner js-file-line">This product includes software developed at</td>
</tr>
<tr>
 <td id="L6" class="blob-num js-line-number" data-line-number="6"></td>
 <td id="LC6" class="blob-code blob-code-inner js-file-line">Virginia Tech (http://www.vt.edu).</td>
</tr>
</table>

</div>

</div>

<button type="button" data-facebox="#jump-to-line" data-facebox-class="linejump" data-hotkey="l" class="d-
none">Jump to Line</button>
<div id="jump-to-line" style="display:none">
 <!-- "" --><!-- </textarea></xmp> --></option></form><form accept-charset="UTF-8" action="" class="js-jump-
to-line-form" method="get"><div style="margin:0;padding:0;display:inline"><input name="utf8" type="hidden"
value="✓" /></div>
 <input class="form-control linejump-input js-jump-to-line-field" type="text" placeholder="Jump to line…"
aria-label="Jump to line" autofocus>
 <button type="submit" class="btn">Go</button>
</form> </div>

</div>
<div class="modal-backdrop js-touch-events"></div>
</div>

</div>
</div>

</div>

```

```

<div class="container site-footer-container">
 <div class="site-footer " role="contentinfo">
 <ul class="site-footer-links float-right">
 Contact
GitHub
 API
 Training
 Shop
 Blog
 About

 <svg aria-hidden="true" class="octicon octicon-mark-github" height="24" version="1.1" viewBox="0 0 16 16"
width="24"><path fill-rule="evenodd" d="M8 0C3.58 0 0 3.58 0 8c0 3.54 2.29 6.53 5.47 7.59.4.07.55-.17.55-.38
0-.19-.01-.82-.01-1.49-2.01-.37-2.53-.49-2.69-.94-.09-.23-.48-.94-.82-1.13-.28-.15-.68-.52-.01-.53.63-.01
1.08.58 1.23.82.72 1.21 1.87.87 2.33.66.07-.52.28-.87.51-1.07-1.78-.2-3.64-.89-3.64-3.95 0-.87.31-1.59.82-2.15-.08-.2-.36-
1.02.08-2.12 0 0 .67-.21 2.28-.64-.18 1.32-.27 2-.27.68 0 1.36.09 2 .27 1.53-1.04 2.2-.82 2.2-.82.44 1.1.16 1.92.08
2.12.51.56.82 1.27.82 2.15 0 3.07-1.87 3.75-3.65 3.95.29.25.54.73.54 1.48 0 1.07-.01 1.93-.01 2.2 0
.21.15.46.55.38A8.013 8.013 0 0 0 16 8c0-4.42-3.58-8-8-8z"/></svg>

 <ul class="site-footer-links">
 © 2017 GitHub, Inc.
 Terms
 <a href="https://github.com/site/privacy" data-ga-click="Footer, go to privacy,
text:privacy">Privacy
 <a href="https://github.com/security" data-ga-click="Footer, go to security,
text:security">Security
 Status
 Help

 </div>
</div>

```

```

<div id="ajax-error-message" class="ajax-error-message flash flash-error">
 <svg aria-hidden="true" class="octicon octicon-alert" height="16" version="1.1" viewBox="0 0 16 16"
width="16"><path fill-rule="evenodd" d="M8.865 1.52c-.18-.31-.51-.5-.87-.5s-.69.19-.87.5L2.75 13.5c-.18.31-
.18.69 0 1 .19.31.52.5.87.5h13.7c.36 0 .69-.19.86-.5.17-.31.18-.69.01-1L8.865 1.52zM8.995 13h-2v-2h2v2zm0-3h-
2V6h2v4z"/></svg>
 <button type="button" class="flash-close js-flash-close js-ajax-error-dismiss" aria-label="Dismiss error">
 <svg aria-hidden="true" class="octicon octicon-x" height="16" version="1.1" viewBox="0 0 12 16"
width="12"><path fill-rule="evenodd" d="M7.48 8l3.75 3.75-1.48 1.48L6 9.48l-3.75 3.75-1.48-1.48L4.52 8 .77
4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48z"/></svg>
 </button>

```

You can't perform that action at this time.

</div>

```
<script crossorigin="anonymous" src="https://assets-cdn.github.com/assets/compat-91f98c37fc84eac24836ecc2567e9912742094369a04c4eba6e3cd1fa18902d9.js"></script>
<script crossorigin="anonymous" src="https://assets-cdn.github.com/assets/frameworks-f84bb87b149685d1e6c6f057ee324f2cd496e677f5a359a8b5db853313bb83e6.js"></script>
```

```
<script async="async" crossorigin="anonymous" src="https://assets-cdn.github.com/assets/github-13fa3aa50ac8f9fa9a7d198f0cd13b0905775d39446ad076d17d8f74a998438a.js"></script>
```

```
<div class="js-stale-session-flash stale-session-flash flash flash-warn flash-banner d-none">
 <svg aria-hidden="true" class="octicon octicon-alert" height="16" version="1.1" viewBox="0 0 16 16"
width="16"><path fill-rule="evenodd" d="M8.865 1.52c-.18-.31-.51-.5-.87-.5s-.69.19-.87.5L2.75 13.5c-.18.31-.18.69 0 1.19.31.52.5.87.5h13.7c.36 0 .69-.19.86-.5.17-.31.18-.69.01-1L8.865 1.52zM8.995 13h-2v-2h2v2zm0-3h-2V6h2v4z"/></svg>
 You signed in with another tab or window. Reload to refresh
your session.
 You signed out in another tab or window. Reload to refresh
your session.
</div>
```

```
<div class="facebox" id="facebox" style="display:none;">
<div class="facebox-popup">
 <div class="facebox-content" role="dialog" aria-labelledby="facebox-header" aria-describedby="facebox-
description">
 </div>
 <button type="button" class="facebox-close js-facebox-close" aria-label="Close modal">
 <svg aria-hidden="true" class="octicon octicon-x" height="16" version="1.1" viewBox="0 0 12 16"
width="12"><path fill-rule="evenodd" d="M7.48 8l3.75 3.75-1.48 1.48L6 9.48l-3.75 3.75-1.48-1.48L4.52 8.77
4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48z"/></svg>
 </button>
 </div>
</div>
```

</body>
</html>

=====  
cryptacular LICENSE  
=====

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Alan Beale <biljr@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

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Date: Sat, 08 Jul 2000 20:27:21 +0100  
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The 50 level includes Brian's frequency class 1, words words appearing in at least 5 of 12 of the dictionaries as indicated in the 12Dicts package, and uppercase words in at least 4 of the previous 12 dictionaries. A decent number of proper names is also included: The top 1000 male, female, and Last names from the 1990 Census report; a list of names sent to me by Alan Beale; and a few names that I added myself. Finally a small list of abbreviations not commonly found in other word lists is included.

The name files from the Census report is a government document which I don't think can be copyrighted.

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The 70 level includes Brian's frequency class 0 and the 74,550 common dictionary words from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added. The 70 level also included the 5desk list from version 4.0 of the 12Dics package which is the public domain.

The 80 level includes the ENABLE word list, all the lists in the ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics Dictionary" (UKACD), the list of signature words in from YAWL package, and the 10,196 places list from the MWords package.

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## 1.108 elfutils 0.172 :2.el7

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```

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```
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```

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<signature of Ty Coon>, 1 April 1989

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## 1.109 emacs 24.3 :22.el7

### 1.109.1 Available under license :

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```
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```

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```

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```

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 | Site Map |
 Search </td>
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<tr>
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<tr>
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<tr>
<td valign="top" class="navColCell">Miscellaneous</td>

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</tr>
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Unicode
Policies</td>
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 </tr>
</table>

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<!-- BEGIN CONTENTS -->

```

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<blockquote>

```

```

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```

```

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 the </p>

```

```


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```

 the
 Unicode Consortium Name and Trademark Usage Policy.</p>

```

```

 <table class="sidebar" align="right" width="50%" id="table1">

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```

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```

 <td class="sidebarTitle">Notice to End User: Terms of Use</td>

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```

 </tr>

```

```

 <tr>

```

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</tr>

</table>

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</ol>

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<ol>

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</ol>

</li>

</ol>

</blockquote>

<hr width="95%">

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<blockquote>

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and

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```

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 src="http://www.unicode.org/webscripts/lastModified.js">
 </script>

 </center>
 </div>

</td>

</tr>

</table>
</body>
</html>
;;; copyright.el --- update the copyright notice in current buffer

;; Copyright (C) 1991-1995, 1998, 2001-2013 Free Software Foundation,
;; Inc.

;; Author: Daniel Pfeiffer <occitan@esperanto.org>
;; Keywords: maint, tools

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```

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::: Commentary:

:: Allows updating the copyright year and above mentioned GPL version manually  
:: or when saving a file.  
:: Do (add-hook 'before-save-hook 'copyright-update), or use  
:: M-x customize-variable RET before-save-hook RET.

::: Code:

```
(defgroup copyright nil
 "Update the copyright notice in current buffer."
 :group 'tools)
```

```
(defcustom copyright-limit 2000
 "Don't try to update copyright beyond this position unless interactive.
 A value of nil means to search whole buffer."
 :group 'copyright
 :type '(choice (integer :tag "Limit")
 (const :tag "No limit")))
```

```
(defcustom copyright-at-end-flag nil
 "Non-nil means to search backwards from the end of the buffer for copyright.
 This is useful for ChangeLogs."
 :group 'copyright
 :type 'boolean
 :version "23.1")
;;;###autoload(put 'copyright-at-end-flag 'safe-local-variable 'booleanp)
```

```
(defcustom copyright-regexp
 "\\(\\|@copyright{ }\\|[[Cc]opyright\\|s *:?\\|s *\\(?:C)\\|)?\\|
 \\|[[Cc]opyright\\|s *:?\\|s *\\|)\\|
 \\|s *\\(?:[0-9\\n]*\\|s *\\|)?\\|
 \\|([1-9]\\|[-0-9,;/%#\\n\\t]\\|\\|s<\\|\\|s>\\|)*[0-9]+\\|)"
 "What your copyright notice looks like.
 The second \\(\\) construct must match the years."
 :group 'copyright
 :type 'regexp)
```

```
(defcustom copyright-names-regexp ""
 "Regex matching the names which correspond to the user.
 Only copyright lines where the name matches this regexp will be updated.
 This allows you to avoid adding years to a copyright notice belonging to
 someone else or to a group for which you do not work."
 :group 'copyright
 :type 'regexp)
```



```
;; The worst that can happen is a malicious regexp that overflows in
;; the regexp matcher, a minor nuisance. It's a pain to be always
;; prompted if you want to put this in a dir-locals.el.
;;;###autoload(put 'copyright-names-regexp 'safe-local-variable 'stringp)
```

```
(defcustom copyright-years-regexp
 "\\(\\s *\\)\\([1-9]\\([-0-9, '/*%#\\n\\t\\|\\s<\\|\\s>\\])*[0-9]+\\)"
 "Match additional copyright notice years.
The second \\(\\) construct must match the years."
 :group 'copyright
 :type 'regexp)
```

```
;; See "Copyright Notices" in maintain.info.
;; TODO? 'end only for ranges at the end, other for all ranges.
;; Minimum limit on the size of a range?
```

```
(defcustom copyright-year-ranges nil
 "Non-nil if individual consecutive years should be replaced with a range.
For example: 2005, 2006, 2007, 2008 might be replaced with 2005-2008.
If you use ranges, you should add an explanatory note in a README file.
The function `copyright-fix-years' respects this variable."
 :group 'copyright
 :type 'boolean
 :version "24.1")
```

```
;;;###autoload(put 'copyright-year-ranges 'safe-local-variable 'booleanp)
```

```
(defcustom copyright-query 'function
 "If non-nil, ask user before changing copyright.
When this is `function', only ask when called non-interactively."
 :group 'copyright
 :type '(choice (const :tag "Do not ask")
 (const :tag "Ask unless interactive" function)
 (other :tag "Ask" t)))
```

```
;; when modifying this, also modify the comment generated by autoinsert.el
```

```
(defconst copyright-current-gpl-version "3"
 "String representing the current version of the GPL or nil.")
```

```
(defvar copyright-update t
 "The function `copyright-update' sets this to nil after updating a buffer.")
```

```
;; This is a defvar rather than a defconst, because the year can
;; change during the Emacs session.
```

```
(defvar copyright-current-year (format-time-string "%Y")
 "String representing the current year.")
```

```

(defun copyright-limit () ; re-search-forward BOUND
 (and copyright-limit
 (if copyright-at-end-flag
 (- (point) copyright-limit)
 (+ (point) copyright-limit))))

(defun copyright-re-search (regexp &optional bound noerror count)
 "Re-search forward or backward depending on `copyright-at-end-flag'."
 (if copyright-at-end-flag
 (re-search-backward regexp bound noerror count)
 (re-search-forward regexp bound noerror count)))

(defun copyright-start-point ()
 "Return point-min or point-max, depending on `copyright-at-end-flag'."
 (if copyright-at-end-flag
 (point-max)
 (point-min)))

(defun copyright-offset-too-large-p ()
 "Return non-nil if point is too far from the edge of the buffer."
 (when copyright-limit
 (if copyright-at-end-flag
 (< (point) (- (point-max) copyright-limit))
 (> (point) (+ (point-min) copyright-limit))))

(defun copyright-find-copyright ()
 "Return non-nil if a copyright header suitable for updating is found.
The header must match `copyright-regexp' and `copyright-names-regexp', if set.
This function sets the match-data that `copyright-update-year' uses."
 (widen)
 (goto-char (copyright-start-point))
 (condition-case err
 ;; (1) Need the extra \\(\\) around copyright-regexp because we
 ;; goto (match-end 1) below. See note (2) below.
 (copyright-re-search (concat "\\(" copyright-regexp
 "\\)\\([\\t]*\\n\\)?.*\\(?:"
 copyright-names-regexp "\\)"))
 (copyright-limit)
 t)
 ;; In case the regexp is rejected. This is useful because
 ;; copyright-update is typically called from before-save-hook where
 ;; such an error is very inconvenient for the user.
 (error (message "Can't update copyright: %s" err) nil)))

(defun copyright-find-end ()
 "Possibly adjust the search performed by `copyright-find-copyright'.
If the years continue onto multiple lines that are marked as comments,
skips to the end of all the years."

```

```

(while (save-excursion
 (and (eq (following-char) ?,)
 (progn (forward-char 1) t)
 (progn (skip-chars-forward " \t") (eolp))
 comment-start-skip
 (save-match-data
 (forward-line 1)
 (and (looking-at comment-start-skip)
 (goto-char (match-end 0))))
 (looking-at-p copyright-years-regexp)))
 (forward-line 1)
 (re-search-forward comment-start-skip
 ;; (2) Need the extra \\(\\) so that the years are subexp 3, as
 ;; they are at note (1) above.
 (re-search-forward (format "\\(%s\\)" copyright-years-regexp))))

```

```

(defun copyright-update-year (replace noquery)
 ;; This uses the match-data from copyright-find-copyright/end.
 (goto-char (match-end 1))
 (copyright-find-end)
 (setq copyright-current-year (format-time-string "%Y"))
 (unless (string= (buffer-substring (- (match-end 3) 2) (match-end 3))
 (substring copyright-current-year -2))
 (if (or noquery
 (save-window-excursion
 (switch-to-buffer (current-buffer))
 ;; Fixes some point-moving oddness (bug#2209).
 (save-excursion
 (y-or-n-p (if replace
 (concat "Replace copyright year(s) by "
 copyright-current-year "? ")
 (concat "Add " copyright-current-year
 " to copyright? "))))))
 (if replace
 (replace-match copyright-current-year t t nil 3)
 (let ((size (save-excursion (skip-chars-backward "0-9"))))
 (if (and (eq (% (- (string-to-number copyright-current-year)
 (string-to-number (buffer-substring
 (+ (point) size)
 (point))))
 100)
 1)
 (or (eq (char-after (+ (point) size -1)) ?-)
 (eq (char-after (+ (point) size -2)) ?-)))
 ;; This is a range so just replace the end part.
 (delete-char size)
 ;; Insert a comma with the preferred number of spaces.
 (insert

```

```

(save-excursion
(if (re-search-backward "[0-9]\\(*, *\\)[0-9]"
(line-beginning-position) t)
(match-string 1)
", ")))
;; If people use the '91 '92 '93 scheme, do that as well.
(if (eq (char-after (+ (point) size -3)) ?')
(insert ?'))
;; Finally insert the new year.
(insert (substring copyright-current-year size))))))

;;;###autoload
(defun copyright-update (&optional arg interactive)
"Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
`copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively."
(interactive "*P\n")
(when (or copyright-update interactive)
(let ((noquery (or (not copyright-query)
(and (eq copyright-query 'function) interactive))))
(save-excursion
(save-restriction
;; If names-regexp doesn't match, we should not mess with
;; the years _or_ the GPL version.
;; TODO there may be multiple copyrights we should update.
(when (copyright-find-copyright)
(copyright-update-year arg noquery)
(goto-char (copyright-start-point))
(and copyright-current-gpl-version
;; Match the GPL version comment in .el files.
;; This is sensitive to line-breaks. :(
(copyright-re-search
"the Free Software Foundation[,\n].*either version \
\\([0-9]+\\)\\(?: of the License\\)?: or[\n].*any later version"
(copyright-limit) t)
;; Don't update if the file is already using a more recent
;; version than the "current" one.
(< (string-to-number (match-string 1))
(string-to-number copyright-current-gpl-version))
(or noquery
(save-match-data
(goto-char (match-end 1))
(save-window-excursion
(switch-to-buffer (current-buffer))

```

```

(y-or-n-p
(format "Replace GPL version %s with version %s? "
(match-string-no-properties 1)
copyright-current-gpl-version))))
(replace-match copyright-current-gpl-version t t nil 1))))
(set (make-local-variable 'copyright-update) nil)))
;; If a write-file-hook returns non-nil, the file is presumed to be written.
nil))

```

```
;; FIXME heuristic should be within 50 years of present (cf calendar).
```

```
;;###autoload
```

```
(defun copyright-fix-years ()
```

```
"Convert 2 digit years to 4 digit years.
```

```
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
```

```
If `copyright-year-ranges' (which see) is non-nil, also
```

```
independently replaces consecutive years with a range."
```

```
(interactive)
```

```
;; TODO there may be multiple copyrights we should fix.
```

```
(if (copyright-find-copyright)
```

```
(let ((s (match-beginning 3))
```

```
(p (make-marker))
```

```
;; Not line-beg-pos, so we don't mess up leading whitespace.
```

```
(copystart (match-beginning 0))
```

```
e last sep year prev-year first-year range-start range-end)
```

```
;; In case years are continued over multiple, commented lines.
```

```
(goto-char (match-end 1))
```

```
(copyright-find-end)
```

```
(setq e (copy-marker (1+ (match-end 3))))
```

```
(goto-char s)
```

```
(while (re-search-forward "[0-9]+" e t)
```

```
(set-marker p (point))
```

```
(goto-char (match-beginning 0))
```

```
(setq year (string-to-number (match-string 0)))
```

```
(and (setq sep (char-before))
```

```
(/= (char-syntax sep) ?\s)
```

```
(/= sep ?-)
```

```
(insert " "))
```

```
(when (< year 100)
```

```
(insert (if (>= year 50) "19" "20"))
```

```
(setq year (+ year (if (>= year 50) 1900 2000))))
```

```
(goto-char p)
```

```
(when copyright-year-ranges
```

```
;; If the previous thing was a range, don't try to tack more on.
```

```
;; Ie not 2000-2005 -> 2000-2005-2007
```

```
;; TODO should merge into existing range if possible.
```

```
(if (eq sep ?-)
```

```
(setq prev-year nil
```

```

 year nil)
 (if (and prev-year (= year (1+ prev-year)))
 (setq range-end (point))
 (when (and first-year prev-year
 (> prev-year first-year))
 (goto-char range-end)
 (delete-region range-start range-end)
 (insert (format "-%d" prev-year))
 (goto-char p))
 (setq first-year year
 range-start (point))))
 (setq prev-year year
 last p))
 (when last
 (when (and copyright-year-ranges
 first-year prev-year
 (> prev-year first-year))
 (goto-char range-end)
 (delete-region range-start range-end)
 (insert (format "-%d" prev-year)))
 (goto-char last)
 ;; Don't mess up whitespace after the years.
 (skip-chars-backward "\t")
 (save-restriction
 (narrow-to-region copystart (point))
 ;; This is clearly wrong, eg what about comment markers?
 ;; (let ((fill-prefix " "))
 ;; ;; TODO do not break copyright owner over lines.
 ;; (fill-region (point-min) (point-max))))
 (set-marker e nil)
 (set-marker p nil))
 ;; Simply reformatting the years is not copyrightable, so it does
 ;; not seem right to call this. Also it messes with ranges.
 ;; (copyright-update nil t)
 (message "No copyright message")))

;;###autoload
(define-skeleton copyright
 "Insert a copyright by $ORGANIZATION notice at cursor."
 "Company: "
 comment-start
 "Copyright (C) " `(format-time-string "%Y") " by "
 (or (getenv "ORGANIZATION")
 str)
 '(if (copyright-offset-too-large-p)
 (message "Copyright extends beyond `copyright-limit' and won't be updated automatically."))
 comment-end \n)

```

```

;; TODO: recurse, exclude COPYING etc.
;;;###autoload
(defun copyright-update-directory (directory match &optional fix)
 "Update copyright notice for all files in DIRECTORY matching MATCH.
If FIX is non-nil, run `copyright-fix-years' instead."
 (interactive "DDirectory: \nMFilenames matching (regexp): ")
 (dolist (file (directory-files directory t match nil))
 (unless (file-directory-p file)
 (message "Updating file `%s'" file)
 ;; FIXME we should not use find-file+save+kill.
 (let ((enable-local-variables :safe)
 (enable-local-eval nil))
 (find-file file)
 (let ((inhibit-read-only t))
 (if fix
 (copyright-fix-years)
 (copyright-update)))
 (save-buffer)
 (kill-buffer (current-buffer))))))

(provide 'copyright)

;; For the copyright sign:
;; Local Variables:
;; coding: utf-8
;; End:

;;; copyright.el ends here
;ELC
;;; Compiled by gm@skiddaw on Fri Mar 8 00:17:33 2013
;;; from file /misc/emacs/bzr/emacs24-merge/lisp/emacs-lisp/copyright.el
;;; in Emacs version 24.3.1
;;; with all optimizations.

;;; This file contains utf-8 non-ASCII characters,
;;; and so cannot be loaded into Emacs 22 or earlier.
(and (boundp 'emacs-version)
 (< (aref emacs-version (1- (length emacs-version))) ?A)
 (string-lessp emacs-version "23")
 (error "`%s' was compiled for Emacs 23 or later" #$_))

.....

(byte-code
"300301302303304305%210306307310311304301312313&210306314302315304301312316317\
320&
210306321322323304301312324&210306325326327304301312324&2103063303313323043013"

```

```

12\324&\210\306\333\302\334\304\301\312\316\317\335& \210\306\336\337\340\304\301\312\341&\207" [custom-
declare-group copyright nil "Update the copyright notice in current buffer." :group tools custom-declare-variable
copyright-limit 2000 "Don't try to update copyright beyond this position unless interactive.\nA value of nil means to
search whole buffer." :type (choice (integer :tag "Limit") (const :tag "No limit")) copyright-at-end-flag "Non-nil
means to search backwards from the end of the buffer for copyright.\nThis is useful for ChangeLogs." boolean
:version "23.1" copyright-regexp "\\(\\|@copyright{ }|[Cc]opyright\\s *?:?\\s *\\(?:C)\\)?|[Cc]opyright\\s *?:?\\s
*\\|\\s *\\(?:[^\n]*\\s *\\)?|[1-9]\\([-0-9, '/*%#n]\\\\s<\\\\s>\\)*[0-9]+\\)" "What your copyright notice looks
like.\n\nThe second \\(\\) construct must match the years." regexp copyright-names-regexp "" "Regexp matching the
names which correspond to the user.\n\nOnly copyright lines where the name matches this regexp will be
updated.\n\nThis allows you to avoid adding years to a copyright notice belonging to\nsomeone else or to a group for
which you do not work." copyright-years-regexp "\\(\\s *\\|\\|([1-9]\\([-0-9, '/*%#n]\\\\s<\\\\s>\\)*[0-9]+\\)" "Match
additional copyright notice years.\n\nThe second \\(\\) construct must match the years." copyright-year-ranges "Non-
nil if individual consecutive years should be replaced with a range.\n\nFor example: 2005, 2006, 2007, 2008 might be
replaced with 2005-2008.\n\nIf you use ranges, you should add an explanatory note in a README file.\n\nThe function
`copyright-fix-years' respects this variable." "24.1" copyright-query 'function "If non-nil, ask user before changing
copyright.\n\nWhen this is `function', only ask when called non-interactively." (choice (const :tag "Do not ask") (const
:tag "Ask unless interactive" function) (other :tag "Ask" t)) 10)
#@60 String representing the current version of the GPL or nil.
(defconst copyright-current-gpl-version "3" (#$. 2656))
#@75 The function `copyright-update' sets this to nil after updating a buffer.
(defvar copyright-update t (#$. 2778))
#@39 String representing the current year.
(defvar copyright-current-year (format-time-string "% Y") (#$. 2898))
(defalias 'copyright-limit #[nil "\205 \203\207\207" [copyright-limit copyright-at-end-flag] 2])
(put 'copyright-limit 'byte-optimizer 'byte-compile-inline-expand)
#@69 Re-search forward or backward depending on `copyright-at-end-flag'.
(defalias 'copyright-re-search #[(regexp &optional bound noerror count) "\203\305 \n\207\306 \n\207"
[copyright-at-end-flag regexp bound noerror count re-search-backward re-search-forward] 5 (#$. 3189))
#@70 Return point-min or point-max, depending on `copyright-at-end-flag'.
(defalias 'copyright-start-point #[nil "\203d\207e\207" [copyright-at-end-flag] 1 (#$. 3479))
#@65 Return non-nil if point is too far from the edge of the buffer.
(defalias 'copyright-offset-too-large-p #[nil "\205 \203 dZW\207 e\V\207" [copyright-limit copyright-at-end-flag] 3
(#$. 3653))
#@218 Return non-nil if a copyright header suitable for updating is found.
The header must match `copyright-regexp' and `copyright-names-regexp', if set.
This function sets the match-data that `copyright-update-year' uses.
(defalias 'copyright-find-copyright #[nil "~\210\300 b\210\301\302\303\217\207" [copyright-start-point err (byte-
code "\304\305\306 \307\260\n\205\203\nZ\202\n\310#\207" [copyright-regexp copyright-names-regexp
copyright-limit copyright-at-end-flag copyright-re-search "\\(" "\\|\\|([]*\n\\)?.*\\(?:" "\\)" t] 6) ((error (message
"Can't update copyright: %s" err) nil))] 3 (#$. 3862))
#@175 Possibly adjust the search performed by `copyright-find-copyright'.
If the years continue onto multiple lines that are marked as comments,
skips to the end of all the years.
(defalias 'copyright-find-end #[nil "\212g\305=\2053\306u\210\307\310w\210\2053\2053\311
\312\216\306y\210\313!\205\314\225b*\2053\n\315\313!*)\205H\306y\210\316!\210\316\317\320\n"! \210\202\20
7" [comment-start-skip save-match-data-internal copyright-years-regexp regexp inhibit-changing-match-data 44 1 "
" nil match-data ((byte-code "\301\302"\207" [save-match-data-internal set-match-data evaporate] 3)) looking-at 0 t
re-search-forward format "\\(%s\\)" 4 (#$. 4487))

```



```
(defalias 'copyright-update-year #[(replace noquery) "\305\225b\210\306
\210\307\310!\311\225\312Z\311\225{\313\314O\230?\205\247 \204>\315
\316\216\317p!\210\212\320\2035\321\322Q\2029\323\324Q!+\205\247\203J\325\326\211\314\311%\207\212\327\
314x)\330!\330\`f\` {!Z\331\246\305=\203\332\`f\333#\334=\204x\332\`f\313#\334=\203\335\`f!\210\202\241\212\
336\337\340 \326#\203\217\341\305!\202\220\342)c\210\332\`f\343#\344=\203\241\344c\210\`f\314Oc)\207"
[copyright-current-year noquery #1=#:wconfig replace size 1 copyright-find-end format-time-string "%Y" 3 2 -2 nil
current-window-configuration ((set-window-configuration #1#)) switch-to-buffer y-or-n-p "Replace copyright
year(s) by " " " "Add " " to copyright?" replace-match t "0-9" string-to-number 100 + -1 45 delete-char re-search-
backward "[0-9]\\\ (*, *\\)[0-9]" line-beginning-position match-string " , " -3 39] 6)
#@369 Update copyright notice to indicate the current year.
```

With prefix ARG, replace the years in the notice rather than adding the current year after them. If necessary, and `copyright-current-gpl-version' is set, any copying permissions following the copyright are updated as well.

If non-nil, INTERACTIVEP tells the function to behave as when it's called interactively.

```
(defalias 'copyright-update #[(&optional arg interactivep) "\204 \205\207\n?\206\n\306=\205 \212\214\307
\203~\310\`f"\210\311 b\210
\203~\312\313\205@\203<`Z\202@`\\314#\203~\315\316\317!!\315
!W\203~\204v\320 \321\216\317\225b\210\322 \323\216\324p!\210\325\326\327\330\317!
#!,\203~\331
\314\211\332\317%\210)\333\300!\210\332*\332\207" [copyright-update interactivep copyright-query noquery arg
copyright-current-gpl-version function copyright-find-copyright copyright-update-year copyright-start-point
copyright-re-search "the Free Software Foundation[;,n].*either version \\([0-9]+\)\(\(?: of the License\)\)?, or[
\n].*any later version" t string-to-number match-string 1 match-data ((byte-code "\301\302"\207" [save-match-data-
internal set-match-data evaporate] 3)) current-window-configuration ((set-window-configuration #1=#:wconfig))
switch-to-buffer y-or-n-p format "Replace GPL version %s with version %s?" match-string-no-properties replace-
match nil make-local-variable copyright-limit copyright-at-end-flag save-match-data-internal #1#] 6 (#$. 6067)
"*P\nd")
```

#@208 Convert 2 digit years to 4 digit years.

Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.

If `copyright-year-ranges' (which see) is non-nil, also independently replaces consecutive years with a range.

```
(defalias 'copyright-fix-years #[nil "\306 \203 \307\224\310
\311\224\312\211\211\211\211\211\211\211"#$%&\313\225b\210\314
\210\315\307\225T!#&b\210\316\317#\320#\203\331%\312\223\210\311\224b\210\321\322\311!!`Sf\211\203f
z\323U\204f
\324U\204f\325c\210\`f\326W\203\207\`f\327Y\203v\330\202w\331c\210\`f\211\327Y\203\204\332\202\205\333\`%b
\210\203\320
\324=\203\235\312\211\202\320\203\255\`fTU\203\255\202\320\n\203\314\203\314\nV\203\314b\210
\210\334\335" c\210%b\210\`f\`f%\`"\2025\`"\203\203\376\n\203\376\203\376\nV\203\376b\210
\210\334\335" c\210"\`b\210\336\312x\210\214$` } \210\337ed"\210)#\312\211\223\210%\312\211\223.\207\340\34
1!\207" [range-end range-start first-year prev-year year sep copyright-find-copyright 3 make-marker 0 nil 1
copyright-find-end copy-marker re-search-forward "[0-9]+" t string-to-number match-string 32 45 " " 100 50 "19"
"20" 1900 2000 format "-%d" " " fill-region message "No copyright message" last e copystart p s copyright-year-
ranges] 12 (#$. 7556) nil])
(put 'copyright 'no-self-insert t)
```

#@558 Insert a copyright by \$ORGANIZATION notice at cursor.

This is a skeleton command (see `skeleton-insert').  
Normally the skeleton text is inserted at point, with nothing "inside".  
If there is a highlighted region, the skeleton text is wrapped  
around the region text.

A prefix argument ARG says to wrap the skeleton around the next ARG words.  
A prefix argument of -1 says to wrap around region, even if not highlighted.  
A prefix argument of zero says to wrap around zero words---that is, nothing.  
This is a way of overriding the use of a highlighted region.

```
(defalias 'copyright #[(&optional str arg) "\302\303#\207" [str arg skeleton-proxy-new ("Company: " comment-start "Copyright (C) " `(format-time-string "%Y") " by " (or (getenv "ORGANIZATION") str) '(if (copyright-offset-too-large-p) (message "Copyright extends beyond `copyright-limit' and won't be updated automatically.")) comment-end n)] 4 (#$. 8883) "*P\nP")
```

```
#@122 Update copyright notice for all files in DIRECTORY matching MATCH.
```

If FIX is non-nil, run `copyright-fix-years' instead.

```
(defalias 'copyright-update-directory #[(directory match &optional fix) "\306\307
\310$\310\211\205E@\311\n!\204=\312\313\n"\210\314\310\315\n!\210*\307\2032\316 \210\2025\317 \210)\320
\210\321p!\210A\211\204
\310*\207" [directory match file --dolist-tail-- enable-local-eval enable-local-variables directory-files t nil file-
directory-p message "Updating file `%s" :safe find-file copyright-fix-years copyright-update save-buffer kill-buffer
inhibit-read-only fix] 6 (#$. 9815) "DDirectory: \nMFileNames matching (regexp): ")
(provide 'copyright)
```

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(at your option) any later version.
```

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```

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```

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```
<program> Copyright (C) <year> <name of author>
This program 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, your program's commands might be different; for a GUI interface, you would use an "about box".

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```
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```

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```

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```

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Why Software Should Be Free

by Richard Stallman

(Version of April 24, 1992)

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## Introduction

\*\*\*\*\*

The existence of software inevitably raises the question of how decisions about its use should be made. For example, suppose one individual who has a copy of a program meets another who would like a copy. It is possible for them to copy the program; who should decide whether this is done? The individuals involved? Or another party, called the "owner"?

Software developers typically consider these questions on the assumption that the criterion for the answer is to maximize developers' profits. The political power of business has led to the government adoption of both this criterion and the answer proposed by the developers: that the program has an owner, typically a corporation associated with its development.

I would like to consider the same question using a different criterion: the prosperity and freedom of the public in general.

This answer cannot be decided by current law--the law should conform to ethics, not the other way around. Nor does current practice decide this question, although it may suggest possible answers. The only way to judge is to see who is helped and who is hurt by recognizing owners of software, why, and how much. In other words, we should perform a cost-benefit analysis on behalf of society as a whole, taking account of individual freedom as well as production of material goods.

In this essay, I will describe the effects of having owners, and show that the results are detrimental. My conclusion is that programmers have the duty to encourage others to share, redistribute, study and improve the software we write: in other words, to write "free" software.(1)

## How Owners Justify Their Power

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Those who benefit from the current system where programs are property offer two arguments in support of their claims to own programs: the emotional argument and the economic argument.

The emotional argument goes like this: "I put my sweat, my heart, my



soul into this program. It comes from \*me\*, it's \*mine\*!"

This argument does not require serious refutation. The feeling of attachment is one that programmers can cultivate when it suits them; it is not inevitable. Consider, for example, how willingly the same programmers usually sign over all rights to a large corporation for a salary; the emotional attachment mysteriously vanishes. By contrast, consider the great artists and artisans of medieval times, who didn't even sign their names to their work. To them, the name of the artist was not important. What mattered was that the work was done--and the purpose it would serve. This view prevailed for hundreds of years.

The economic argument goes like this: "I want to get rich (usually described inaccurately as `making a living'), and if you don't allow me to get rich by programming, then I won't program. Everyone else is like me, so nobody will ever program. And then you'll be stuck with no programs at all!" This threat is usually veiled as friendly advice from the wise.

I'll explain later why this threat is a bluff. First I want to address an implicit assumption that is more visible in another formulation of the argument.

This formulation starts by comparing the social utility of a proprietary program with that of no program, and then concludes that proprietary software development is, on the whole, beneficial, and should be encouraged. The fallacy here is in comparing only two outcomes--proprietary software vs. no software--and assuming there are no other possibilities.

Given a system of intellectual property, software development is usually linked with the existence of an owner who controls the software's use. As long as this linkage exists, we are often faced with the choice of proprietary software or none. However, this linkage is not inherent or inevitable; it is a consequence of the specific social/legal policy decision that we are questioning: the decision to have owners. To formulate the choice as between proprietary software vs. no software is begging the question.

#### The Argument against Having Owners

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The question at hand is, "Should development of software be linked with having owners to restrict the use of it?"

In order to decide this, we have to judge the effect on society of each of those two activities \*independently\*: the effect of developing the software (regardless of its terms of distribution), and the effect

of restricting its use (assuming the software has been developed). If one of these activities is helpful and the other is harmful, we would be better off dropping the linkage and doing only the helpful one.

To put it another way, if restricting the distribution of a program already developed is harmful to society overall, then an ethical software developer will reject the option of doing so.

To determine the effect of restricting sharing, we need to compare the value to society of a restricted (i.e., proprietary) program with that of the same program, available to everyone. This means comparing two possible worlds.

This analysis also addresses the simple counterargument sometimes made that "the benefit to the neighbor of giving him or her a copy of a program is cancelled by the harm done to the owner." This counterargument assumes that the harm and the benefit are equal in magnitude. The analysis involves comparing these magnitudes, and shows that the benefit is much greater.

To elucidate this argument, let's apply it in another area: road construction.

It would be possible to fund the construction of all roads with tolls. This would entail having toll booths at all street corners. Such a system would provide a great incentive to improve roads. It would also have the virtue of causing the users of any given road to pay for that road. However, a toll booth is an artificial obstruction to smooth driving--artificial, because it is not a consequence of how roads or cars work.

Comparing free roads and toll roads by their usefulness, we find that (all else being equal) roads without toll booths are cheaper to construct, cheaper to run, safer, and more efficient to use.(2) In a poor country, tolls may make the roads unavailable to many citizens. The roads without toll booths thus offer more benefit to society at less cost; they are preferable for society. Therefore, society should choose to fund roads in another way, not by means of toll booths. Use of roads, once built, should be free.

When the advocates of toll booths propose them as *\*merely\** a way of raising funds, they distort the choice that is available. Toll booths do raise funds, but they do something else as well: in effect, they degrade the road. The toll road is not as good as the free road; giving us more or technically superior roads may not be an improvement if this means substituting toll roads for free roads.

Of course, the construction of a free road does cost money, which the

public must somehow pay. However, this does not imply the inevitability of toll booths. We who must in either case pay will get more value for our money by buying a free road.

I am not saying that a toll road is worse than no road at all. That would be true if the toll were so great that hardly anyone used the road--but this is an unlikely policy for a toll collector. However, as long as the toll booths cause significant waste and inconvenience, it is better to raise the funds in a less obstructive fashion.

To apply the same argument to software development, I will now show that having "toll booths" for useful software programs costs society dearly: it makes the programs more expensive to construct, more expensive to distribute, and less satisfying and efficient to use. It will follow that program construction should be encouraged in some other way. Then I will go on to explain other methods of encouraging and (to the extent actually necessary) funding software development.

#### The Harm Done by Obstructing Software

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Consider for a moment that a program has been developed, and any necessary payments for its development have been made; now society must choose either to make it proprietary or allow free sharing and use. Assume that the existence of the program and its availability is a desirable thing.(3)

Restrictions on the distribution and modification of the program cannot facilitate its use. They can only interfere. So the effect can only be negative. But how much? And what kind?

Three different levels of material harm come from such obstruction:

- \* Fewer people use the program.
- \* None of the users can adapt or fix the program.
- \* Other developers cannot learn from the program, or base new work on it.

Each level of material harm has a concomitant form of psychosocial harm. This refers to the effect that people's decisions have on their subsequent feelings, attitudes and predispositions. These changes in people's ways of thinking will then have a further effect on their relationships with their fellow citizens, and can have material consequences.

The three levels of material harm waste part of the value that the

program could contribute, but they cannot reduce it to zero. If they waste nearly all the value of the program, then writing the program harms society by at most the effort that went into writing the program. Arguably a program that is profitable to sell must provide some net direct material benefit.

However, taking account of the concomitant psychosocial harm, there is no limit to the harm that proprietary software development can do.

#### Obstructing Use of Programs

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The first level of harm impedes the simple use of a program. A copy of a program has nearly zero marginal cost (and you can pay this cost by doing the work yourself), so in a free market, it would have nearly zero price. A license fee is a significant disincentive to use the program. If a widely-useful program is proprietary, far fewer people will use it.

It is easy to show that the total contribution of a program to society is reduced by assigning an owner to it. Each potential user of the program, faced with the need to pay to use it, may choose to pay, or may forego use of the program. When a user chooses to pay, this is a zero-sum transfer of wealth between two parties. But each time someone chooses to forego use of the program, this harms that person without benefiting anyone. The sum of negative numbers and zeros must be negative.

But this does not reduce the amount of work it takes to \*develop\* the program. As a result, the efficiency of the whole process, in delivered user satisfaction per hour of work, is reduced.

This reflects a crucial difference between copies of programs and cars, chairs, or sandwiches. There is no copying machine for material objects outside of science fiction. But programs are easy to copy; anyone can produce as many copies as are wanted, with very little effort. This isn't true for material objects because matter is conserved: each new copy has to be built from raw materials in the same way that the first copy was built.

With material objects, a disincentive to use them makes sense, because fewer objects bought means less raw materials and work needed to make them. It's true that there is usually also a startup cost, a development cost, which is spread over the production run. But as long as the marginal cost of production is significant, adding a share of the development cost does not make a qualitative difference. And it does not require restrictions on the freedom of ordinary users.

However, imposing a price on something that would otherwise be free

is a qualitative change. A centrally-imposed fee for software distribution becomes a powerful disincentive.

What's more, central production as now practiced is inefficient even as a means of delivering copies of software. This system involves enclosing physical disks or tapes in superfluous packaging, shipping large numbers of them around the world, and storing them for sale. This cost is presented as an expense of doing business; in truth, it is part of the waste caused by having owners.

#### Damaging Social Cohesion

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Suppose that both you and your neighbor would find it useful to run a certain program. In ethical concern for your neighbor, you should feel that proper handling of the situation will enable both of you to use it. A proposal to permit only one of you to use the program, while restraining the other, is divisive; neither you nor your neighbor should find it acceptable.

Signing a typical software license agreement means betraying your neighbor: "I promise to deprive my neighbor of this program so that I can have a copy for myself." People who make such choices feel internal psychological pressure to justify them, by downgrading the importance of helping one's neighbors--thus public spirit suffers. This is psychosocial harm associated with the material harm of discouraging use of the program.

Many users unconsciously recognize the wrong of refusing to share, so they decide to ignore the licenses and laws, and share programs anyway. But they often feel guilty about doing so. They know that they must break the laws in order to be good neighbors, but they still consider the laws authoritative, and they conclude that being a good neighbor (which they are) is naughty or shameful. That is also a kind of psychosocial harm, but one can escape it by deciding that these licenses and laws have no moral force.

Programmers also suffer psychosocial harm knowing that many users will not be allowed to use their work. This leads to an attitude of cynicism or denial. A programmer may describe enthusiastically the work that he finds technically exciting; then when asked, "Will I be permitted to use it?", his face falls, and he admits the answer is no. To avoid feeling discouraged, he either ignores this fact most of the time or adopts a cynical stance designed to minimize the importance of it.

Since the age of Reagan, the greatest scarcity in the United States is not technical innovation, but rather the willingness to work together

for the public good. It makes no sense to encourage the former at the expense of the latter.

### Obstructing Custom Adaptation of Programs

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The second level of material harm is the inability to adapt programs. The ease of modification of software is one of its great advantages over older technology. But most commercially available software isn't available for modification, even after you buy it. It's available for you to take it or leave it, as a black box--that is all.

A program that you can run consists of a series of numbers whose meaning is obscure. No one, not even a good programmer, can easily change the numbers to make the program do something different.

Programmers normally work with the "source code" for a program, which is written in a programming language such as Fortran or C. It uses names to designate the data being used and the parts of the program, and it represents operations with symbols such as '+' for addition and '-' for subtraction. It is designed to help programmers read and change programs. Here is an example; a program to calculate the distance between two points in a plane:

```
float
distance (p0, p1)
 struct point p0, p1;
{
 float xdist = p1.x - p0.x;
 float ydist = p1.y - p0.y;
 return sqrt (xdist * xdist + ydist * ydist);
}
```

Here is the same program in executable form, on the computer I normally use:

```
1314258944 -232267772 -231844864 1634862
1411907592 -231844736 2159150 1420296208
-234880989 -234879837 -234879966 -232295424
1644167167 -3214848 1090581031 1962942495
572518958 -803143692 1314803317
```

Source code is useful (at least potentially) to every user of a program. But most users are not allowed to have copies of the source code. Usually the source code for a proprietary program is kept secret by the owner, lest anybody else learn something from it. Users receive only the files of incomprehensible numbers that the computer will execute. This means that only the program's owner can change the

program.

A friend once told me of working as a programmer in a bank for about six months, writing a program similar to something that was commercially available. She believed that if she could have gotten source code for that commercially available program, it could easily have been adapted to their needs. The bank was willing to pay for this, but was not permitted to--the source code was a secret. So she had to do six months of make-work, work that counts in the GNP but was actually waste.

The MIT Artificial Intelligence lab (AI lab) received a graphics printer as a gift from Xerox around 1977. It was run by free software to which we added many convenient features. For example, the software would notify a user immediately on completion of a print job. Whenever the printer had trouble, such as a paper jam or running out of paper, the software would immediately notify all users who had print jobs queued. These features facilitated smooth operation.

Later Xerox gave the AI lab a newer, faster printer, one of the first laser printers. It was driven by proprietary software that ran in a separate dedicated computer, so we couldn't add any of our favorite features. We could arrange to send a notification when a print job was sent to the dedicated computer, but not when the job was actually printed (and the delay was usually considerable). There was no way to find out when the job was actually printed; you could only guess. And no one was informed when there was a paper jam, so the printer often went for an hour without being fixed.

The system programmers at the AI lab were capable of fixing such problems, probably as capable as the original authors of the program. Xerox was uninterested in fixing them, and chose to prevent us, so we were forced to accept the problems. They were never fixed.

Most good programmers have experienced this frustration. The bank could afford to solve the problem by writing a new program from scratch, but a typical user, no matter how skilled, can only give up.

Giving up causes psychosocial harm--to the spirit of self-reliance. It is demoralizing to live in a house that you cannot rearrange to suit your needs. It leads to resignation and discouragement, which can spread to affect other aspects of one's life. People who feel this way are unhappy and do not do good work.

Imagine what it would be like if recipes were hoarded in the same fashion as software. You might say, "How do I change this recipe to take out the salt?", and the great chef would respond, "How dare you insult my recipe, the child of my brain and my palate, by trying to tamper with it? You don't have the judgment to change my recipe and

make it work right!"

"But my doctor says I'm not supposed to eat salt! What can I do? Will you take out the salt for me?"

"I would be glad to do that; my fee is only \$50,000." Since the owner has a monopoly on changes, the fee tends to be large. "However, right now I don't have time. I am busy with a commission to design a new recipe for ship's biscuit for the Navy Department. I might get around to you in about two years."

### Obstructing Software Development

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The third level of material harm affects software development. Software development used to be an evolutionary process, where a person would take an existing program and rewrite parts of it for one new feature, and then another person would rewrite parts to add another feature; in some cases, this continued over a period of twenty years. Meanwhile, parts of the program would be "cannibalized" to form the beginnings of other programs.

The existence of owners prevents this kind of evolution, making it necessary to start from scratch when developing a program. It also prevents new practitioners from studying existing programs to learn useful techniques or even how large programs can be structured.

Owners also obstruct education. I have met bright students in computer science who have never seen the source code of a large program. They may be good at writing small programs, but they can't begin to learn the different skills of writing large ones if they can't see how others have done it.

In any intellectual field, one can reach greater heights by standing on the shoulders of others. But that is no longer generally allowed in the software field--you can only stand on the shoulders of the other people \*in your own company\*.

The associated psychosocial harm affects the spirit of scientific cooperation, which used to be so strong that scientists would cooperate even when their countries were at war. In this spirit, Japanese oceanographers abandoning their lab on an island in the Pacific carefully preserved their work for the invading U.S. Marines, and left a note asking them to take good care of it.

Conflict for profit has destroyed what international conflict spared. Nowadays scientists in many fields don't publish enough in their papers to enable others to replicate the experiment. They publish only enough



to let readers marvel at how much they were able to do. This is certainly true in computer science, where the source code for the programs reported on is usually secret.

#### It Does Not Matter How Sharing Is Restricted

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I have been discussing the effects of preventing people from copying, changing and building on a program. I have not specified how this obstruction is carried out, because that doesn't affect the conclusion. Whether it is done by copy protection, or copyright, or licenses, or encryption, or ROM cards, or hardware serial numbers, if it \*succeeds\* in preventing use, it does harm.

Users do consider some of these methods more obnoxious than others. I suggest that the methods most hated are those that accomplish their objective.

#### Software Should be Free

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I have shown how ownership of a program--the power to restrict changing or copying it--is obstructive. Its negative effects are widespread and important. It follows that society shouldn't have owners for programs.

Another way to understand this is that what society needs is free software, and proprietary software is a poor substitute. Encouraging the substitute is not a rational way to get what we need.

Vaclav Havel has advised us to "Work for something because it is good, not just because it stands a chance to succeed." A business making proprietary software stands a chance of success in its own narrow terms, but it is not what is good for society.

#### Why People Will Develop Software

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If we eliminate intellectual property as a means of encouraging people to develop software, at first less software will be developed, but that software will be more useful. It is not clear whether the overall delivered user satisfaction will be less; but if it is, or if we wish to increase it anyway, there are other ways to encourage development, just as there are ways besides toll booths to raise money for streets. Before I talk about how that can be done, first I want to question how much artificial encouragement is truly necessary.

Programming is Fun

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There are some lines of work that few will enter except for money; road construction, for example. There are other fields of study and art in which there is little chance to become rich, which people enter for their fascination or their perceived value to society. Examples include mathematical logic, classical music, and archaeology; and political organizing among working people. People compete, more sadly than bitterly, for the few funded positions available, none of which is funded very well. They may even pay for the chance to work in the field, if they can afford to.

Such a field can transform itself overnight if it begins to offer the possibility of getting rich. When one worker gets rich, others demand the same opportunity. Soon all may demand large sums of money for doing what they used to do for pleasure. When another couple of years go by, everyone connected with the field will deride the idea that work would be done in the field without large financial returns. They will advise social planners to ensure that these returns are possible, prescribing special privileges, powers and monopolies as necessary to do so.

This change happened in the field of computer programming in the past decade. Fifteen years ago, there were articles on "computer addiction": users were "onlining" and had hundred-dollar-a-week habits. It was generally understood that people frequently loved programming enough to break up their marriages. Today, it is generally understood that no one would program except for a high rate of pay. People have forgotten what they knew fifteen years ago.

When it is true at a given time that most people will work in a certain field only for high pay, it need not remain true. The dynamic of change can run in reverse, if society provides an impetus. If we take away the possibility of great wealth, then after a while, when the people have readjusted their attitudes, they will once again be eager to work in the field for the joy of accomplishment.

The question, "How can we pay programmers?", becomes an easier question when we realize that it's not a matter of paying them a fortune. A mere living is easier to raise.

#### Funding Free Software

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Institutions that pay programmers do not have to be software houses. Many other institutions already exist which can do this.

Hardware manufacturers find it essential to support software development even if they cannot control the use of the software. In

1970, much of their software was free because they did not consider restricting it. Today, their increasing willingness to join consortiums shows their realization that owning the software is not what is really important for them.

Universities conduct many programming projects. Today, they often sell the results, but in the 1970s, they did not. Is there any doubt that universities would develop free software if they were not allowed to sell software? These projects could be supported by the same government contracts and grants which now support proprietary software development.

It is common today for university researchers to get grants to develop a system, develop it nearly to the point of completion and call that "finished", and then start companies where they really finish the project and make it usable. Sometimes they declare the unfinished version "free"; if they are thoroughly corrupt, they instead get an exclusive license from the university. This is not a secret; it is openly admitted by everyone concerned. Yet if the researchers were not exposed to the temptation to do these things, they would still do their research.

Programmers writing free software can make their living by selling services related to the software. I have been hired to port the GNU C compiler to new hardware, and to make user-interface extensions to GNU Emacs. (I offer these improvements to the public once they are done.) I also teach classes for which I am paid.

I am not alone in working this way; there is now a successful, growing corporation which does no other kind of work. Several other companies also provide commercial support for the free software of the GNU system. This is the beginning of the independent software support industry-an industry that could become quite large if free software becomes prevalent. It provides users with an option generally unavailable for proprietary software, except to the very wealthy.

New institutions such as the Free Software Foundation can also fund programmers. Most of the foundation's funds come from users buying tapes through the mail. The software on the tapes is free, which means that every user has the freedom to copy it and change it, but many nonetheless pay to get copies. (Recall that "free software" refers to freedom, not to price.) Some users order tapes who already have a copy, as a way of making a contribution they feel we deserve. The Foundation also receives sizable donations from computer manufacturers.

The Free Software Foundation is a charity, and its income is spent on hiring as many programmers as possible. If it had been set up as a business, distributing the same free software to the public for the same

fee, it would now provide a very good living for its founder.

Because the Foundation is a charity, programmers often work for the Foundation for half of what they could make elsewhere. They do this because we are free of bureaucracy, and because they feel satisfaction in knowing that their work will not be obstructed from use. Most of all, they do it because programming is fun. In addition, volunteers have written many useful programs for us. (Recently even technical writers have begun to volunteer.)

This confirms that programming is among the most fascinating of all fields, along with music and art. We don't have to fear that no one will want to program.

### What Do Users Owe to Developers?

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There is a good reason for users of software to feel a moral obligation to contribute to its support. Developers of free software are contributing to the users' activities, and it is both fair and in the long term interest of the users to give them funds to continue.

However, this does not apply to proprietary software developers, since obstructionism deserves a punishment rather than a reward.

We thus have a paradox: the developer of useful software is entitled to the support of the users, but any attempt to turn this moral obligation into a requirement destroys the basis for the obligation. A developer can either deserve a reward or demand it, but not both.

I believe that an ethical developer faced with this paradox must act so as to deserve the reward, but should also entreat the users for voluntary donations. Eventually the users will learn to support developers without coercion, just as they have learned to support public radio and television stations.

### What Is Software Productivity?

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If software were free, there would still be programmers, but perhaps fewer of them. Would this be bad for society?

Not necessarily. Today the advanced nations have fewer farmers than in 1900, but we do not think this is bad for society, because the few deliver more food to the consumers than the many used to do. We call this improved productivity. Free software would require far fewer programmers to satisfy the demand, because of increased software productivity at all levels:

- \* Wider use of each program that is developed.
- \* The ability to adapt existing programs for customization instead of starting from scratch.
- \* Better education of programmers.
- \* The elimination of duplicate development effort.

Those who object to cooperation because it would result in the employment of fewer programmers, are actually objecting to increased productivity. Yet these people usually accept the widely-held belief that the software industry needs increased productivity. How is this?

"Software productivity" can mean two different things: the overall productivity of all software development, or the productivity of individual projects. Overall productivity is what society would like to improve, and the most straightforward way to do this is to eliminate the artificial obstacles to cooperation which reduce it. But researchers who study the field of "software productivity" focus only on the second, limited, sense of the term, where improvement requires difficult technological advances.

#### Is Competition Inevitable?

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Is it inevitable that people will try to compete, to surpass their rivals in society? Perhaps it is. But competition itself is not harmful; the harmful thing is \*combat\*.

There are many ways to compete. Competition can consist of trying to achieve ever more, to outdo what others have done. For example, in the old days, there was competition among programming wizards--competition for who could make the computer do the most amazing thing, or for who could make the shortest or fastest program for a given task. This kind of competition can benefit everyone, \*as long as\* the spirit of good sportsmanship is maintained.

Constructive competition is enough competition to motivate people to great efforts. A number of people are competing to be the first to have visited all the countries on Earth; some even spend fortunes trying to do this. But they do not bribe ship captains to strand their rivals on desert islands. They are content to let the best person win.

Competition becomes combat when the competitors begin trying to impede each other instead of advancing themselves--when "Let the best person win" gives way to "Let me win, best or not." Proprietary

software is harmful, not because it is a form of competition, but because it is a form of combat among the citizens of our society.

Competition in business is not necessarily combat. For example, when two grocery stores compete, their entire effort is to improve their own operations, not to sabotage the rival. But this does not demonstrate a special commitment to business ethics; rather, there is little scope for combat in this line of business short of physical violence. Not all areas of business share this characteristic. Withholding information that could help everyone advance is a form of combat.

Business ideology does not prepare people to resist the temptation to combat the competition. Some forms of combat have been made banned with anti-trust laws, truth in advertising laws, and so on, but rather than generalizing this to a principled rejection of combat in general, executives invent other forms of combat which are not specifically prohibited. Society's resources are squandered on the economic equivalent of factional civil war.

"Why Don't You Move to Russia?"

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In the United States, any advocate of other than the most extreme form of laissez-faire selfishness has often heard this accusation. For example, it is leveled against the supporters of a national health care system, such as is found in all the other industrialized nations of the free world. It is leveled against the advocates of public support for the arts, also universal in advanced nations. The idea that citizens have any obligation to the public good is identified in America with Communism. But how similar are these ideas?

Communism as was practiced in the Soviet Union was a system of central control where all activity was regimented, supposedly for the common good, but actually for the sake of the members of the Communist party. And where copying equipment was closely guarded to prevent illegal copying.

The American system of intellectual property exercises central control over distribution of a program, and guards copying equipment with automatic copying protection schemes to prevent illegal copying.

By contrast, I am working to build a system where people are free to decide their own actions; in particular, free to help their neighbors, and free to alter and improve the tools which they use in their daily lives. A system based on voluntary cooperation, and decentralization.

Thus, if we are to judge views by their resemblance to Russian Communism, it is the software owners who are the Communists.

## The Question of Premises

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I make the assumption in this paper that a user of software is no less important than an author, or even an author's employer. In other words, their interests and needs have equal weight, when we decide which course of action is best.

This premise is not universally accepted. Many maintain that an author's employer is fundamentally more important than anyone else. They say, for example, that the purpose of having owners of software is to give the author's employer the advantage he deserves--regardless of how this may affect the public.

It is no use trying to prove or disprove these premises. Proof requires shared premises. So most of what I have to say is addressed only to those who share the premises I use, or at least are interested in what their consequences are. For those who believe that the owners are more important than everyone else, this paper is simply irrelevant.

But why would a large number of Americans accept a premise which elevates certain people in importance above everyone else? Partly because of the belief that this premise is part of the legal traditions of American society. Some people feel that doubting the premise means challenging the basis of society.

It is important for these people to know that this premise is not part of our legal tradition. It never has been.

Thus, the Constitution says that the purpose of copyright is to "promote the progress of science and the useful arts." The Supreme Court has elaborated on this, stating in 'Fox Film vs. Doyal' that "The sole interest of the United States and the primary object in conferring the [copyright] monopoly lie in the general benefits derived by the public from the labors of authors."

We are not required to agree with the Constitution or the Supreme Court. (At one time, they both condoned slavery.) So their positions do not disprove the owner supremacy premise. But I hope that the awareness that this is a radical right-wing assumption rather than a traditionally recognized one will weaken its appeal.

## Conclusion

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We like to think that our society encourages helping your neighbor; but each time we reward someone for obstructionism, or admire them for

the wealth they have gained in this way, we are sending the opposite message.

Software hoarding is one form of our general willingness to disregard the welfare of society for personal gain. We can trace this disregard from Ronald Reagan to Jim Bakker, from Ivan Boesky to Exxon, from failing banks to failing schools. We can measure it with the size of the homeless population and the prison population. The antisocial spirit feeds on itself, because the more we see that other people will not help us, the more it seems futile to help them. Thus society decays into a jungle.

If we don't want to live in a jungle, we must change our attitudes. We must start sending the message that a good citizen is one who cooperates when appropriate, not one who is successful at taking from others. I hope that the free software movement will contribute to this: at least in one area, we will replace the jungle with a more efficient system which encourages and runs on voluntary cooperation.

----- Footnotes -----

(1) The word "free" in "free software" refers to freedom, not to price; the price paid for a copy of a free program may be zero, or small, or (rarely) quite large.

(2) The issues of pollution and traffic congestion do not alter this conclusion. If we wish to make driving more expensive to discourage driving in general, it is disadvantageous to do this using toll booths, which contribute to both pollution and congestion. A tax on gasoline is much better. Likewise, a desire to enhance safety by limiting maximum speed is not relevant; a free access road enhances the average speed by avoiding stops and delays, for any given speed limit.

(3) One might regard a particular computer program as a harmful thing that should not be available at all, like the Lotus Marketplace database of personal information, which was withdrawn from sale due to public disapproval. Most of what I say does not apply to this case, but it makes little sense to argue for having an owner on the grounds that the owner will make the program less available. The owner will not make it *\*completely\** unavailable, as one would wish in the case of a program whose use is considered destructive.

Copyright (C) 2007-2013 Free Software Foundation, Inc.

See the end of the file for license conditions.

## NOTES ON COPYRIGHTS AND LICENSES

Some terminology:



A "copyright notice" consists of one or a few lines of this format:

"Copyright (C) 2006, 2007 Free Software Foundation, Inc."

A "license notice" is a statement of permissions, and is usually much longer, eg the text "GNU Emacs is free software...".

Summary for the impatient:

1. Don't add code to Emacs written by someone other than yourself without thinking about the legal aspect. Even if the changes are trivial, consider if they combine with previous changes by the same author to make a non-trivial total. If so, make sure they have an assignment. If adding a whole file adjust the copyright statements in the file.

2. When installing code written by someone else, the ChangeLog entry should be in the name of the author of the code, not the person who installs it. Also use bzd commit's "--author" option.

Do not install any of your own changes in the same commit.

3. With images, add the legal info to a README file in the directory containing the image.

4. If you add a lot of text to a previously trivial file that had no legal notices, consider if you should add a copyright statement.

5. Please don't just add an FSF copyright without checking that is the right thing to do.

Every non-trivial file distributed through the Emacs repository should be self-explanatory in terms of copyright and license. This includes files that are not distributed in Emacs releases (for example, the admin/ directory), because the whole Emacs repository is publicly available.

The definition of triviality is a little vague, but a rule of thumb is that any file with less than 15 lines of actual content is trivial. If a file is auto-generated (eg ldefs-boot.el) from another one in the repository, then it does not really matter about adding a copyright statement to the generated file.

Legal advice says that we could, if we wished, put a license notice even in trivial files, because copyright law in general looks at the overall work as a whole. It is not `_necessary_` to do so, and rms prefers that we do not. This means one needs to take care that trivial

files do not grow and become non-trivial without having a license added. NB consequently, if you add a lot of text to a small file, consider whether your changes have made the file worthy of a copyright notice, and if so, please add one.

It can be helpful to put a reminder comment at the start of a trivial file, eg: "add a license notice if this grows to > 10 lines of code".

The years in the copyright notice should be updated every year (see file "years" in this directory). The PDF versions of refcards etc should display copyright notices (an exception to the rule about "generated" files), but these can just display the latest year. The full list of years should be kept in comments in the source file. If these are distributed in the repository, check in a regenerated version when the tex files are updated.

Copyright changes should be propagated to any associated repositories (eg Gnus, MH-E), but I think in every case this happens automatically (?).

All README (and other such text files) that are non-trivial should contain copyright statements and GPL license notices, exactly as .el files do (see e.g. README in the top-level directory). Before 2007, we used a simple, short statement permitting copying and modification provided legal notices were retained. In Feb 2007 we switched to the standard GPL text, on legal advice. Some older text files in etc/ should, however, keep their current licenses (see below for list).

For image files, the copyright and license details should be recorded in a README file in each directory with images. (Legal advice says that we need not add notices to each image file individually, if they allow for that.). It is recommended to use the word "convert" to describe the automatic process of changing an image from one format to another (<http://lists.gnu.org/archive/html/emacs-devel/2007-02/msg00618.html>).

When installing a file with an "unusual" license (after checking first it is ok), put a copy of the copyright and license in the file (if possible. It's ok if this makes the file incompatible with its original format, if it can still be used by Emacs), or in a README file in the relevant directory.

The vast majority of files are copyright FSF and distributed under the GPL. A few files (mainly related to language and charset support) are copyright AIST alone, or both AIST and FSF. (Contact Kenichi Handa with questions about legal issues in such files.) In all these cases, the copyright years in each file should be updated each year.

There are some exceptions to the points in the previous paragraph, and these are listed below for reference, together with any files where the copyright needs to be updated in "unusual" ways.

If you find any other such cases, please consult to check they are ok, and note them in this file. This includes missing copyright notices, and "odd" copyright holders. In most cases, individual authors should not appear in copyright statements. Either the copyright has been assigned (check copyright.list) to the FSF (in which case the original author should be removed and the year(s) transferred to the FSF); or else it is possible the file should not be in Emacs at all (please report!).

Note that it seems painfully clear that one cannot rely on commit logs, or even ChangeLogs, for older changes. People often installed changes from others, without recording the true authorship.

[For reference, most of these points were established via email with rms, 2007/1, "Copyright years".

In March 2011, information on some files no longer included was removed. Consult older versions of this document if interested.]

```
lisp/version.el # emacs-copyright
lib-src/ebrowse.c # version
lib-src/etags.c # print_version
lib-src/rcs2log # Copyright
Cocoa/Emacs.base/Contents/Info.plist
Cocoa/Emacs.base/Contents/Resources/English.lproj/InfoPlist.strings
GNUstep/Emacs.base/Resources/Info-gnustep.plist
`set-copyright' in admin.el will do all the above.
```

```
aclocal.m4
configure
m4/*.m4
- copyright FSF, with unlimited permission to copy, distribute and modify
```

```
lib/Makefile.in
- copyright FSF, with MIT-like license
```

```
build-aux/install-sh
- this file is copyright MIT, which is OK. Leave the copyright alone.
```

```
etc/refcards/*.tex
also update the \def\year macro for the latest year.
```

```
etc/future-bug
```

- doesn't need a humorless disclaimer, because Karl Fogel says we can consider it part of Emacs, and he has a blander disclaimer for Emacs changes. (email to rgm "[Emacs-commit] emacs/etc future-bug", 2007028)

etc/letter.pbm,letter.xpm

- trivial, no notice needed.

<<http://lists.gnu.org/archive/html/emacs-devel/2007-02/msg00324.html>>

etc/FTP, ORDERS

- trivial (at time of writing), no license needed

etc/GNU, INTERVIEW, LINUX-GNU, MOTIVATION, SERVICE, THE-GNU-PROJECT, WHY-FREE

rms: "These are statements of opinion or testimony. Their licenses should permit verbatim copying only. Please don't change the licenses that they have. They are distributed with Emacs but they are not part of Emacs."

etc/HELLO

standard notices. Just a note that although the file itself is not really copyrightable, in the wider context of it being part of Emacs (and written by those with assignments), a standard notice is fine.

etc/MAILINGLISTS

rms: simple license is fine for this file

leim/CXTERM-DIC/4Corner.tit, ARRAY30.tit, CCDOSPY.tit, ECDICT.tit, ETZY.tit, PY-b5.tit, Punct-b5.tit, Punct.tit, QJ-b5.tit, QJ.tit, SW.tit, TONEPY.tit, ZOZY.tit

- leave the copyrights alone.

leim/MISC-DIC/CTLau-b5.html, CTLau.html, cangjie-table.b5, cangjie-table.cns, pinyin.map, ziranma.cin

- leave the copyright alone.

Note that pinyin.map, ziranma.cin (and hence the generated leim/quail/PY.el, ZIRANMA.el) are under GPLv1 or later.

leim/SKK-DIC/SKK-JISYO.L

ja-dic/ja-dic.el

(the latter is auto-generated from the former). Leave the copyright alone.

lib-src/etags.c

Copyright information is duplicated in etc/ETAGS.README. Update that file too.

Until 2007 etags.c was described as being copyright FSF and Ken Arnold.

After some investigation in Feb 2007, then to the best of our knowledge we believe that the original 1984 Emacs version was based on the version in BSD4.2. See for example this 1985 post from Ken Arnold: <[http://groups.google.com/group/mod.sources/browse\\_thread/thread/ffe5c55845a640a9](http://groups.google.com/group/mod.sources/browse_thread/thread/ffe5c55845a640a9)>  
I have received enough requests for the current source to ctags to post it. Here is the latest version (what will go out with 4.3, modulo any bugs fixed during the beta period). It is the 4.2 ctags with recognition of yacc and lex tags added.

See also a 1984 version of ctags (no copyright) posted to net.sources: <<http://groups.google.com/group/net.sources/msg/a21b6c21be12a98d>>  
Version of etags.c in emacs-16.56 duplicates comment typos.

Accordingly, in Feb 2007 we added a 1984 copyright for the University of California and a revised BSD license. The terms of this require that the full license details be available in binary distributions - hence the file etc/ETAGS.README. The fact that the --version output just says "Copyright <year> FSF" is apparently OK from a legal point of view.

`lisp/cedet/semantic/imenu.el`

- See <http://lists.gnu.org/archive/html/emacs-devel/2010-03/msg00410.html> in which Eric Ludlam established that the remaining contributions from authors other than himself were negligible.

`lisp/play/tetris.el`

- no special rules about the copyright. We note here that we believe (2007/1) there is no problem with our use of the name "tetris" or the concept.  
rms: "My understanding is that game rules as such are not copyrightable."  
<<http://lists.gnu.org/archive/html/emacs-devel/2007-01/msg00960.html>>  
rms: Legal advice is that we are ok and need not worry about this.

`lisp/net/tramp.el`

- there are also copyrights in the body of the file. Update these too.

`lwlib/`

rms (2007/02/17): "lwlib is not assigned to the FSF; we don't consider it part of Emacs. [...] Therefore non-FSF copyrights are ok in lwlib."

NB don't change the GPL version used for lwlib .c and .h files (see below).

FSF copyrights should only appear in files which have undergone non-trivial cumulative changes from the original versions in the Lucid Widget Library. NB this means that if you make non-trivial changes to

a file with no FSF copyright, you should add one. Also, if changes are reverted to the extent that a file becomes basically the same as the original version, the FSF copyright should be removed.

In my (rgm) opinion, as of Feb 2007, all the non-trivial files differ significantly from the original versions, with the exception of `lplib-Xm.h`. Most of the changes that were made to this file have subsequently been reverted. Therefore I removed the FSF copyright from this file (which is arguably too trivial to merit a notice anyway). I added FSF copyright to the following files which did not have them already: `Makefile.in`, `lplib-Xaw.c`, `lplib-int.h` (borderline), `lplib-utils.c` (borderline), `lplib.c`, `lplib.h`.

Copyright years before the advent of public CVS in 2001 were those when I judged (from the CVS logs) that non-trivial amounts of change had taken place. I also adjusted the existing FSF years in `xlwmenu.c`, `xlwmenu.h`, and `xlwmenuP.h` on the same basis.

Note that until Feb 2007, the following files in `lplib` were lacking notices: `lplib-int.h`, `lplib.h`, `lplib-Xaw.h`, `lplib-Xlw.h`, `lplib-utils.h`

The following files did not list a Lucid copyright: `xlwmenu.h`, `xlwmenuP.h`.

To the best of our knowledge, all the code files in `lplib` were originally part of the Lucid Widget Library, even if they did not say so explicitly. For example, they were all present in Lucid Emacs 19.1 in 1992. The exceptions are the two Xaw files, which did not appear till Lucid Emacs 19.9 in 1994. The file `lplib-Xaw.h` is too trivial to merit a copyright notice, but would presumably have the same one as `lplib-Xaw.c`. We have been unable to find a true standalone version of LWL, if there was such a thing, to check definitively.

To clarify the situation, in Feb 2007 we added Lucid copyrights and GPL notices to those files lacking either that were non-trivial, namely: `lplib-int.h`, `lplib.h`, `xlwmenu.h`, `xlwmenuP.h`. This represents our best understanding of the legal status of these files. We also clarified the notices in `Makefile.in`, which was originally the Makefile auto-generated from Lucid's `Imakefile`.

As of Feb 2007, the following files are considered too trivial for notices: `lplib-Xaw.h`, `lplib-Xlw.h`, `lplib-utils.h`.

The version of `lplib` first installed in Emacs seems to be the same as that used in Lucid Emacs 19.8 (released 6-sep-93); except the two Xaw files, which did not appear till Athena support was added in Lucid Emacs 19.9. In Lucid Emacs 19.1, all files were under GPLv1 or later, but by Lucid Emacs 19.8, `lplib.c` and `xlwmenu.c` had been switched to v2

or later. These are the versions that were first installed in Emacs.  
So in GNU Emacs, these two files have been under v2 or later since  
1994.

It seems that it was the intention of Lucid to use v1 or later  
(excepting the two files mentioned previously); so this is the license  
we have used when adding notices to code that did not have notices  
originally. Although we have the legal right to switch to v2 or later,  
rms prefers that we do not do so.

doc/\*/doclicense.texi

- leave the copyright alone in this imported file.

doc/\*/\*.texi - All manuals should be under GFDL (but see below), and  
should include a copy of it, so that they can be distributed  
separately. faq.texi has a different license, for some reason no-one  
can remember.

<http://lists.gnu.org/archive/html/emacs-devel/2007-04/msg00583.html>

<http://lists.gnu.org/archive/html/emacs-devel/2007-04/msg00618.html>

doc/misc/mh-e.texi is dual-licensed (GPL and GFDL) per agreement with  
FSF (reconfirmed by rms Aug 25 2008). Discussion with  
licensing@fsf.org starting on Thu, 07 Aug 2003 with subject:  
"[gnu.org #58812] Changing license of MH-E manual"

msdos/is\_exec.c, sigaction.c - these files are copyright DJ Delorie.

Leave the copyrights alone. Leave the Eli Zaretskii copyright in  
is\_exec.c alone. See the msdos/README file for the legal history of  
these files.

msdos/sed\*.inp - These files are copyright FSF and distributed under  
an MIT-like license.

oldXMenu/

Keep the "copyright.h" method used by X11, rather than moving the  
licenses into the files. Note that the original X10.h did not use  
copyright.h, but had an explicit notice, which we retain.

If you make non-trivial changes to a file which does not have an FSF  
notice, add one and a GPL notice (as per Activate.c). If changes to a  
file are reverted such that it becomes essentially the same as the  
original X11 version, remove the FSF notice and GPL.

Only the files which differ significantly from the original X11  
versions should have FSF copyright and GPL notices. At time of writing

(Feb 2007), this is: Activate.c, Create.c, Internal.c. I (rgm) established this by diff'ing the current files against those in X11R1, and when I found significant differences looking in the ChangeLog for the years they originated (the CVS logs are truncated before 1999). I therefore removed the FSF notices (added in 200x) from the other files. There are some borderline cases IMO: AddSel.c, InsSel.c, XMakeAssoc.c, XMenu.h. For these I erred on the side of NOT adding FSF notices.

With regards to whether the files we have changed should have GPL added or not, rms says (2007-02-25, "oldXmenu issues"):

It does not make much difference, because oldXmenu is obsolete except for use in Emacs (and it is not normally used in Emacs any more either).

So, to make things simple, please put our changes under the GPL.

insque.c had no copyright notice until 2005. The version of insque.c added to Emacs 1992-01-27 is essentially the same as insremque.c added to glibc three days later by Roland McGrath, with an FSF copyright and GPL, but no ChangeLog entry:

<<http://sources.redhat.com/cgi-bin/cvsweb.cgi/~checkout~/libc/misc/insremque.c?rev=1.1&cvsroot=glibc>>

To the best of his recollection, McGrath (who has a copyright assignment) was the author of this file (email from roland at frob.com to rms, 2007-02-23, "Where did insque.c come from?"). The FSF copyright and GPL in this file are therefore correct as far as we understand it.

Imakefile had no legal info in Feb 2007, but was obviously based on the X11 version (which also had no explicit legal info). As it was unused, I removed it. It would have the same MIT copyright as Makefile.in does now.

src/gmalloc.c

- contains numerous copyrights from the GNU C library. Leave them alone.

src/ndir.h

- see comments below. This file is OK to be released with Emacs 22, but we may want to revisit it afterwards.

\*\* Some notes on resolved issues, for historical information only

etc/TERMS

rms: "surely written either by me or by ESR. (If you can figure out



which year, I can probably tell you which.) Either way, we have papers for it." It was present in Emacs-16.56 (15-jul-85). rms: "Then I conclude it was written by me."

lisp/term/README

- had no copyright notice till Feb 2007. ChangeLog.3 suggests it was written by Eric Raymond. When asked by rms on 14 Feb 2007 he said:

I don't remember writing it, but it reads like my prose and I believe I wrote the feature(s) it's describing. So I would have been the likeliest person to write it.

Odds are that I did, but I'm not certain.

Accordingly, FSF copyright was added.

src/unexhp9k800.c

<http://lists.gnu.org/archive/html/emacs-devel/2007-02/msg00138.html>

- briefly removed due to legal uncertainty Jan-Mar 2007. The relevant assignment is under "hp9k800" in copyright.list. File was written by John V. Morris at HP, and disclaimed by the author and HP. So this file is public domain.

lisp/progmodes/python.el

Dave Love alerted us to a potential legal problem:

<http://lists.gnu.org/archive/html/emacs-pretest-bug/2007-04/msg00459.html>

On consultation with a lawyer, we found there was no problem:

<http://lists.gnu.org/archive/html/emacs-devel/2007-05/msg00466.html>

\*\* Issues that are "fixed" for the release of Emacs 22, but we may wish to revisit later in more detail

admin/check-doc-strings

File says it's in the public domain, but that might not make it so.

etc/e/eterm-color.ti

src/ndir.h

On legal advice from Matt Norwood, the following comment was added to these files in Feb/Mar 2007:

The code here is forced by the interface, and is not subject to copyright, constituting the only possible expression of the algorithm in this format.

With the addition of this notice, these files are OK for the upcoming Emacs-22 release. Post-release, we can revisit this issue and possibly add a list of all authors who have changed these files. (details in email from Matt Norwood to rms, 2007/02/03).

src/s/aix3-2.h, hpux8.h, hpux9.h, irix5-0.h, netbsd.h, usg5-4-2.h  
[note some of these have since been merged into other files]  
- all these (not obviously trivial) files were missing copyrights till Feb 2007, when FSF copyright was added. Matt Norwood advised:

For now, I think the best policy is to assume that we do have assignments from the authors (I recall many of these header files as having been originally written by rms), and to attach an FSF copyright with GPL notice. We can amend this if and when we complete the code audit. Any additions to these files by non-assigned authors are arguably "de minimis" contributions to Emacs: small changes or suggestions to a work that are subsumed in the main authors' copyright in the entire work.

Here is my (rgm) take on the details of the above files:

? irix5-0.h

I would say started non-trivial (1993, jimb, heavily based on irix4-0.h). A few borderline non-tiny changes since.

usg5-4-2.h

started non-trivial, but was heavily based on usg5-4.h, which was and is copyright FSF. only tiny changes since installed.

aix3-2.h, hpux8.h, hpux9.h, netbsd.h

started trivial, grown in tiny changes.

netbsd.h:

Roland McGrath said to rms (2007/02/17): "I don't really remember anything about it. If I put it in without other comment, then probably I wrote it myself."

Someone might want to tweak the copyright years (for dates before 2001) that I used in all these files.

Note: erring on the side of caution, I also added notices to some files I thought might be considered non-trivial (if one includes comment) in s/:

aix4-1.h hpux10.h irix6-5.h  
sol2.h

(everything with > 30 non-blank lines, which at least is some kind of

system)

\*\*\* These are copyright issues that need not be fixed until after Emacs 22 is released (though if they can be fixed before, that is obviously good):

Is it OK to just `bzip2 remove' a file for legal reasons, or is something more drastic needed? A removed file is still available from the repository, if suitable options are applied. (This issue obviously does not affect a release).

rms: will ask lawyer

Make sure that all files with non-standard copyrights or licenses are noted in this file.

REMOVED etc/gnu.xpm, nt/icons/emacs21.ico, nt/icons/sink.ico  
- Restore if find legal info. emacs21.ico is not due to Davenport. Geoff Voelker checked but could not find a record of where it came from.

etc/images

Image files from GTK, Gnome are under GPLv2 (no "or later"?). RMS will contact image authors in regards to future switch to v3.

etc/TUTORIAL\* (translations)

switch to GPL (see english TUTORIAL)

rms: "We can leave the TUTORIAL translations alone until their maintainers update them."

Can adapt short license text from end of GPL translations at:

<http://www.gnu.org/licenses/translations.html>

Only a few sentences around the license notice need changing from previous version.

Done: TUTORIAL.eo

\*\*\* These are copyright issues still to be addressed:

None known.

\*\* NOTES ON RELICENSING TO GPL3

The EMACS\_22\_BASE branch was changed to GPLv3 (or later) 2007/07/25.

Some notes:

(see <http://lists.gnu.org/archive/html/emacs-devel/2007-07/msg01431.html>)

1. There are some files in the Emacs tree which are not part of Emacs (eg those included from Gnulib). These are all copyright FSF and (at time of writing) GPL >= 2. rms says may as well leave the licenses of these alone (may import them from Gnulib again). These are:

Gnulib:

build-aux/compile  
build-aux/config.guess  
build-aux/config.sub  
build-aux/depcomp  
build-aux/missing  
build-aux/move-if-change  
build-aux/snippet/\_Noreturn.h  
build-aux/snippet/arg-nonnull.h  
build-aux/snippet/c++defs.h  
build-aux/snippet/warn-on-use.h  
doc/man/texinfo.tex  
lib/\*.ch  
lib/gnulib.mk  
src/gmalloc.c  
src/termcap.c  
src/tparam.c

Note `_not_` included in the above are `src/regex.{c,h}` (rms: "That forked version is only in Emacs, so definitely relicense that."), and `oldXMenu/insque.c` (rms: "We wrote that specifically for Emacs, so definitely relicense that.").

2. The files that are copyright FSF and AIST, or AIST alone, should be and were updated, ditto the oldXMenu files with FSF copyright, and `msdos/is_exec.c` and `sigaction.c`.

3. `lplib/`

Files originally in Lucid Widget Library were left alone (excludes `ChangeLog`, etc), ie remain under GPL v1 or later, or v2 or later. (rms: "We may as well leave this alone, since we are never going to change it much.")

4. There are some files where the FSF holds no copyright. These were left alone:

`leim/MISC-DIC/CTLau-b5.html` >= v2

leim/MISC-DIC/CTLau.html >= v2  
(above included in lisp/international/titdic-cnv.el)  
leim/MISC-DIC/pinyin.map >= v1  
leim/MISC-DIC/ziranma.cin >= v1  
leim/SKK-DIC/SKK-JISYO.L >= v2  
leim/SKK-DIC/README >= v2  
leim/ja-dic/ja-dic.el >= v2

5. At time of writing, some non-Emacs icons included from Gnome remain under GPLv2 (no "or later"). See:

etc/images/gnus/README  
etc/images/mail/README  
etc/images/README  
nt/icons/README

This file is part of GNU Emacs.

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GNU Emacs 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 GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with GNU Emacs. If not, see <<http://www.gnu.org/licenses/>>.

<!doctype HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"><html>

<head>

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

<meta http-equiv="Content-Language" content="en-us">

<meta name="VI60\_defaultClientScript" content="JavaScript">

<meta name="GENERATOR" content="Microsoft FrontPage 5.0">

<meta name="keywords" content="Unicode Standard, copyright">

<meta name="ProgId" content="FrontPage.Editor.Document">

```

<title>Unicode Terms of Use</title>

<link rel="stylesheet" type="text/css"

href="http://www.unicode.org/webscripts/standard_styles.css">

</head>

<body text="#330000">

<table width="100%" cellpadding="0" cellspacing="0" border="0">

<tr>

<td colspan="2">

<table width="100%" border="0" cellpadding="0" cellspacing="0">

<tr>

<td class="icon"> <a class="bar"
href="http://www.unicode.org/copyright.html">Terms of
Use</td>
<td class="bar">Home
| Site Map |
Search </td>
</tr>
</table>
</td>
</tr>
<tr>
<td colspan="2" class="gray"> </td>
</tr>
<tr>
<td valign="top" width="25%" class="navCol">
<table class="navColTable" border="0" width="100%" cellspacing="4"
cellpadding="0">
<tr>
<td class="navColTitle">Contents</td>
</tr>
<tr>
<td valign="top" class="navColCell">Unicode Copyright</td>
</tr>

```

```

<tr>
 <td valign="top" class="navColCell">Restricted Rights
 Legend</td>
</tr>
<tr>
 <td valign="top" class="navColCell">Warranties &
 Disclaimers</td>
</tr>
<tr>
 <td valign="top" class="navColCell">Waiver of Damages</td>
</tr>
<tr>
 <td valign="top" class="navColCell">Trademarks & Logos</td>
</tr>
<tr>
 <td valign="top" class="navColCell">Miscellaneous</td>
</tr>
<tr>
 <td valign="top" class="navColCell">Data Files and
 Software License Agreement (Exhibit 1)</td>
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 <td valign="top" class="navColCell"> </td>
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 <td class="navColTitle">Related Links</td>
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 <td valign="top" class="navColCell">
Trademark Policy</td>
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 <td valign="top" class="navColCell">
Unicode
 Policies</td>
 </tr>
 <tr>
 <td valign="top" class="navColCell"></td>
 </tr>
</table>

<!-- BEGIN CONTENTS -->

<td>

```

<blockquote>

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<table class="sidebar" align="right" width="50%" id="table1">

<tr>

<td class="sidebarTitle">Notice to End User: Terms of Use</td>

</tr>

<tr>

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</table>

<ol type="A">

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<ol>

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<tr>

<td><a href="http://www.unicode.org/copyright.html">

</a></td>

</tr>

</table>

<script language="Javascript" type="text/javascript"

src="http://www.unicode.org/webscripts/lastModified.js">

</script>

</center>

</div>

</td>

</tr>

</table>

</body>

</html>

;;; copyright.el --- update the copyright notice in current buffer

;; Copyright (C) 1991-1995, 1998, 2001-2013 Free Software Foundation,

;; Inc.

```

;; Author: Daniel Pfeiffer <occitan@esperanto.org>
;; Keywords: maint, tools

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;;; Commentary:

;; Allows updating the copyright year and above mentioned GPL version manually
;; or when saving a file.
;; Do (add-hook 'before-save-hook 'copyright-update), or use
;; M-x customize-variable RET before-save-hook RET.

;;; Code:

(defgroup copyright nil
 "Update the copyright notice in current buffer."
 :group 'tools)

(defcustom copyright-limit 2000
 "Don't try to update copyright beyond this position unless interactive.
A value of nil means to search whole buffer."
 :group 'copyright
 :type '(choice (integer :tag "Limit")
 (const :tag "No limit")))

(defcustom copyright-at-end-flag nil
 "Non-nil means to search backwards from the end of the buffer for copyright.
This is useful for ChangeLogs."
 :group 'copyright
 :type 'boolean
 :version "23.1")
;;;###autoload(put 'copyright-at-end-flag 'safe-local-variable 'booleanp)

(defcustom copyright-regexp

```

```
"\\(\\@copyright{ }\\[Cc]opyright\\s *?:?\\s *\\(?:C)\\)?\\
\\[Cc]opyright\\s *?:?\\s *\\)\\
\\s *\\(?:[0-9\\n]*\\s *\\)?\\
\\([1-9]\\([-0-9, '/*%#\\n\\t]\\s<\\s>\\)*[0-9]+\\)"
```

"What your copyright notice looks like.

The second \\( \\) construct must match the years."

```
:group 'copyright
```

```
:type 'regex)
```

```
(defcustom copyright-names-regex ""
```

"Regex matching the names which correspond to the user.

Only copyright lines where the name matches this regex will be updated.

This allows you to avoid adding years to a copyright notice belonging to someone else or to a group for which you do not work."

```
:group 'copyright
```

```
:type 'regex)
```

```
:: The worst that can happen is a malicious regex that overflows in
```

```
:: the regex matcher, a minor nuisance. It's a pain to be always
```

```
:: prompted if you want to put this in a dir-locals.el.
```

```
::###autoload(put 'copyright-names-regex 'safe-local-variable 'stringp)
```

```
(defcustom copyright-years-regex
```

```
"\\(\\s *\\)\\([1-9]\\([-0-9, '/*%#\\n\\t]\\s<\\s>\\)*[0-9]+\\)"
```

"Match additional copyright notice years.

The second \\( \\) construct must match the years."

```
:group 'copyright
```

```
:type 'regex)
```

```
:: See "Copyright Notices" in maintain.info.
```

```
:: TODO? 'end only for ranges at the end, other for all ranges.
```

```
:: Minimum limit on the size of a range?
```

```
(defcustom copyright-year-ranges nil
```

"Non-nil if individual consecutive years should be replaced with a range.

For example: 2005, 2006, 2007, 2008 might be replaced with 2005-2008.

If you use ranges, you should add an explanatory note in a README file.

The function `copyright-fix-years' respects this variable."

```
:group 'copyright
```

```
:type 'boolean
```

```
:version "24.1")
```

```
::###autoload(put 'copyright-year-ranges 'safe-local-variable 'booleanp)
```

```
(defcustom copyright-query 'function
```

"If non-nil, ask user before changing copyright.

When this is `function', only ask when called non-interactively."

```
:group 'copyright
```

```
:type '(choice (const :tag "Do not ask"))
```

```

(const :tag "Ask unless interactive" function)
(other :tag "Ask" t)))

;; when modifying this, also modify the comment generated by autoinsert.el
(defconst copyright-current-gpl-version "3"
 "String representing the current version of the GPL or nil.")

(defvar copyright-update t
 "The function `copyright-update' sets this to nil after updating a buffer.")

;; This is a defvar rather than a defconst, because the year can
;; change during the Emacs session.
(defvar copyright-current-year (format-time-string "%Y")
 "String representing the current year.")

(defsubst copyright-limit () ; re-search-forward BOUND
 (and copyright-limit
 (if copyright-at-end-flag
 (- (point) copyright-limit)
 (+ (point) copyright-limit))))

(defun copyright-re-search (regexp &optional bound noerror count)
 "Re-search forward or backward depending on `copyright-at-end-flag'."
 (if copyright-at-end-flag
 (re-search-backward regexp bound noerror count)
 (re-search-forward regexp bound noerror count)))

(defun copyright-start-point ()
 "Return point-min or point-max, depending on `copyright-at-end-flag'."
 (if copyright-at-end-flag
 (point-max)
 (point-min)))

(defun copyright-offset-too-large-p ()
 "Return non-nil if point is too far from the edge of the buffer."
 (when copyright-limit
 (if copyright-at-end-flag
 (< (point) (- (point-max) copyright-limit))
 (> (point) (+ (point-min) copyright-limit)))))

(defun copyright-find-copyright ()
 "Return non-nil if a copyright header suitable for updating is found.
The header must match `copyright-regexp' and `copyright-names-regexp', if set.
This function sets the match-data that `copyright-update-year' uses."
 (widen)
 (goto-char (copyright-start-point))
 (condition-case err

```

```

;; (1) Need the extra \\(\\) around copyright-regexp because we
;; goto (match-end 1) below. See note (2) below.
(copyright-re-search (concat "\\(" copyright-regexp
 "\\)\\([\\t]*\\n\\)?.*\\(?:"
 copyright-names-regexp "\\)")
 (copyright-limit)
 t)
;; In case the regexp is rejected. This is useful because
;; copyright-update is typically called from before-save-hook where
;; such an error is very inconvenient for the user.
(error (message "Can't update copyright: %s" err) nil))

```

```

(defun copyright-find-end ()
 "Possibly adjust the search performed by `copyright-find-copyright'.
 If the years continue onto multiple lines that are marked as comments,
 skips to the end of all the years."

```

```

 (while (save-excursion
 (and (eq (following-char) ?,)
 (progn (forward-char 1) t)
 (progn (skip-chars-forward " \\t") (eolp))
 comment-start-skip
 (save-match-data
 (forward-line 1)
 (and (looking-at comment-start-skip)
 (goto-char (match-end 0))))
 (looking-at-p copyright-years-regexp)))
 (forward-line 1)
 (re-search-forward comment-start-skip)
 ;; (2) Need the extra \\(\\) so that the years are subexp 3, as
 ;; they are at note (1) above.
 (re-search-forward (format "\\(%s\\)" copyright-years-regexp)))

```

```

(defun copyright-update-year (replace noquery)
 ;; This uses the match-data from copyright-find-copyright/end.
 (goto-char (match-end 1))
 (copyright-find-end)
 (setq copyright-current-year (format-time-string "%Y"))
 (unless (string= (buffer-substring (- (match-end 3) 2) (match-end 3))
 (substring copyright-current-year -2))
 (if (or noquery
 (save-window-excursion
 (switch-to-buffer (current-buffer))
 ;; Fixes some point-moving oddness (bug#2209).
 (save-excursion
 (y-or-n-p (if replace
 (concat "Replace copyright year(s) by "
 copyright-current-year "? ")
 (concat "Add " copyright-current-year

```



```

" to copyright? "))))))
(if replace
 (replace-match copyright-current-year t t nil 3)
 (let ((size (save-excursion (skip-chars-backward "0-9"))))
 (if (and (eq (% (- (string-to-number copyright-current-year)
 (string-to-number (buffer-substring
 (+ (point) size)
 (point))))
 100)
 1)
 (or (eq (char-after (+ (point) size -1)) ?-)
 (eq (char-after (+ (point) size -2)) ?-)))
 ;; This is a range so just replace the end part.
 (delete-char size)
 ;; Insert a comma with the preferred number of spaces.
 (insert
 (save-excursion
 (if (re-search-backward "[0-9]\\(*, *\\)[0-9]"
 (line-beginning-position) t)
 (match-string 1)
 ", ")))
 ;; If people use the '91 '92 '93 scheme, do that as well.
 (if (eq (char-after (+ (point) size -3)) ?')
 (insert ?'))
 ;; Finally insert the new year.
 (insert (substring copyright-current-year size))))))

;;;###autoload
(defun copyright-update (&optional arg interactive)
 "Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
`copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively."
 (interactive "*P\n")
 (when (or copyright-update interactivep)
 (let ((noquery (or (not copyright-query)
 (and (eq copyright-query 'function) interactivep))))
 (save-excursion
 (save-restriction
 ;; If names-regexp doesn't match, we should not mess with
 ;; the years _or_ the GPL version.
 ;; TODO there may be multiple copyrights we should update.
 (when (copyright-find-copyright)
 (copyright-update-year arg noquery)
 (goto-char (copyright-start-point))

```

```

 (and copyright-current-gpl-version
 ;; Match the GPL version comment in .el files.
 ;; This is sensitive to line-breaks. :(
 (copyright-re-search
 "the Free Software Foundation[,\n].*either version \
 \\([0-9]+\\)\\((?: of the License\\)?, or[\\n].*any later version"
 (copyright-limit) t)
 ;; Don't update if the file is already using a more recent
 ;; version than the "current" one.
 (< (string-to-number (match-string 1))
 (string-to-number copyright-current-gpl-version))
 (or noquery
 (save-match-data
 (goto-char (match-end 1))
 (save-window-excursion
 (switch-to-buffer (current-buffer))
 (y-or-n-p
 (format "Replace GPL version %s with version %s? "
 (match-string-no-properties 1)
 copyright-current-gpl-version))))))
 (replace-match copyright-current-gpl-version t t nil 1))))
 (set (make-local-variable 'copyright-update) nil)))
 ;; If a write-file-hook returns non-nil, the file is presumed to be written.
 nil))

```

```

;; FIXME heuristic should be within 50 years of present (cf calendar).

```

```

;;;###autoload

```

```

(defun copyright-fix-years ()

```

```

 "Convert 2 digit years to 4 digit years.

```

```

 Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.

```

```

 If `copyright-year-ranges' (which see) is non-nil, also
 independently replaces consecutive years with a range."

```

```

 (interactive)

```

```

 ;; TODO there may be multiple copyrights we should fix.

```

```

 (if (copyright-find-copyright)

```

```

 (let ((s (match-beginning 3))

```

```

 (p (make-marker))

```

```

 ;; Not line-beg-pos, so we don't mess up leading whitespace.

```

```

 (copystart (match-beginning 0))

```

```

 e last sep year prev-year first-year range-start range-end)

```

```

 ;; In case years are continued over multiple, commented lines.

```

```

 (goto-char (match-end 1))

```

```

 (copyright-find-end)

```

```

 (setq e (copy-marker (1+ (match-end 3))))

```

```

 (goto-char s)

```

```

 (while (re-search-forward "[0-9]+" e t)

```

```

 (set-marker p (point))

```

```

(goto-char (match-beginning 0))
(setq year (string-to-number (match-string 0)))
(and (setq sep (char-before))
 (/= (char-syntax sep) ?\s)
 (/= sep ?-))
(insert " ")
(when (< year 100)
 (insert (if (>= year 50) "19" "20")))
(setq year (+ year (if (>= year 50) 1900 2000))))
(goto-char p)
(when copyright-year-ranges
 ;; If the previous thing was a range, don't try to tack more on.
 ;; Ie not 2000-2005 -> 2000-2005-2007
 ;; TODO should merge into existing range if possible.
 (if (eq sep ?-)
 (setq prev-year nil
 year nil)
 (if (and prev-year (= year (1+ prev-year)))
 (setq range-end (point))
 (when (and first-year prev-year
 (> prev-year first-year))
 (goto-char range-end)
 (delete-region range-start range-end)
 (insert (format "-%d" prev-year))
 (goto-char p))
 (setq first-year year
 range-start (point))))))
(setq prev-year year
 last p)
(when last
 (when (and copyright-year-ranges
 first-year prev-year
 (> prev-year first-year))
 (goto-char range-end)
 (delete-region range-start range-end)
 (insert (format "-%d" prev-year)))
 (goto-char last)
 ;; Don't mess up whitespace after the years.
 (skip-chars-backward "\t")
 (save-restriction
 (narrow-to-region copystart (point))
 ;; This is clearly wrong, eg what about comment markers?
 ;; (let ((fill-prefix " "))
 ;; ;; TODO do not break copyright owner over lines.
 ;; (fill-region (point-min) (point-max))))
 (set-marker e nil)
 (set-marker p nil))
 ;; Simply reformatting the years is not copyrightable, so it does

```

```

;; not seem right to call this. Also it messes with ranges.
;;; (copyright-update nil t)
 (message "No copyright message"))))

;;;###autoload
(define-skeleton copyright
 "Insert a copyright by $ORGANIZATION notice at cursor."
 "Company: "
 comment-start
 "Copyright (C) " `(format-time-string "% Y") " by "
 (or (getenv "ORGANIZATION")
 str)
 '(if (copyright-offset-too-large-p)
 (message "Copyright extends beyond `copyright-limit' and won't be updated automatically."))
 comment-end \n)

;; TODO: recurse, exclude COPYING etc.
;;;###autoload
(defun copyright-update-directory (directory match &optional fix)
 "Update copyright notice for all files in DIRECTORY matching MATCH.
If FIX is non-nil, run `copyright-fix-years' instead."
 (interactive "DDirectory: \nMFilenames matching (regexp): ")
 (dolist (file (directory-files directory t match nil))
 (unless (file-directory-p file)
 (message "Updating file `%s'" file)
 ;; FIXME we should not use find-file+save+kill.
 (let ((enable-local-variables :safe)
 (enable-local-eval nil))
 (find-file file)
 (let ((inhibit-read-only t))
 (if fix
 (copyright-fix-years)
 (copyright-update)))
 (save-buffer)
 (kill-buffer (current-buffer))))))

(provide 'copyright)

;; For the copyright sign:
;; Local Variables:
;; coding: utf-8
;; End:

;;; copyright.el ends here
;ELC
;;; Compiled by gm@skiddaw on Fri Mar 8 00:17:33 2013
;;; from file /misc/emacs/bzr/emacs24-merge/lisp/emacs-lisp/copyright.el
;;; in Emacs version 24.3.1

```

;;; with all optimizations.

;;; This file contains utf-8 non-ASCII characters,  
;;; and so cannot be loaded into Emacs 22 or earlier.

```
(and (boundp 'emacs-version)
 (< (aref emacs-version (1- (length emacs-version))) ?A)
 (string-lessp emacs-version "23")
 (error "%s" was compiled for Emacs 23 or later" #))
```

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;

```
(byte-code
 "\300\301\302\303\304\305%\210\306\307\310\311\304\301\312\313&\210\306\314\302\315\304\301\312\316\317\320&
 \210\306\321\322\323\304\301\312\324&\210\306\325\326\327\304\301\312\324&\210\306\330\331\332\304\301\3
 12\324&\210\306\333\302\334\304\301\312\316\317\335& \210\306\336\337\340\304\301\312\341&\207" [custom-
 declare-group copyright nil "Update the copyright notice in current buffer." :group tools custom-declare-variable
 copyright-limit 2000 "Don't try to update copyright beyond this position unless interactive.\nA value of nil means to
 search whole buffer." :type (choice (integer :tag "Limit") (const :tag "No limit")) copyright-at-end-flag "Non-nil
 means to search backwards from the end of the buffer for copyright.\nThis is useful for ChangeLogs." boolean
 :version "23.1" copyright-regexp "\\(\\|@copyright{ }\\|\\[Cc]opyright\\s *?:?\\s *\\(?:C)\\|?)\\|\\[Cc]opyright\\s *?:?\\s
 *\\|\\s *\\(?:[^\200-\255]*\\|\\s *\\|\\|\\|[1-9]\\|\\|[-0-9,;/%#n]\\|\\|s<\\|\\|s>\\|)*[0-9]+\\|)" "What your copyright notice looks
 like.\n\nThe second \\(\\) construct must match the years." regexp copyright-names-regexp "" "Regex matching the
 names which correspond to the user.\n\nOnly copyright lines where the name matches this regexp will be
 updated.\n\nThis allows you to avoid adding years to a copyright notice belonging to\nsomeone else or to a group for
 which you do not work." copyright-years-regexp "\\(\\|s *\\|\\|\\|[1-9]\\|\\|[-0-9,;/%#n]\\|\\|s<\\|\\|s>\\|)*[0-9]+\\|)" "Match
 additional copyright notice years.\n\nThe second \\(\\) construct must match the years." copyright-year-ranges "Non-
 nil if individual consecutive years should be replaced with a range.\n\nFor example: 2005, 2006, 2007, 2008 might be
 replaced with 2005-2008.\n\nIf you use ranges, you should add an explanatory note in a README file.\n\nThe function
 `copyright-fix-years' respects this variable." "24.1" copyright-query 'function "If non-nil, ask user before changing
 copyright.\n\nWhen this is `function', only ask when called non-interactively." (choice (const :tag "Do not ask") (const
 :tag "Ask unless interactive" function) (other :tag "Ask" t))] 10)
 #@60 String representing the current version of the GPL or nil.
 (defconst copyright-current-gpl-version "3" (#$. 2656))
 #@75 The function `copyright-update' sets this to nil after updating a buffer.
 (defvar copyright-update t (#$. 2778))
 #@39 String representing the current year.
 (defvar copyright-current-year (format-time-string "%Y") (#$. 2898))
 (defalias 'copyright-limit #[nil "\205 \203\F Z\207`\\207" [copyright-limit copyright-at-end-flag] 2])
 (put 'copyright-limit 'byte-optimizer 'byte-compile-inline-expand)
 #@69 Re-search forward or backward depending on `copyright-at-end-flag'.
 (defalias 'copyright-re-search #[(regexp &optional bound noerror count) "\203\305 \n\fs\207\306 \n\fs\207"
 [copyright-at-end-flag regexp bound noerror count re-search-backward re-search-forward] 5 (#$. 3189))]
 #@70 Return point-min or point-max, depending on `copyright-at-end-flag'.
 (defalias 'copyright-start-point #[nil "\203d\207e\207" [copyright-at-end-flag] 1 (#$. 3479))]
 #@65 Return non-nil if point is too far from the edge of the buffer.
 (defalias 'copyright-offset-too-large-p #[nil "\205 \203`dZW\207`e\\V\207" [copyright-limit copyright-at-end-flag] 3
```

(#\$ . 3653))

#@218 Return non-nil if a copyright header suitable for updating is found.

The header must match `copyright-regexp` and `copyright-names-regexp`, if set.

This function sets the match-data that `copyright-update-year` uses.

```
(defalias 'copyright-find-copyright #[nil "~\210\300 b\210\302\303\217\207" [copyright-start-point err (byte-code "\304\305\306 \307\260\n\205\203\nZ\202\n\\310#\207" [copyright-regexp copyright-names-regexp copyright-limit copyright-at-end-flag copyright-re-search "\\(" "\\)\|[]*\n\|)?.*\|(?:" "\\)" t] 6) ((error (message "Can't update copyright: %s" err) nil))] 3 (#$. 3862))
```

#@175 Possibly adjust the search performed by `copyright-find-copyright`.

If the years continue onto multiple lines that are marked as comments,

skips to the end of all the years.

```
(defalias 'copyright-find-end #[nil "\212g\305=\2053\306u\210\307\310w\210\2053\2053\311\312\216\306y\210\313!\205\314\225b*\2053\n\315\313!*)\205H\306y\210\316!\210\316\317\320\n"! \210\202\207" [comment-start-skip save-match-data-internal copyright-years-regexp regexp inhibit-changing-match-data 44 1 " nil match-data ((byte-code "\301\302"\207" [save-match-data-internal set-match-data evaporate] 3)) looking-at 0 t re-search-forward format "\\(%s\\)" 4 (#$. 4487))
```

```
(defalias 'copyright-update-year #[(replace noquery) "\305\225b\210\306\210\307\310!\311\225\312Z\311\225{\313\314O\230?\205\247 \204>\315\316\216\317p!\210\212\320\2035\321\322Q\2029\323\324Q!+\205\247\203J\325\326\211\314\311%\207\212\327\314x)\330!\330`f\` {!Z\331\246\305=\203\332`f\333#\334=\204x\332`f\313#\334=\203\335f!\210\202\241\212\336\337\340 \326#\203\217\341\305!\202\220\342)c\210\332`f\343#\344=\203\241\344c\210f\314Oc)\207" [copyright-current-year noquery #1=#:wconfig replace size 1 copyright-find-end format-time-string "%Y" 3 2 -2 nil current-window-configuration ((set-window-configuration #1#)) switch-to-buffer y-or-n-p "Replace copyright year(s) by " "?" " "Add " " to copyright?" replace-match t "0-9" string-to-number 100 + -1 45 delete-char re-search-backward "[0-9]\\((*, *\\)[0-9]" line-beginning-position match-string ", " -3 39] 6)
```

#@369 Update copyright notice to indicate the current year.

With prefix ARG, replace the years in the notice rather than adding

the current year after them. If necessary, and

`copyright-current-gpl-version` is set, any copying permissions

following the copyright are updated as well.

If non-nil, INTERACTIVEP tells the function to behave as when it's called interactively.

```
(defalias 'copyright-update #[(&optional arg interactivep) "\204 \205\207\n?\206\n\306=\205 \212\214\307\203~\310f"\210\311 b\210\203~\312\313\205@\203<Z\202@`\\314#\203~\315\316\317!!\315!W\203~\204v\320 \321\216\317\225b\210\322 \323\216\324p!\210\325\326\327\330\317!#!,\203~\331\314\211\332\317%\210)\333\300!\210\332*\332\207" [copyright-update interactivep copyright-query noquery arg copyright-current-gpl-version function copyright-find-copyright copyright-update-year copyright-start-point copyright-re-search "the Free Software Foundation[,;n].*either version \\([0-9]+\|)\|(? of the License\|)?, or[\n].*any later version" t string-to-number match-string 1 match-data ((byte-code "\301\302"\207" [save-match-data-internal set-match-data evaporate] 3)) current-window-configuration ((set-window-configuration #1=#:wconfig)) switch-to-buffer y-or-n-p format "Replace GPL version %s with version %s?" match-string-no-properties replace-match nil make-local-variable copyright-limit copyright-at-end-flag save-match-data-internal #1#] 6 (#$. 6067) "*P\n")
```

#@208 Convert 2 digit years to 4 digit years.

Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.

If `copyright-year-ranges` (which see) is non-nil, also

independently replaces consecutive years with a range.

```
(defalias 'copyright-fix-years #[nil "\306 \307 \224 \310
\311 \224 \312 \211 \211 \211 \211 \211 \211 \211 \211 \211"#$%&\313 \225b \210 \314
\210 \315 \307 \225T!#&b \210 \316 \317 # \320 # \203 \331 % ` \312 \223 \210 \311 \224b \210 \321 \322 \311 !!` Sf \211 \203f
z \323U \204f
\324U \204f \325c \210 \326W \203 \207 \327Y \203v \330 \202w \331c \210 \327Y \203 \204 \332 \202 \205 \333 \b
\210 \203 \320
\324 = \203 \235 \312 \211 \202 \320 \203 \255 \320 \255 ` \202 \320 \n \203 \314 \203 \314 \nV \203 \314b \210
\210 \334 \335 "c \210 %b \210 \336 \312x \210 \214 $ } \210 \337ed " \210) # \312 \211 \223 \210 % \312 \211 \223 . \207 \340 \34
1 ! \207" [range-end range-start first-year prev-year year sep copyright-find-copyright 3 make-marker 0 nil 1
copyright-find-end copy-marker re-search-forward "[0-9]+" t string-to-number match-string 32 45 " " 100 50 "19"
"20" 1900 2000 format "-%d" " " fill-region message "No copyright message" last e copystart p s copyright-year-
ranges] 12 (#$. 7556) nil])
(put 'copyright 'no-self-insert t)
#@558 Insert a copyright by $ORGANIZATION notice at cursor.
```

This is a skeleton command (see `skeleton-insert').

Normally the skeleton text is inserted at point, with nothing "inside".

If there is a highlighted region, the skeleton text is wrapped around the region text.

A prefix argument ARG says to wrap the skeleton around the next ARG words.

A prefix argument of -1 says to wrap around region, even if not highlighted.

A prefix argument of zero says to wrap around zero words---that is, nothing.

This is a way of overriding the use of a highlighted region.

```
(defalias 'copyright #[(&optional str arg) "\302 \303 # \207" [str arg skeleton-proxy-new ("Company: " comment-start
"Copyright (C) " `(format-time-string "%Y") " by " (or (getenv "ORGANIZATION") str) '(if (copyright-offset-too-
large-p) (message "Copyright extends beyond `copyright-limit' and won't be updated automatically.))) comment-end
n)] 4 (#$. 8883) "*P\nP"])
```

Update copyright notice for all files in DIRECTORY matching MATCH.

If FIX is non-nil, run `copyright-fix-years' instead.

```
(defalias 'copyright-update-directory #[(directory match &optional fix) "\306 \307
\310 $ \310 \211 \205E @ \311 \n! \204 = \312 \313 \n " \210 \314 \310 \315 \n! \210 * \307 \2032 \316 \210 \2025 \317 \210) \320
\210 \321p! \210A \211 \204
\310 * \207" [directory match file --dolist-tail-- enable-local-eval enable-local-variables directory-files t nil file-
directory-p message "Updating file `%'s" :safe find-file copyright-fix-years copyright-update save-buffer kill-buffer
inhibit-read-only fix] 6 (#$. 9815) "DDirectory: \nMFilenames matching (regexp): ")
(provide 'copyright)
```

## 1.110 enum34 1.1.6

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## 1.112 enzyme-adapter-react-16 1.14.0

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THE BASIC LIBRARY FUNCTIONS

-----

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-----

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End

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[Tcl/Tk]

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-----  
[Misc C library code]

/\*

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-----  
[zlib]

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

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

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

\*/

-----  
[edoc, syntax\_tools]

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```
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%%
%% @copyright 2001-2003 Richard Carlsson
%% @author Richard Carlsson <richardc@csd.uu.se>
%% [http://www.csd.uu.se/~richardc/]
%% @version { @vsn }
%% @end
%% =====
```

```

[leex]
```

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```

```

[eldap]
```

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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

This 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 GNU Lesser General Public License instead of this License.

ethtool is available under the terms of the GNU Public License version 2.

See COPYING for details.

## 1.123 expat 2.1.0 :10.e17\_3

### 1.123.1 Available under license :

Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd  
and Clark Cooper

Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006 Expat maintainers.

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## 1.124 expect 5.45 :14.el7\_1

### 1.124.1 Available under license :

Expect

Written by: Don Libes, libes at nist.gov, NIST

Design and implementation of this program was paid for by U.S. tax dollars. Therefore it is public domain. However, the author and NIST would appreciate credit if this program or parts of it are used.

## 1.125 extract-text-webpack-plugin 3.0.2

### 1.125.1 Available under license :

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# 1.126 fence-agents 4.2.1 :11.e17\_6.8

## 1.126.1 Available under license :

Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):

~~~~~

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

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

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)
2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)
3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).
4. Removing some modules altogether without replacing them.

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

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the

contents of this file for any purpose whatsoever.

No rights are reserved.

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EXPORT RESTRICTIONS:

Note that the export or re-export of cryptographic software and/or source code may be subject to regulation in your jurisdiction.

00INDEX - This file

tsu-notify.mbox - Notification sent per U.S. export regulations

copy/ - Copyright info & public-domain dedications

From dlitz@dlitz.net Sat Apr 18 09:14:20 2009

Date: Sat, 18 Apr 2009 09:14:20 -0400

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

To: Mark Moraes <moraes@computer.org>

Subject: PyCrypto license clarification

Message-ID: <20090418131419.GA14494@rivest.dlitz.net>

MIME-Version: 1.0

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

Content-Disposition: inline

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

Status: RO

Content-Length: 2635

Hi Mark,

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

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

=====  
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express

or implied. Use at your own risk or not at all.

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

--amk (www.amk.ca)

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

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

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

Regards,  
- Dwayne

--  
Dwayne C. Litzenger <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.92TXl4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWWJYVyp50clsUFS Hzf7Zbpa8P1Yoe\_xSzf3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X onq8h\_TmzX9g84Bin9g\_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv\_bj\_Ghxw--

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

X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1

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

From: M Moraes <markmoraes@yahoo.com>

Reply-To: moraes@computer.org

Subject: Re: PyCrypto license clarification

To: "Dwayne C. 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. Litzberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzberger <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  
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> copyright holders as I can  
> find if I can release PyCrypto under something clearer and  
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> Below, I have quoted a public domain dedication that was  
> recommended in  
> \_Intellectual Property and Open Source: A Practical Guide  
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> Code\_, by Van Lindberg. I have already contacted A.  
> M. Kuchling, Robey  
> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they  
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> approved the following dedication for their contributions.  
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> I understand that you have made contributions to  
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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.  
>  
> =====  
>  
> Regards,  
> - Dwayne  
>  
> -- Dwayne C. Litzenger <dlitz@dlitz.net>  
> Key-signing key - 19E1  
> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009

Date: Mon, 20 Apr 2009 20:01:37 -0400

From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
To: moraes@computer.org  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>  
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
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.

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>Regards,

>Mark.

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

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

>> Subject: PyCrypto license clarification

>> To: "Mark Moraes" <moraes@computer.org>

>> Date: Saturday, April 18, 2009, 9:14 AM

>> Hi Mark,

>>

>> I am the new maintainer of the Python Cryptography Toolkit,

>> and I am

>> working on a new release at <http://www.pycrypto.org/>.

>>

>> People often ask me what license PyCrypto is covered by, if

>> it's

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>> The text in the current LICENSE file (quoted below) is not  
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>>  
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>> =====  
>> Distribute and use freely; there are  
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>> suitability for any purpose, express  
>> or implied. Use at your own risk or  
>> not at all.  
>>  
>> =====  
>>  
>> Incorporating the code into commercial  
>> products is permitted; you do  
>> not have to make source available or  
>> contribute your changes back  
>> (though that would be nice).  
>>  
>> --amk  
>>  
>>  
>> (www.amk.ca)  
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>> Below, I have quoted a public domain dedication that was  
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>> 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  
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>> approved the following dedication for their contributions.

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>> I understand that you have made contributions to

>> PyCrypto. May I, on your

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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.

>>

>> =====

>>

>> 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

From dlitz@dlitz.net Sat Feb 28 23:24:14 2009

Date: Sat, 28 Feb 2009 23:24:14 -0500

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

To: Jeethu Rao <jeethurao@gmail.com>

Subject: PyCrypto license clarification

Message-ID: <20090301042414.GA15122@rivest.dlitz.net>

MIME-Version: 1.0

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

Content-Disposition: inline

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

Status: RO

Content-Length: 2513

Hi Jeethu,

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

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

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=====

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

--amk (www.amk.ca)

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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: (vmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600

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

Received-SPF: pass (gmail.com ... \_spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249

Received: from rv-out-0708.google.com (unknown [209.85.198.249])

by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7

for <dlitz@dlitz.net>; Sun, 8 Mar 2009 15:28:12 -0600 (CST)

Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26

for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;

d=gmail.com; s=gamma;

h=domainkey-signature:mime-version:received:in-reply-to:references

:date:message-id:subject:from:to:content-type;

bh=YWy9U32WCU/ksRqukHwaOZyJQBUs4Yvt5mI20U6mI/g=;

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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

vIjqcT+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".)

>

> =====

> 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 text for  
> their contributions.

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

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

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

--  
Jeethu Rao

--000e0cd209d0e5a3d40464a23054  
Content-Type: text/html; charset=ISO-8859-1  
Content-Transfer-Encoding: quoted-printable

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256  
module, IIRC). I'd be fine with the public domain license for  
PyCrypto.  
<br>  
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 <a href="mailto:jeethu@jeethu-  
rao.com">jeethu@jeethurao.com</a>  
<br>  
<div class="gmail\_quote">On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzemberger <span dir="ltr"><= <a href="mailto:dlitz@dlitz.net">dlitz@dlitz.net</a></span> wrote:<br>  
</div>



<blockquote class="gmail\_quote" style="margin: 0 0 .8ex; border-left: 1px solid; padding-left: 1ex;">Hi Jeethu,<br>

<br>

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

<br>

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".)<br>

<br>

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, expressed or implied. Use at your own risk or not at all.<br>

Use at your own risk or not at all.<br>

Use at your own risk or not at all.<br>

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

<br>

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

<br>

--amk <a href="http://www.amk.ca" target="\_blank">www.amk.ca</a><br>

<br>

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.<br>

<br>

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?<br>



- > 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  
 FektbDOzkxgc5580MGGeeX/MVn8aw+1BHg0YD85gsntlDzkcQtb+BR/xAvJ5zKyA  
 J/Mn/I+I6ekJQ3juh8IPHLAduOXM9Rtguas/yR+Doaq0xOPKobX+/5+t1LJtBcZ  
 wrPEa9Oui9s=  
 =zSY9

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

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

Hi Barry,

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

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

=====

Distribute and use freely; there are no restrictions on further

dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

=====

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

--amk (www.amk.ca)

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

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

=====

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

=====

Regards,  
- Dwayne

--

Dwayne C. Litzberger <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. Litzenberger <dlitz@dlitz.net>  
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>  
Content-Type: text/plain; charset=US-ASCII; format=flowed; delpsp=yes  
Content-Transfer-Encoding: quoted-printable  
Mime-Version: 1.0 (Apple Message framework v930.3)  
Subject: Re: PyCrypto license clarification  
Date: Mon, 2 Mar 2009 11:29:34 -0500  
References: <20090301024509.GA13195@rivest.dlitz.net>  
X-Pgp-Agent: GPGMail d55 (v55, Leopard)  
X-Mailer: Apple Mail (2.930.3)  
Status: RO  
Content-Length: 869

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

Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. 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  
evkJnSJQAcVHIznVIVeR5IXgvDUMakZjU4SOV7MqkhsKA9Ilet7PaD9VSYgn3ra5  
gElwI2DQDoOy5GExXMm74gqrrb1PCCbCRmpaYNo+DZohwHkeFBjwDRA3wItOrH7  
SK4w9VBJfY=3D  
=3DQduY

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

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  
> dedication that was recommended in Intellectual Property and Open  
> Source: A Practical Guide to Protecting Code, by Van Lindberg. I  
> have already contacted A. M. Kuchling, and he has approved the  
> following dedication for his contributions.

>

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

>

>

> =

> =====

> The contents of this file are dedicated to the public domain. To  
> the

> extent that dedication to the public domain is not available,  
> 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.

>  
> =  
> =====  
>

In case I haven't replied to this yet: Yes, this is fine with me.

robey

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

Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCfQmYYuVODvIlyLg0hgCI9LAbQ  
SH8AoLJgaq1lli7/ZYDc+/Cd8VO0xLbr

=Mv6g

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

This package was debianized by Craig Silverstein <google-gflags@googlegroups.com> on  
Wed, 18 Jan 2012 13:57:39 -0800.

It was downloaded from <http://code.google.com/p/python-gflags/downloads/list>

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The Debian packaging is (C) 2011, Tim 'mithro' Ansell <mithro@mithis.com> and is licensed under the above.

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".)

=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=





--YiEDa0DAkWCtVeE4  
Content-Type: application/pgp-signature; name="signature.asc"  
Content-Description: Digital signature  
Content-Disposition: inline

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

Version: GnuPG v1.4.5 (GNU/Linux)

iEYEARECAAYFAkko52IACgkQHfBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ  
yloAn33a3ZjkteyJaTbzEqImOEW8JGpf  
=aBEW  
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008  
X-Maildir-Dup-Checked: Yes  
Return-Path: <amk@amk.ca>  
X-Original-To: dwon@rivest.dlitz.net  
Delivered-To: dwon@rivest.dlitz.net  
Received: from goedel.dlitz.net (unknown [10.159.255.6])  
by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D  
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id D632D10111  
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)  
Received: (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. Litzenger" <dlitz@dlitz.net>  
Subject: Re: PyCrypto license clarification  
Message-ID: <20081123125134.GA21239@amk.local>  
Reply-To: amk@amk.ca  
References: <20081123051722.GA29253@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline  
In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>

User-Agent: Mutt/1.5.13 (2006-08-11)

Status: RO

Content-Length: 537

Lines: 15

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

The intention is that it be public domain.

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

You may.

--amk

From dlitz@dlitz.net 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".)

=====

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or implied. Use at your own risk or not at all.

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

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many 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. Litzenger <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: (vmmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600  
Delivered-To: m-dlitz-dlitz@dlitz.net  
Received-SPF: pass (gmail.com ... \_spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159  
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])  
by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066  
for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)  
Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3  
for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)  
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;  
d=gmail.com; s=gamma;  
h=domainkey-signature:mime-version:received:in-reply-to:references  
:from:date:message-id:subject:to:content-type  
:content-transfer-encoding;  
bh=A0RHBf0TnribKS5qOHJ3WYbkZ+b0cuPeuoKAvpApWcc=;  
b=gyTqkRhKIHadFKIZCBWsRbnMNVDq1PWlJbyC0EvxPskaoHr3HAR96MWQNBePu/40Ac  
Vn55qllqTdom4e9zIUUEE6MwZo9kqi/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  
1ornJLM1eQ2XyuZA73jem+SJtfdHUcSD1UhgI=  
MIME-Version: 1.0  
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,  
03 Aug 2009 09:14:03 -0700 (PDT)  
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>  
References: <20090803014825.GA1326@rivest.dlitz.net>  
From: Paul Swartz <paulswartz@gmail.com>  
Date: Mon, 3 Aug 2009 12:13:43 -0400  
Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>  
Subject: Re: PyCrypto license clarification  
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
Content-Type: text/plain; charset=UTF-8  
Content-Transfer-Encoding: quoted-printable  
Status: RO  
X-Status: A  
Content-Length: 1450

On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenger<dlitz@dlitz.net> wrote:

> Hi Paul,

>

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

> working on a new release at <http://www.pycrypto.org/>.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname

> "z3p" and/or other names. May I, on your behalf, dedicate to the public

> domain all your contributions to PyCrypto, with the following notice?

>

> 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.

> The contents of this file are dedicated to the public domain. To the

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. Litzenberger<dlitz@dlitz.net> wrote:

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>> 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. Litzenberger <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. Litzenberger" <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)

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?

```
=====
The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
```



any purpose whatsoever. No rights are reserved.

=====  
Regards,

- Dwayne

--

Dwayne C. Litzberger <dlitz@dlitz.net>

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

From 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. Litzberger" <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.  
=====

Regards,  
Joris

Citeren "Dwayne C. Litzberger" <dlitz@dlitz.net>:

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

From dlitz@dlitz.net Tue May 5 17:53:47 2009  
Date: Tue, 5 May 2009 17:53:47 -0400  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: joris@bontje.nl  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090505215347.GB9933@rivest.dlitz.net>  
References: <20090505024914.GA9219@rivest.dlitz.net>  
<20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline  
In-Reply-To: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 3863

Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:

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>

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>> =====  
>> 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  
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>> =====  
>>  
>> Regards,  
>> - Dwayne  
>>  
>> --  
>> Dwayne C. Litzengerger <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

## A. HISTORY OF THE SOFTWARE

=====

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

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

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

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

| Release from   | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | no                  |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

## B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

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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

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helo=goedel.dlitz.net; mechanism=-all; envelope-from=dlitz@dlitz.net;  
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taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100  
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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-----

#####

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# stamper.itconsult.co.uk certifying that a user  
# claiming to be:-  
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#  
# This certificate was issued at 00:45 (GMT)  
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SUBMISSION TYPE: TSU  
SUBMITTED BY: Dwayne C. Litzenberger  
SUBMITTED FOR: Dwayne C. Litzenberger  
POINT OF CONTACT: Dwayne C. Litzenberger  
PHONE and/or FAX: +1-613-693-1296  
MANUFACTURER: n/a  
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")  
ECCN: 5D002

NOTIFICATION: <http://www.pycrypto.org/>

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

---

Dwayne C. Litzenberger <dlitz@dlitz.net>

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

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

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

Version: 2.6.3i

Charset: noconv

Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGVnbVwth+BAQEcuwf9EWnXLqSO5bPzR9K9QnTPcsKbTljKjPxr

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XYhY+HbRjsD741/GSpOt9IIN5ln0UgshFoLIndnNSAvWf4aPyh5KCN7ho+/BC0v/  
W/pqSSIPkwmbhlPHoOltTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==  
=3oIX

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

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This package was debianized by Craig Silverstein <google-gflags@googlegroups.com> on  
Wed, 18 Jan 2012 13:57:39 -0800.

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.. include: ../LICENSE.rst

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 (tm-da-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  
#  
# For information about the Stamper service see  
# <http://www.itconsult.co.uk/stamper.htm>  
#  
#####

SUBMISSION TYPE: TSU  
SUBMITTED BY: Dwayne C. Litzenberger  
SUBMITTED FOR: Dwayne C. Litzenberger  
POINT OF CONTACT: Dwayne C. Litzenberger  
PHONE and/or FAX: +1-613-693-1296  
MANUFACTURER: n/a  
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")  
ECCN: 5D002

NOTIFICATION: <http://www.pycrypto.org/>

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

--

Dwayne C. Litzenberger <[dlitz@dlitz.net](mailto: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/pqSSIPkwmblPHoOltTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==  
=3oIX

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

## 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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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

Dwayne C. Litzenberger <dlitz@dlitz.net>

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

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

--YiEDa0DAkWCtVeE4

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

Content-Description: Digital signature

Content-Disposition: inline

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

Version: GnuPG v1.4.5 (GNU/Linux)

iEYEARECAAYFAkko52IACgkQHBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ

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

Hi Mark,

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

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

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

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

--amk (www.amk.ca)

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

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

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

Regards,  
- Dwayne

--

Dwayne C. Litzberger <dlitz@dlitz.net>

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

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

X-Maildir-Dup-Checked: Yes

Return-Path: <markmoraes@yahoo.com>

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

Delivered-To: dwon@rivest.dlitz.net

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

by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD  
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F  
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)  
Received: (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: (gmail 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=OvxqbYnCc7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-  
Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;  
b=F2h2bFzpQxyKFZ8BhenniyupGw4Zvlekb9BSk91qKU+51W/TkSGBij5YZIhkLQdkQk0qLz5f4g8dT6bOME3s  
EY1j10hlx0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EJhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTqgB  
2aU=  
DomainKey-Signature:a=rsa-sha1; q=dns; c=noaws;  
s=s1024; d=yahoo.com;  
h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;  
b=r6RShFF5VzQLg+9tcn1xKuo4Rs4IVvXF6fdqOpQrMyRCxeFoebhuTE35grGqlomOJLwM0+mZwRb6rGkDj7  
63caOAl08Ect/qlADW5izXfmVQaDchTbTqmpsJBmQnTQs9iZ+InrG+3UIwtUSGfX7fhEWmI9P/HBzxf9Wp4b3j  
eo=;  
Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>  
X-YMail-OSG:  
FrK8aWMVM1mFJtLpMGbUbCLjbUQC.i.JkIAKUHSFsFn7t9PbtewAewXJ2uhZGCOIGCX6oVnG3u.CgqzAffY  
4vZSnfTT8wnCkzZNNZ\_g6k.XUc3ipo\_6e.92TXl4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWVJYVyp50clsUFS  
Hzf7Zbpa8P1Yoe\_xSzf3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X  
onq8h\_TmzX9g84Bin9g\_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv\_bj\_Ghxw--  
Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT  
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1  
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)  
From: M Moraes <markmoraes@yahoo.com>  
Reply-To: moraes@computer.org  
Subject: Re: PyCrypto license clarification  
To: "Dwayne C. 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".)

>  
>  
> =====  
>     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  
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> to Protecting  
> Code\_, by Van Lindberg. I have already contacted A.  
> M. Kuchling, Robey  
> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they  
> have all  
> approved the following dedication for their contributions.  
>  
> I understand that you have made contributions to  
> PyCrypto. May I, on your  
> behalf, dedicate to the public domain all your  
> contributions to PyCrypto,  
> with the following notice?  
>  
>  
> =====  
> The contents of this file are  
> dedicated to the public domain. To the  
> extent that dedication to the public  
> domain is not available, everyone  
> is granted a worldwide, perpetual,  
> royalty-free, non-exclusive license  
> to exercise all rights associated with  
> the contents of this file for  
> any purpose whatsoever. No  
> rights are reserved.  
>  
> =====  
>  
> Regards,  
> - Dwayne  
>  
> -- Dwayne C. Litzberger <dlitz@dlitz.net>  
> Key-signing key - 19E1  
> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7



>

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009  
Date: Mon, 20 Apr 2009 20:01:37 -0400  
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
To: moraes@computer.org  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>  
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
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. Litzenberger <dlitz@dlitz.net> wrote:

>

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

>> Subject: PyCrypto license clarification

>> To: "Mark Moraes" <moraes@computer.org>

>> Date: Saturday, April 18, 2009, 9:14 AM

>> Hi Mark,

>>

>> I am the new maintainer of the Python Cryptography Toolkit,

>> and I am  
>> working on a new release at <http://www.pycrypto.org/>.  
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>> People often ask me what license PyCrypto is covered by, if  
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>> 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. Litzengerger <dlitz@dlitz.net>  
>> Key-signing key - 19E1  
>> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>>  
>  
  
--  
Dwayne C. Litzengerger <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. Litzengerger" <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  
> dedication that was recommended in Intellectual Property and Open  
> Source: A Practical Guide to Protecting Code, by Van Lindberg. I  
> have already contacted A. M. Kuchling, and he has approved the  
> following dedication for his contributions.

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

>  
>  
> =

> =====

> The contents of this file are dedicated to the public domain. To  
> the  
> extent that dedication to the public domain is not available,  
> 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.

>  
> =  
> =====  
>

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  
SH8AoLJgaq1Ii7/ZYDc+/Cd8VO0xLbr  
=Mv6g

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

Date: Sun, 23 Nov 2008 15:54:35 -0800

From: Wim Lewis <wiml@hnhh.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?

>

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

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 Mon May 4 22:49:14 2009  
Date: Mon, 4 May 2009 22:49:14 -0400  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: Joris Bontje <joris@bontje.nl>  
Subject: PyCrypto license clarification  
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>

MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2553

Hi Joris,

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

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

=====  
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, 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?

=====  
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 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: (vmmailgr-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. Litzenberger" <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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Regards,  
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Citeren "Dwayne C. Litzberger" <dlitz@dlitz.net>:

> 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/>.  
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> People often ask me what license PyCrypto is covered by, if it's  
> GPL-compatible, etc. Right now, I'm not really sure what to tell them.  
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> 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.  
> =====  
>  
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>  
> --amk (www.amk.ca)  
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> =====  
>  
> Regards,  
> - Dwayne  
>  
> --  
> Dwayne C. Litzengerger <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. Litzengerger" <dlitz@dlitz.net>  
To: joris@bontje.nl  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090505215347.GB9933@rivest.dlitz.net>  
References: <20090505024914.GA9219@rivest.dlitz.net>  
<20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>

MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
In-Reply-To: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 3863

Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:

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>

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>

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>> or implied. Use at your own risk or not at all.

>> =====

>>

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>> (though that would be nice).

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>> --amk (www.amk.ca)

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>> =====

>>

>> Regards,

>> - Dwayne

>>

>> --

>> Dwayne C. Litzengerger <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  
From dlitz@dlitz.net Sun Aug 2 21:48:25 2009  
Date: Sun, 2 Aug 2009 21:48:25 -0400  
From: "Dwayne C. Litzenger" <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".)

```
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or implied. Use at your own risk or not at all.
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```

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

```
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The contents of this file are dedicated to the public domain. To the
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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 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: (vmmailgr-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  
Vn55qlqTdom4e9zIUUE6MwZo9kqi/Qw0L/SLib0DIQeNqo/eHYqPmuVswltaYwNAyMJ  
Y9++76rPGzqYdALsfvsmwv7Q3/bEmjVTr0tQE=  
DomainKey-Signature: a=rsa-sha1; c=noaws;  
d=gmail.com; s=gamma;  
h=mime-version:in-reply-to:references:from:date:message-id:subject:to  
:content-type:content-transfer-encoding;  
b=jze7KSMkUGilfVCXKXaaXMi5NAtGdMQOtVZZfRNyGSy68xOd2sxefjyyig3EfT6Nv6  
Q3opUMsT96Q6zjZND55w446kTh2uBTNZ4d3NwIeEWJnG3xcliRQu/mXPfP8AzPI3CefL  
1ornJLM1eQ2XyuZA73jem+SJtfdHUcSD1UhgI=  
MIME-Version: 1.0  
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,  
03 Aug 2009 09:14:03 -0700 (PDT)  
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>  
References: <20090803014825.GA1326@rivest.dlitz.net>  
From: Paul Swartz <paulswartz@gmail.com>  
Date: Mon, 3 Aug 2009 12:13:43 -0400  
Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>  
Subject: Re: PyCrypto license clarification  
To: "Dwayne C. Litzberger" <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. Litzberger<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=3D=
- =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
- =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
- > =C2=A0The contents of this file are dedicated to the public domain. =C2=
- =A0To the

> =C2=A0extent that dedication to the public domain is not available, every=  
one  
> =C2=A0is granted a worldwide, perpetual, royalty-free, non-exclusive lice=  
nse  
> =C2=A0to exercise all rights associated with the contents of this file fo=  
r  
> =C2=A0any purpose whatsoever. =C2=A0No rights are reserved.  
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=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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Yes, that's fine. Good luck with the new release!

-P

--=20

Paul Swartz

paulswartz at gmail dot com

<http://paulswartz.net/>

AIM: z3penguin

From dlitz@dlitz.net Mon Aug 3 14:35:01 2009

Date: Mon, 3 Aug 2009 14:35:01 -0400

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

To: Paul Swartz <paulswartz@gmail.com>

Subject: Re: PyCrypto license clarification

Message-ID: <20090803183501.GA17472@rivest.dlitz.net>

References: <20090803014825.GA1326@rivest.dlitz.net>

<324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=iso-8859-1; format=flowed

Content-Disposition: inline

Content-Transfer-Encoding: 8bit

In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>

X-Primary-Address: dlitz@dlitz.net

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

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

id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);

preference=unprotected

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

id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);

preference=signencrypt

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

Status: RO

Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

>On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:

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

Perfect! Thanks for the quick response!

--

Dwayne C. Litzenger <dlitz@dlitz.net>

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

From dlitz@dlitz.net Sat Feb 28 21:45:09 2009

Date: Sat, 28 Feb 2009 21:45:09 -0500

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

To: Barry A Warsaw <barry@python.org>

Subject: PyCrypto license clarification

Message-ID: <20090301024509.GA13195@rivest.dlitz.net>

MIME-Version: 1.0

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

Content-Disposition: inline

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

Status: RO

Content-Length: 2535

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--

Dwayne C. Litzengerger <dlitz@dlitz.net>

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

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

X-Maildir-Dup-Checked: Yes

Return-Path: <barry@python.org>

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

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

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

Hash: SHA1

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

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iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLdHI6agk
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SK4w9VBJfY=3D
=3DQduY
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-----END PGP SIGNATURE-----

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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=====
```

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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. Litzemberger <dlitz@dlitz.net>

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

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <jeethurao@gmail.com>

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

Delivered-To: dwon@rivest.dlitz.net

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

by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9

for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB

for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)

Received: (vmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600

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

Received-SPF: pass (gmail.com ... \_spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in

'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="jeethurao@gmail.com"; hello=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  
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DomainKey-Signature: a=rsa-sha1; c=noaws;  
d=gmail.com; s=gamma;  
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:content-type;  
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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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> 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))

>

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> clearer licensing regime. I am asking as many copyright holders as I can

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>

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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. 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

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PS: Apologies for the delay in my response.

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3 39C2 5CF7<br>

</font></blockquote></div><br><br clear=3D"all"><br>-- <br>Jeethu Rao<br></div></div>

--000e0cd209d0e5a3d40464a23054--

00INDEX This file

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Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):

~~~~~

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

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

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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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=====

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[github.com/armon/go-socks5](https://github.com/armon/go-socks5)  
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github.com/davecgh/go-spew  
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github.com/dustin/go-humanize  
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github.com/eapache/go-resiliency  
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[github.com/eapache/go-xerial-snappy](https://github.com/eapache/go-xerial-snappy)  
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[github.com/eapache/queue](https://github.com/eapache/queue)  
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github.com/golang/snappy  
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[github.com/joeshaw/multierror](https://github.com/joeshaw/multierror)  
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[github.com/klauspost/compress](https://github.com/klauspost/compress)  
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github.com/pierre/gotestcover  
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[github.com/pkg/errors](https://github.com/pkg/errors)  
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[github.com/pmezard/go-difflib](https://github.com/pmezard/go-difflib)  
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[github.com/rcrowley/go-metrics](https://github.com/rcrowley/go-metrics)  
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[github.com/samuel/go-thrift](https://github.com/samuel/go-thrift)  
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[github.com/satori/go.uuid](https://github.com/satori/go.uuid)  
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[github.com/shirou/gopsutil](https://github.com/shirou/gopsutil)  
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[github.com/StackExchange/wmi](https://github.com/StackExchange/wmi)  
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[github.com/stretchr/objx](https://github.com/stretchr/objx)  
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objx - by Mat Ryer and Tyler Bunnell

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[github.com/tsg/gopacket](https://github.com/tsg/gopacket)  
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golang.org/x/net

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gopkg.in/mgo.v2/bson  
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BSON library for Go



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[golang.org/x/crypto](http://golang.org/x/crypto)  
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mgo - MongoDB driver for Go

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```

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```

```
package simulator
```

```
import (
 "github.com/vmware/govmomi/object"
 "github.com/vmware/govmomi/vim25/methods"
 "github.com/vmware/govmomi/vim25/mo"
 "github.com/vmware/govmomi/vim25/soap"
 "github.com/vmware/govmomi/vim25/types"
)
```

```
// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
 LicenseKey: "00000-00000-00000-00000-00000",
 EditionKey: "eval",
 Name: "Evaluation Mode",
 Properties: []types.KeyAnyValue{
 {
 Key: "feature",
 Value: types.KeyValue{
 Key: "serialuri:2",
 Value: "Remote virtual Serial Port Concentrator",
 },
 },
 {
 Key: "feature",
 Value: types.KeyValue{
 Key: "dvs",
 Value: "vSphere Distributed Switch",
 },
 },
 },
}
```

```
type LicenseManager struct {
 mo.LicenseManager
}
```

```
func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
 m := &LicenseManager{ }
 m.Self = ref
 m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
```

```
 if Map.IsVPX() {
```

```

am := Map.Put(&LicenseAssignmentManager{}).Reference()
m.LicenseAssignmentManager = &am
}

return m
}

type LicenseAssignmentManager struct {
mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
{
body := &methods.QueryAssignedLicensesBody{
Res: &types.QueryAssignedLicensesResponse{}},
}

// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
if req.EntityId != Map.content().About.InstanceUuid {
id := types.ManagedObjectReference{
Type: "HostSystem",
Value: req.EntityId,
}

if Map.Get(id) == nil {
return body
}
}
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
{
EntityId: req.EntityId,
AssignedLicense: EvalLicense,
},
}

return body
}

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#

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shawnps

theory

jboverfelt

dsymonds

cd1  
wallclockbuilder  
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<https://github.com/golang/protobuf>

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```

package licenses

```
//go:generate go run ../dev-tools/cmd/license/license_generate.go
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```

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import "fmt"

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```

`

var Elastic = `

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```

`

```
func Find(name string) (string, error) {
 switch name {

 case "ASL2":
 return ASL2, nil
 case "Elastic":
 return Elastic, nil
 }
 return "", fmt.Errorf("unknown license: %s", name)
}
```

Elastic Beats

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=====

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-----  
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Revision: 0f3b54da6bdc2c31c505f9afbc5f434dd2089658  
License type (autodetected): Apache-2.0  
./vendor/github.com/aerospike/aerospike-client-go/LICENSE:  
-----

Apache License 2.0

-----  
Dependency: github.com/aerospike/aerospike-client-go/pkg/bcrypt  
Revision: 0f3b54da6bdc2c31c505f9afbc5f434dd2089658  
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./vendor/github.com/aerospike/aerospike-client-go/pkg/bcrypt/LICENSE:  
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-----  
Dependency: github.com/andrewkroh/sys  
Revision: 287798fe3e430efeb9318b95ff52353aaa2b59b1  
License type (autodetected): BSD-3-Clause  
./vendor/github.com/andrewkroh/sys/LICENSE:  
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-----  
Dependency: github.com/armon/go-socks5  
Revision: e75332964ef517daa070d7c38a9466a0d687e0a5  
License type (autodetected): MIT  
./vendor/github.com/armon/go-socks5/LICENSE:  
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Dependency: github.com/aws/aws-lambda-go
Version: =v1.6.0
Revision: 2d482ef09017ae953b1e8d5a6ddac5b696663a3c
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Version: v2.0.0-preview.5  
Revision: d52522b5f4b95591ff6528d7c54923951aadf099  
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Version: v17  
Revision: 39ca1b05acc7ad1220e09f133283b8859a8b71ab  
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Version: v1.1.0  
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Revision: e6a2ba005892b6a5b27cb5352f64c2e96942dd28  
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Dependency: github.com/eapache/go-resiliency  
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Version: v0.4.0  
Revision: 39073a2988f718067d85d27a4d18b1b57de5d947  
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Version: v0.0.5

Revision: 1425975cf4eb470099fcf02cbe9389cf3a7028a3

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Dependency: github.com/elastic/go-txfile

Version: v0.0.3

Revision: 389b527ad365f6fc6cf5fa7e0ba5a2294ad2f3ed

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Dependency: github.com/elastic/go-ucfg

Version: v0.6.5

Revision: 92d43887f91851c9936621665af7f796f4d03412

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Dependency: github.com/elastic/go-windows

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Version: =v1.0.0/in-cluster-ipv6

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Revision: 0056894fa522748ca336761ffeeeb6bbae654d07  
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Dependency: [github.com/shirou/gopsutil](https://github.com/shirou/gopsutil)  
Version: v2.18.06  
Revision: 4a180b209f5f494e5923cfce81ea30ba23915877  
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Version: =v1.18.0/enh/offset-replica-id  
Revision: 0143592836b090a1b481def4d902cfb3c5c05ae5  
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Version: v0.4.0  
Revision: b139a2487364247d91814e4a7c7b8fdc69e342b2  
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Version: v1.7.1  
Revision: 35aad584952c3e7020db7b839f6b102de6271f89  
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Revision: 44b7c21cbf19450f38b337eb6b6fe4f6496fb5b3  
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Version: release-branch.go1.10  
Revision: 156d532d4f67148ceab07c3b59ed7fa13bdbf00c  
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mgo - MongoDB driver for Go

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BSON library for Go

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package core

import (  
"testing"

"github.com/stretchr/testify/assert"

"github.com/elastic/beats/libbeat/beat"

"github.com/elastic/beats/libbeat/logp"

```

"github.com/elastic/beats/x-pack/functionbeat/licenser"
)

type dummySyncClient struct{ EventCount int }

func (dsc *dummySyncClient) Publish(event beat.Event) error {
 dsc.EventCount++
 return nil
}

func (dsc *dummySyncClient) PublishAll(events []beat.Event) error {
 dsc.EventCount += len(events)
 return nil
}

func (dsc *dummySyncClient) Close() error {
 return nil
}

func (dsc *dummySyncClient) Wait() {}

func TestLicenseAwareClient(t *testing.T) {
 t.Run("publish single event", func(t *testing.T) {
 testPublish(t, func(lac *LicenseAwareClient) (int, error) {
 return 1, lac.Publish(beat.Event{ })
 })
 })

 t.Run("publish multiple events", func(t *testing.T) {
 testPublish(t, func(lac *LicenseAwareClient) (int, error) {
 return 2, lac.PublishAll([]beat.Event{beat.Event{ }, beat.Event{ }})
 })
 })
}

func testPublish(t *testing.T, publish func(lac *LicenseAwareClient) (int, error)) {
 // Create strict license check.
 allowBasic := func(log *logp.Logger, l licenser.License) bool {
 return l.Is(licenser.Basic)
 }

 allowPlatinum := func(log *logp.Logger, l licenser.License) bool {
 return l.Is(licenser.Platinum)
 }

 t.Run("when license is valid first check", func(t *testing.T) {
 license := licenser.License{Mode: licenser.Basic}
 client := &dummySyncClient{ }

```

```

lac := NewLicenseAwareClient(client, allowBasic, allowPlatinum)
defer lac.Close()
lac.OnNewLicense(license)
count, err := publish(lac)
if !assert.NoError(t, err) {
 return
}
assert.Equal(t, count, client.EventCount)
})

t.Run("when license is valid second check", func(t *testing.T) {
 license := licenser.License{Mode: licenser.Platinum}
 client := &dummySyncClient{}
 lac := NewLicenseAwareClient(client, allowBasic, allowPlatinum)
 defer lac.Close()
 lac.OnNewLicense(license)
 count, err := publish(lac)
 if !assert.NoError(t, err) {
 return
 }
 assert.Equal(t, count, client.EventCount)
})

t.Run("when license is not valid", func(t *testing.T) {
 license := licenser.License{Mode: licenser.Gold}
 client := &dummySyncClient{}
 lac := NewLicenseAwareClient(client, allowBasic, allowPlatinum)
 defer lac.Close()
 lac.OnNewLicense(license)
 _, err := publish(lac)
 if assert.Error(t, err, errInvalidLicense) {
 return
 }
 assert.Equal(t, 0, client.EventCount)
})

t.Run("license is invalid by default", func(t *testing.T) {
 client := &dummySyncClient{}
 lac := NewLicenseAwareClient(client, allowBasic, allowPlatinum)
 defer lac.Close()
 _, err := publish(lac)
 if assert.Error(t, err, errInvalidLicense) {
 return
 }
 assert.Equal(t, 0, client.EventCount)
})
}

```

```

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import (
 "errors"

 "github.com/elastic/beats/libbeat/beat"
 "github.com/elastic/beats/libbeat/common/atomic"
 "github.com/elastic/beats/libbeat/logp"
 "github.com/elastic/beats/x-pack/functionbeat/licenser"
)

var errInvalidLicense = errors.New("invalid license detected, cannot publish events")

// LicenseAwareClient is a client that enforce a specific license, the type implements the
// `License.Watcher` interface and will need to be registered to the license manager.
// The client instance will listen to license change and make sure that the required licenses
// match the current license.
type LicenseAwareClient struct {
 checks []licenser.CheckFunc
 client Client
 log *logp.Logger
 valid atomic.Bool
}

// NewLicenseAwareClient returns a new license aware client.
func NewLicenseAwareClient(
 client Client,
 checks ...licenser.CheckFunc,
) *LicenseAwareClient {
 return &LicenseAwareClient{log: logp.NewLogger("license-aware-client"), checks: checks, client: client}
}

// OnNewLicense receives a callback by the license manager when new license is available and control
// if we can send events to the client or not.
func (lac *LicenseAwareClient) OnNewLicense(license licenser.License) {
 valid := licenser.Validate(lac.log, license, lac.checks...)
 lac.valid.Swap(valid)
}

// OnManagerStopped receives a callback from the license manager when the manager is stopped.
func (lac *LicenseAwareClient) OnManagerStopped() {
 // NOOP but need to be implemented for the watcher interface.
}

```



```

// PublishAll check if the license allow us to send events.
func (lac *LicenseAwareClient) PublishAll(events []beat.Event) error {
 if lac.valid.Load() {
 return lac.client.PublishAll(events)
 }
 return errInvalidLicense
}

// Publish check if the license allow us to send events.
func (lac *LicenseAwareClient) Publish(event beat.Event) error {
 if lac.valid.Load() {
 return lac.client.Publish(event)
 }
 return errInvalidLicense
}

// Wait proxy the Wait() call to the original client.
func (lac *LicenseAwareClient) Wait() {
 lac.client.Wait()
}

// Close proxy the Close() call to the original client.
func (lac *LicenseAwareClient) Close() error {
 return lac.client.Close()
}

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package licenser

import (
 "time"

 "github.com/gofrs/uuid"
)

// License represents the license of this beat, the license is fetched and returned from
// the elasticsearch cluster.
//
// The x-pack endpoint returns the following JSON response.
//
// "license": {
// "uid": "936183d8-f48c-4a3f-959a-a52aa2563279",
// "type": "platinum",
// "mode": "platinum",
// "status": "active"
// },

```

```

//
// Definition:
// type is the installed license.
// mode is the license in operation. (effective license)
// status is the type installed is active or not.
type License struct {
 UUID uuid.UUID `json:"uid"`
 Type LicenseType `json:"type"`
 Mode LicenseType `json:"mode"`
 Status State `json:"status"`
 Features features `json:"features"`
 TrialExpiry expiryTime `json:"expiry_date_in_millis,omitempty"`
}

// Features defines the list of features exposed by the elasticsearch cluster.
type features struct {
 Graph graph `json:"graph"`
 Logstash logstash `json:"logstash"`
 ML ml `json:"ml"`
 Monitoring monitoring `json:"monitoring"`
 Rollup rollup `json:"rollup"`
 Security security `json:"security"`
 Watcher watcher `json:"watcher"`
}

type expiryTime time.Time

// Base define the field common for every feature.
type Base struct {
 Enabled bool `json:"enabled"`
 Available bool `json:"available"`
}

// Defines all the available features
type graph struct{ *Base }
type logstash struct{ *Base }
type ml struct{ *Base }
type monitoring struct{ *Base }
type rollup struct{ *Base }
type security struct{ *Base }
type watcher struct{ *Base }

// Get return the current license
func (l *License) Get() LicenseType {
 return l.Mode
}

// Cover returns true if the provided license is included in the range of license.

```

```

//
// Basic -> match basic, gold and platinum
// gold -> match gold and platinum
// platinum -> match platinum only
func (l *License) Cover(license LicenseType) bool {
 if l.Mode >= license {
 return true
 }
 return false
}

// Is returns true if the provided license is an exact match.
func (l *License) Is(license LicenseType) bool {
 return l.Mode == license
}

// IsActive returns true if the current license from the server is active.
func (l *License) IsActive() bool {
 return l.Status == Active
}

// IsTrial returns true if the remote cluster is in trial mode.
func (l *License) IsTrial() bool {
 return l.Mode == Trial
}

// IsTrialExpired returns false if the we are not in trial mode and when we are in trial mode
// we check for the expiry data.
func (l *License) IsTrialExpired() bool {
 if !l.IsTrial() {
 return false
 }

 if time.Time(l.TrialExpiry).Sub(time.Now()) > 0 {
 return false
 }

 return true
}

// EqualTo returns true if the two license are the same, we compare license to reduce the number
// message send to the watchers.
func (l *License) EqualTo(other *License) bool {
 return l.UUID == other.UUID &&
 l.Type == other.Type &&
 l.Mode == other.Mode &&
 l.Status == other.Status
}

```

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```

```
package licenser
```

```
import (
 "testing"
 "time"

 "github.com/stretchr/testify/assert"
)
```

```
func TestLicenseGet(t *testing.T) {
 tests := []struct {
 name string
 t LicenseType
 }{
 {
 name: "Basic",
 t: Basic,
 },
 {
 name: "Platinum",
 t: Platinum,
 },
 }
}
```

```
for _, test := range tests {
 t.Run(test.name, func(t *testing.T) {
 l := License{Mode: test.t}
 assert.Equal(t, test.t, l.Get())
 })
}
}
```

```
func TestLicenseIs(t *testing.T) {
 tests := []struct {
 name string
 t LicenseType
 query LicenseType
 expected bool
 }{
 {
 name: "Basic and asking for Basic",
 t: Basic,
 query: Basic,
 expected: true,
 },
 }
}
```

```

 },
 {
 name: "Platinum and asking for Basic",
 t: Platinum,
 query: Basic,
 expected: true,
 },
 {
 name: "Basic and asking for Platinum",
 t: Basic,
 query: Platinum,
 expected: false,
 },
 {
 name: "Gold and asking for Gold",
 t: Gold,
 query: Gold,
 expected: true,
 },
}

for _, test := range tests {
 t.Run(test.name, func(t *testing.T) {
 l := License{Mode: test.t}
 assert.Equal(t, test.expected, l.Cover(test.query))
 })
}

```

```

func TestLicenseIsStrict(t *testing.T) {
 tests := []struct {
 name string
 t LicenseType
 query LicenseType
 expected bool
 }{
 {
 name: "Basic and asking for Basic",
 t: Basic,
 query: Basic,
 expected: true,
 },
 {
 name: "Platinum and asking for Basic",
 t: Platinum,
 query: Basic,
 expected: false,
 },
 },
}

```

```

{
 name: "Basic and asking for Platinum",
 t: Basic,
 query: Platinum,
 expected: false,
},
{
 name: "Gold and asking for Gold",
 t: Gold,
 query: Gold,
 expected: true,
},
}

```

```

for _, test := range tests {
 t.Run(test.name, func(t *testing.T) {
 l := License{Mode: test.t}
 assert.Equal(t, test.expected, l.Is(test.query))
 })
}
}

```

```

func TestIsActive(t *testing.T) {
 tests := []struct {
 name string
 l License
 expected bool
 }{
 {
 name: "active",
 l: License{Status: Active},
 expected: true,
 },
 {
 name: "inactive",
 l: License{Status: Inactive},
 expected: false,
 },
 }
}

```

```

for _, test := range tests {
 t.Run(test.name, func(t *testing.T) {
 assert.Equal(t, test.expected, test.l.IsActive())
 })
}
}

```

```

func TestIsTrial(t *testing.T) {

```

```

tests := []struct {
 name string
 l License
 expected bool
}{
 {
 name: "is a trial license",
 l: License{Mode: Trial},
 expected: true,
 },
 {
 name: "is not a trial license",
 l: License{Mode: Basic},
 expected: false,
 },
}

for _, test := range tests {
 t.Run(test.name, func(t *testing.T) {
 assert.Equal(t, test.expected, test.l.IsTrial())
 })
}

func TestIsTrialExpired(t *testing.T) {
 tests := []struct {
 name string
 l License
 expected bool
 }{
 {
 name: "trial is expired",
 l: License{Mode: Trial, TrialExpiry: expiryTime(time.Now().Add(-2 * time.Hour))},
 expected: true,
 },
 {
 name: "trial is not expired",
 l: License{Mode: Trial, TrialExpiry: expiryTime(time.Now().Add(2 * time.Minute))},
 expected: false,
 },
 {
 name: "license is not on trial",
 l: License{Mode: Basic, TrialExpiry: expiryTime(time.Now().Add(2 * time.Minute))},
 expected: false,
 },
 }

 for _, test := range tests {

```

```

t.Run(test.name, func(t *testing.T) {
 assert.Equal(t, test.expected, test.l.IsTrialExpired())
})
}
}
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package beater

import (
 "github.com/elastic/beats/libbeat/logp"
 "github.com/elastic/beats/x-pack/functionbeat/licenser"
)

```

```

func checkLicense(log *logp.Logger, license licenser.License) bool {
 return licenser.CheckBasic(log, license) || licenser.CheckTrial(log, license)
}

```

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BSON library for Go

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mgo - MongoDB driver for Go

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

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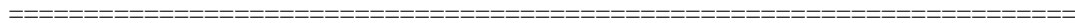
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```
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```
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```

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Version 3, 29 June 2007

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
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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/bdfplib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
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/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftandom/ftandom.c
#
EOF
```

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2006-Jan-27

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```

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```

```
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Ty Coon, President of Vice
```

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## 1.141 fs-extra 8.1.0

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'use strict'

```
const assert = require('assert')
const os = require('os')
const path = require('path')
const fs = require('fs')
const klawSync = require('klaw-sync')
```

```
/* global beforeEach, afterEach, describe, it */
```

```
describe('+ copySync() - prevent copying identical files and dirs', () => {
 let TEST_DIR = ""
 let src = ""
 let dest = ""

 beforeEach(done => {
```

```

TEST_DIR = path.join(os.tmpdir(), 'fs-extra', 'copy-sync-prevent-copying-identical')
fs.emptyDir(TEST_DIR, done)
})

afterEach(done => fs.remove(TEST_DIR, done))

it('should return an error if src and dest are the same', () => {
 const fileSrc = path.join(TEST_DIR, 'TEST_fs-extra_copy_sync')
 const fileDest = path.join(TEST_DIR, 'TEST_fs-extra_copy_sync')
 fs.ensureFileSync(fileSrc)

 try {
 fs.copySync(fileSrc, fileDest)
 } catch (err) {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')
 }
})

describe('dest with parent symlink', () => {
 describe('first parent is symlink', () => {
 it('should error when src is file', () => {
 const src = path.join(TEST_DIR, 'a', 'file.txt')
 const dest = path.join(TEST_DIR, 'b', 'file.txt')
 const srcParent = path.join(TEST_DIR, 'a')
 const destParent = path.join(TEST_DIR, 'b')
 fs.ensureFileSync(src)
 fs.ensureSymlinkSync(srcParent, destParent, 'dir')

 try {
 fs.copySync(src, dest)
 } catch (err) {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')
 } finally {
 assert(fs.existsSync(src))
 }
 })

 it('should error when src is directory', () => {
 const src = path.join(TEST_DIR, 'a', 'foo')
 const dest = path.join(TEST_DIR, 'b', 'foo')
 const srcParent = path.join(TEST_DIR, 'a')
 const destParent = path.join(TEST_DIR, 'b')
 fs.ensureDirSync(src)
 fs.ensureSymlinkSync(srcParent, destParent, 'dir')

 try {
 fs.copySync(src, dest)
 } catch (err) {

```

```

 assert.strictEqual(err.message, 'Source and destination must not be the same.')
 } finally {
 assert(fs.existsSync(src))
 }
})
})

describe('nested dest', () => {
 it('should error when src is file', () => {
 const src = path.join(TEST_DIR, 'a', 'dir', 'file.txt')
 const dest = path.join(TEST_DIR, 'b', 'dir', 'file.txt')
 const srcParent = path.join(TEST_DIR, 'a')
 const destParent = path.join(TEST_DIR, 'b')
 fs.ensureFileSync(src)
 fs.ensureSymlinkSync(srcParent, destParent, 'dir')

 try {
 fs.copySync(src, dest)
 } catch (err) {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')
 } finally {
 assert(fs.existsSync(src))
 }
 })

 it('should error when src is directory', () => {
 const src = path.join(TEST_DIR, 'a', 'dir', 'foo')
 const dest = path.join(TEST_DIR, 'b', 'dir', 'foo')
 const srcParent = path.join(TEST_DIR, 'a')
 const destParent = path.join(TEST_DIR, 'b')
 fs.ensureDirSync(src)
 fs.ensureSymlinkSync(srcParent, destParent, 'dir')

 try {
 fs.copySync(src, dest)
 } catch (err) {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')
 } finally {
 assert(fs.existsSync(src))
 }
 })
})

// src is directory:
// src is regular, dest is symlink
// src is symlink, dest is regular
// src is symlink, dest is symlink

```

```

describe(`> when src is a directory`, () => {
 describe(`>> when src is regular and dest is a symlink that points to src`, () => {
 it('should error', () => {
 src = path.join(TEST_DIR, 'src')
 fs.mkdirSync(src)
 const subdir = path.join(TEST_DIR, 'src', 'subdir')
 fs.mkdirSync(subdir)
 fs.writeFileSync(path.join(subdir, 'file.txt'), 'some data')

 const destLink = path.join(TEST_DIR, 'dest-symlink')
 fs.symlinkSync(src, destLink, 'dir')

 const oldlen = klawSync(src).length

 try {
 fs.copySync(src, destLink)
 } catch (err) {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')
 }

 const newlen = klawSync(src).length
 assert.strictEqual(newlen, oldlen)
 const link = fs.readlinkSync(destLink)
 assert.strictEqual(link, src)
 })
 })

 describe(`>> when src is a symlink that points to a regular dest`, () => {
 it('should throw error', () => {
 dest = path.join(TEST_DIR, 'dest')
 fs.mkdirSync(dest)
 const subdir = path.join(TEST_DIR, 'dest', 'subdir')
 fs.mkdirSync(subdir)
 fs.writeFileSync(path.join(subdir, 'file.txt'), 'some data')

 const srcLink = path.join(TEST_DIR, 'src-symlink')
 fs.symlinkSync(dest, srcLink, 'dir')

 const oldlen = klawSync(dest).length

 try {
 fs.copySync(srcLink, dest)
 } catch (err) {
 assert(err)
 }

 // assert nothing copied

```

```

 const newlen = klawSync(dest).length
 assert.strictEqual(newlen, oldlen)
 const link = fs.readlinkSync(srcLink)
 assert.strictEqual(link, dest)
 })
})

describe('>> when src and dest are symlinks that point to the exact same path', () => {
 it('should error src and dest are the same', () => {
 src = path.join(TEST_DIR, 'src')
 fs.mkdirSync(src)
 const srcLink = path.join(TEST_DIR, 'src_symlink')
 fs.symlinkSync(src, srcLink, 'dir')
 const destLink = path.join(TEST_DIR, 'dest_symlink')
 fs.symlinkSync(src, destLink, 'dir')

 const srclenBefore = klawSync(srcLink).length
 const destlenBefore = klawSync(destLink).length

 try {
 fs.copySync(srcLink, destLink)
 } catch (err) {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')
 }

 const srclenAfter = klawSync(srcLink).length
 assert.strictEqual(srclenAfter, srclenBefore, 'src length should not change')
 const destlenAfter = klawSync(destLink).length
 assert.strictEqual(destlenAfter, destlenBefore, 'dest length should not change')

 const srcln = fs.readlinkSync(srcLink)
 assert.strictEqual(srcln, src)
 const destln = fs.readlinkSync(destLink)
 assert.strictEqual(destln, src)
 })
})

// src is file:
// src is regular, dest is symlink
// src is symlink, dest is regular
// src is symlink, dest is symlink

describe('> when src is a file', () => {
 describe('>> when src is regular and dest is a symlink that points to src', () => {
 it('should error', () => {
 src = path.join(TEST_DIR, 'src', 'somefile.txt')
 fs.ensureFileSync(src)
 })
 })
})

```

```

fs.writeFileSync(src, 'some data')

const destLink = path.join(TEST_DIR, 'dest-symlink')
fs.symlinkSync(src, destLink, 'file')

try {
 fs.copySync(src, destLink)
} catch (err) {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')
}

const link = fs.readlinkSync(destLink)
assert.strictEqual(link, src)
assert(fs.readFileSync(link, 'utf8'), 'some data')
})
})

describe('>> when src is a symlink that points to a regular dest`, () => {
 it('should throw error', () => {
 dest = path.join(TEST_DIR, 'dest', 'somefile.txt')
 fs.outputFileSync(dest, 'some data')

 const srcLink = path.join(TEST_DIR, 'src-symlink')
 fs.symlinkSync(dest, srcLink, 'file')

 try {
 fs.copySync(srcLink, dest)
 } catch (err) {
 assert.ok(err)
 }

 const link = fs.readlinkSync(srcLink)
 assert.strictEqual(link, dest)
 assert(fs.readFileSync(link, 'utf8'), 'some data')
 })
})

describe('>> when src and dest are symlinks that point to the exact same path', () => {
 it('should error src and dest are the same', () => {
 src = path.join(TEST_DIR, 'src', 'srcfile.txt')
 fs.outputFileSync(src, 'src data')

 const srcLink = path.join(TEST_DIR, 'src_symlink')
 fs.symlinkSync(src, srcLink, 'file')

 const destLink = path.join(TEST_DIR, 'dest_symlink')
 fs.symlinkSync(src, destLink, 'file')

 try {

```

```

 fs.copySync(srcLink, destLink)
 } catch (err) {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')
 }

 const srcln = fs.readlinkSync(srcLink)
 assert.strictEqual(srcln, src)
 const destln = fs.readlinkSync(destLink)
 assert.strictEqual(destln, src)
 assert(fs.readFileSync(srcln, 'utf8'), 'src data')
 assert(fs.readFileSync(destln, 'utf8'), 'src data')
})
})
})
})
'use strict'

const assert = require('assert')
const os = require('os')
const path = require('path')
const fs = require('fs')
const klawSync = require('klaw-sync')

/* global beforeEach, afterEach, describe, it */

// these files are used for all tests
const FILES = [
 'file0.txt',
 path.join('dir1', 'file1.txt'),
 path.join('dir1', 'dir2', 'file2.txt'),
 path.join('dir1', 'dir2', 'dir3', 'file3.txt')
]

const dat0 = 'file0'
const dat1 = 'file1'
const dat2 = 'file2'
const dat3 = 'file3'

describe('+ copySync() - prevent copying into itself', () => {
 let TEST_DIR, src

 beforeEach(done => {
 TEST_DIR = path.join(os.tmpdir(), 'fs-extra', 'copy-sync-prevent-copying-into-itself')
 src = path.join(TEST_DIR, 'src')
 fs.mkdirSync(src)

 fs.outputFileSync(path.join(src, FILES[0]), dat0)
 fs.outputFileSync(path.join(src, FILES[1]), dat1)
 })
})

```

```

 fs.outputFileSync(path.join(src, FILES[2]), dat2)
 fs.outputFileSync(path.join(src, FILES[3]), dat3)
 done()
 })

afterEach(done => fs.remove(TEST_DIR, done))

describe('> when source is a file', () => {
 it('should copy the file successfully even if dest parent is a subdir of src', () => {
 const srcFile = path.join(TEST_DIR, 'src', 'srcfile.txt')
 const destFile = path.join(TEST_DIR, 'src', 'dest', 'destfile.txt')
 fs.writeFileSync(srcFile, dat0)

 fs.copySync(srcFile, destFile)

 assert(fs.existsSync(destFile, 'file copied'))
 const out = fs.readFileSync(destFile, 'utf8')
 assert.strictEqual(out, dat0, 'file contents matched')
 })
})

// test for these cases:
// - src is directory, dest is directory
// - src is directory, dest is symlink
// - src is symlink, dest is directory
// - src is symlink, dest is symlink

describe('> when source is a directory', () => {
 describe('>> when dest is a directory', () => {
 it('of not itself', () => {
 const dest = path.join(TEST_DIR, src.replace(/^\w:/, ''))
 return testSuccess(src, dest)
 })
 it('of itself', () => {
 const dest = path.join(src, 'dest')
 return testError(src, dest)
 })
 it('should copy the directory successfully when dest is 'src_dest'', () => {
 const dest = path.join(TEST_DIR, 'src_dest')
 return testSuccess(src, dest)
 })
 it('should copy the directory successfully when dest is 'src-dest'', () => {
 const dest = path.join(TEST_DIR, 'src-dest')
 return testSuccess(src, dest)
 })
 it('should copy the directory successfully when dest is 'dest_src'', () => {
 const dest = path.join(TEST_DIR, 'dest_src')

```



```

 return testSuccess(src, dest)
 })

 it('should copy the directory successfully when dest is 'src_dest/src', () => {
 const dest = path.join(TEST_DIR, 'src_dest', 'src')
 return testSuccess(src, dest)
 })

 it('should copy the directory successfully when dest is 'src-dest/src', () => {
 const dest = path.join(TEST_DIR, 'src-dest', 'src')
 return testSuccess(src, dest)
 })

 it('should copy the directory successfully when dest is 'dest_src/src', () => {
 const dest = path.join(TEST_DIR, 'dest_src', 'src')
 return testSuccess(src, dest)
 })

 it('should copy the directory successfully when dest is 'src_src/dest', () => {
 const dest = path.join(TEST_DIR, 'src_src', 'dest')
 return testSuccess(src, dest)
 })

 it('should copy the directory successfully when dest is 'src-src/dest', () => {
 const dest = path.join(TEST_DIR, 'src-src', 'dest')
 return testSuccess(src, dest)
 })

 it('should copy the directory successfully when dest is 'srcsrc/dest', () => {
 const dest = path.join(TEST_DIR, 'srcsrc', 'dest')
 return testSuccess(src, dest)
 })

 it('should copy the directory successfully when dest is 'dest/src', () => {
 const dest = path.join(TEST_DIR, 'dest', 'src')
 return testSuccess(src, dest)
 })

 it('should copy the directory successfully when dest is very nested that all its parents need to be created', () => {
 const dest = path.join(TEST_DIR, 'dest', 'src', 'foo', 'bar', 'baz', 'qux', 'quux', 'waldo',
 'gault', 'garply', 'fred', 'plugh', 'thud', 'some', 'highly', 'deeply',
 'badly', 'nasty', 'crazy', 'mad', 'nested', 'dest')
 return testSuccess(src, dest)
 })

 it('should error when dest is 'src/dest', () => {
 const dest = path.join(TEST_DIR, 'src', 'dest')
 return testError(src, dest)
 })

```

```

 })

 it('should error when dest is 'src/src_dest'', () => {
 const dest = path.join(TEST_DIR, 'src', 'src_dest')
 return testError(src, dest)
 })

 it('should error when dest is 'src/dest_src'', () => {
 const dest = path.join(TEST_DIR, 'src', 'dest_src')
 return testError(src, dest)
 })

 it('should error when dest is 'src/dest/src'', () => {
 const dest = path.join(TEST_DIR, 'src', 'dest', 'src')
 return testError(src, dest)
 })
 })

 describe('>> when dest is a symlink', () => {
 it('should error when dest points exactly to src', () => {
 const destLink = path.join(TEST_DIR, 'dest-symlink')
 fs.symlinkSync(src, destLink, 'dir')

 const srclenBefore = klawSync(src).length
 assert(srclenBefore > 2)

 try {
 fs.copySync(src, destLink)
 } catch (err) {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')
 }

 const srclenAfter = klawSync(src).length
 assert.strictEqual(srclenAfter, srclenBefore, 'src length should not change')

 const link = fs.readlinkSync(destLink)
 assert.strictEqual(link, src)
 })

 it('should error when dest is a subdirectory of src (bind-mounted directory with subdirectory)', () => {
 const destLink = path.join(TEST_DIR, 'dest-symlink')
 fs.symlinkSync(src, destLink, 'dir')

 const srclenBefore = klawSync(src).length
 assert(srclenBefore > 2)

 const dest = path.join(destLink, 'dir1')
 assert(fs.existsSync(dest))
 })
 })

```

```

let errThrown = false
try {
 fs.copySync(src, dest)
} catch (err) {
 assert.strictEqual(err.message, `Cannot copy '${src}' to a subdirectory of itself, '${dest}'.`)
 errThrown = true
} finally {
 assert(errThrown)
 const srclenAfter = klawSync(src).length
 assert.strictEqual(srclenAfter, srclenBefore, 'src length should not change')

 const link = fs.readlinkSync(destLink)
 assert.strictEqual(link, src)
}
})

it('should error when dest is a subdirectory of src (more than one level depth)', () => {
 const destLink = path.join(TEST_DIR, 'dest-symlink')
 fs.symlinkSync(src, destLink, 'dir')

 const srclenBefore = klawSync(src).length
 assert(srclenBefore > 2)

 const dest = path.join(destLink, 'dir1', 'dir2')
 assert(fs.existsSync(dest))
 let errThrown = false
 try {
 fs.copySync(src, dest)
 } catch (err) {
 assert.strictEqual(err.message, `Cannot copy '${src}' to a subdirectory of itself, '${path.join(destLink, 'dir1')}'.`)
 errThrown = true
 } finally {
 assert(errThrown)
 const srclenAfter = klawSync(src).length
 assert.strictEqual(srclenAfter, srclenBefore, 'src length should not change')

 const link = fs.readlinkSync(destLink)
 assert.strictEqual(link, src)
 }
})

it('should copy the directory successfully when src is a subdir of resolved dest path', () => {
 const srcInDest = path.join(TEST_DIR, 'dest', 'some', 'nested', 'src')
 const destLink = path.join(TEST_DIR, 'dest-symlink')
 fs.copySync(src, srcInDest) // put some stuff in srcInDest

 const dest = path.join(TEST_DIR, 'dest')

```

```

fs.symlinkSync(dest, destLink, 'dir')

const srclen = klawSync(srcInDest).length
const destlenBefore = klawSync(dest).length

assert(srclen > 2)
fs.copySync(srcInDest, destLink)

const destlenAfter = klawSync(dest).length

// assert dest length is oldlen + length of stuff copied from src
assert.strictEqual(destlenAfter, destlenBefore + srclen, 'dest length should be equal to old length + copied
length')

FILES.forEach(f => assert(fs.existsSync(path.join(dest, f)), 'file copied'))

const o0 = fs.readFileSync(path.join(dest, FILES[0]), 'utf8')
const o1 = fs.readFileSync(path.join(dest, FILES[1]), 'utf8')
const o2 = fs.readFileSync(path.join(dest, FILES[2]), 'utf8')
const o3 = fs.readFileSync(path.join(dest, FILES[3]), 'utf8')

assert.strictEqual(o0, dat0, 'files contents matched')
assert.strictEqual(o1, dat1, 'files contents matched')
assert.strictEqual(o2, dat2, 'files contents matched')
assert.strictEqual(o3, dat3, 'files contents matched')
})
})
})

describe('> when source is a symlink', () => {
 describe('>> when dest is a directory', () => {
 it('should error when resolved src path points to dest', () => {
 const srcLink = path.join(TEST_DIR, 'src-symlink')
 fs.symlinkSync(src, srcLink, 'dir')

 const dest = path.join(TEST_DIR, 'src')

 try {
 fs.copySync(srcLink, dest)
 } catch (err) {
 assert(err)
 }
 // assert source not affected
 const link = fs.readlinkSync(srcLink)
 assert.strictEqual(link, src)
 })

 it('should error when dest is a subdir of resolved src path', () => {

```

```

const srcLink = path.join(TEST_DIR, 'src-symlink')
fs.symlinkSync(src, srcLink, 'dir')

const dest = path.join(TEST_DIR, 'src', 'some', 'nested', 'dest')
fs.mkdirSync(dest)

try {
 fs.copySync(srcLink, dest)
} catch (err) {
 assert(err)
}
const link = fs.readlinkSync(srcLink)
assert.strictEqual(link, src)
})

it('should error when resolved src path is a subdir of dest', () => {
 const dest = path.join(TEST_DIR, 'dest')

 const resolvedSrcPath = path.join(dest, 'contains', 'src')
 const srcLink = path.join(TEST_DIR, 'src-symlink')
 fs.copySync(src, resolvedSrcPath)

 // make symlink that points to a subdir in dest
 fs.symlinkSync(resolvedSrcPath, srcLink, 'dir')

 try {
 fs.copySync(srcLink, dest)
 } catch (err) {
 assert(err)
 }
})

it('should copy the directory successfully when dest is 'src_src/dest'', () => {
 const srcLink = path.join(TEST_DIR, 'src-symlink')
 fs.symlinkSync(src, srcLink, 'dir')

 const dest = path.join(TEST_DIR, 'src_src', 'dest')
 testSuccess(srcLink, dest)
 const link = fs.readlinkSync(dest)
 assert.strictEqual(link, src)
})

it('should copy the directory successfully when dest is 'srcsrc/dest'', () => {
 const srcLink = path.join(TEST_DIR, 'src-symlink')
 fs.symlinkSync(src, srcLink, 'dir')

 const dest = path.join(TEST_DIR, 'srcsrc', 'dest')
 testSuccess(srcLink, dest)

```

```

 const link = fs.readlinkSync(dest)
 assert.strictEqual(link, src)
 })
})

describe('>> when dest is a symlink', () => {
 it('should error when resolved dest path is exactly the same as resolved src path', () => {
 const srcLink = path.join(TEST_DIR, 'src-symlink')
 fs.symlinkSync(src, srcLink, 'dir')
 const destLink = path.join(TEST_DIR, 'dest-symlink')
 fs.symlinkSync(src, destLink, 'dir')

 const srclenBefore = klawSync(srcLink).length
 const destlenBefore = klawSync(destLink).length
 assert(srclenBefore > 2)
 assert(destlenBefore > 2)

 try {
 fs.copySync(srcLink, destLink)
 } catch (err) {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')
 } finally {
 const srclenAfter = klawSync(srcLink).length
 assert.strictEqual(srclenAfter, srclenBefore, 'src length should not change')
 const destlenAfter = klawSync(destLink).length
 assert.strictEqual(destlenAfter, destlenBefore, 'dest length should not change')

 const srcln = fs.readlinkSync(srcLink)
 assert.strictEqual(srcln, src)
 const destln = fs.readlinkSync(destLink)
 assert.strictEqual(destln, src)
 }
 })

 it('should error when resolved dest path is a subdir of resolved src path', () => {
 const srcLink = path.join(TEST_DIR, 'src-symlink')
 fs.symlinkSync(src, srcLink, 'dir')

 const destLink = path.join(TEST_DIR, 'dest-symlink')
 const resolvedDestPath = path.join(TEST_DIR, 'src', 'some', 'nested', 'dest')
 fs.ensureFileSync(path.join(resolvedDestPath, 'subdir', 'somefile.txt'))

 fs.symlinkSync(resolvedDestPath, destLink, 'dir')

 try {
 fs.copySync(srcLink, destLink)
 } catch (err) {
 assert.strictEqual(err.message, `Cannot copy '${src}' to a subdirectory of itself, '${resolvedDestPath}'.`)
 }
 })
})

```

```

 } finally {
 const destIn = fs.readlinkSync(destLink)
 assert.strictEqual(destIn, resolvedDestPath)
 }
 })

it('should error when resolved src path is a subdir of resolved dest path', () => {
 const srcInDest = path.join(TEST_DIR, 'dest', 'some', 'nested', 'src')
 const srcLink = path.join(TEST_DIR, 'src-symlink')
 const destLink = path.join(TEST_DIR, 'dest-symlink')

 const dest = path.join(TEST_DIR, 'dest')

 fs.ensureDirSync(srcInDest)
 fs.ensureSymlinkSync(srcInDest, srcLink, 'dir')
 fs.ensureSymlinkSync(dest, destLink, 'dir')

 try {
 fs.copySync(srcLink, destLink)
 } catch (err) {
 assert.strictEqual(err.message, `Cannot overwrite '${dest}' with '${srcInDest}'.`)
 } finally {
 const destIn = fs.readlinkSync(destLink)
 assert.strictEqual(destIn, dest)
 }
})
})
})
})

function testSuccess (src, dest) {
 const srclen = klawSync(src).length
 assert(srclen > 2)

 fs.copySync(src, dest)

 FILES.forEach(f => assert(fs.existsSync(path.join(dest, f)), 'file copied'))

 const o0 = fs.readFileSync(path.join(dest, FILES[0]), 'utf8')
 const o1 = fs.readFileSync(path.join(dest, FILES[1]), 'utf8')
 const o2 = fs.readFileSync(path.join(dest, FILES[2]), 'utf8')
 const o3 = fs.readFileSync(path.join(dest, FILES[3]), 'utf8')

 assert.strictEqual(o0, dat0, 'file contents matched')
 assert.strictEqual(o1, dat1, 'file contents matched')
 assert.strictEqual(o2, dat2, 'file contents matched')
 assert.strictEqual(o3, dat3, 'file contents matched')
}

```

```

function testError (src, dest) {
 try {
 fs.copySync(src, dest)
 } catch (err) {
 assert.strictEqual(err.message, `Cannot copy '${src}' to a subdirectory of itself, '${dest}'.`)
 }
}
}
'use strict'

```

```

const assert = require('assert')
const os = require('os')
const path = require('path')
const fs = require('fs-extra')
const klawSync = require('klaw-sync')

```

```

/* global beforeEach, afterEach, describe, it */

```

```

describe('+ copy() - prevent copying identical files and dirs', () => {
 let TEST_DIR = ""
 let src = ""
 let dest = ""

```

```

 beforeEach(done => {
 TEST_DIR = path.join(os.tmpdir(), 'fs-extra', 'copy-prevent-copying-identical')
 fs.emptyDir(TEST_DIR, done)
 })

```

```

 afterEach(done => fs.remove(TEST_DIR, done))

```

```

 it('should return an error if src and dest are the same', done => {
 const fileSrc = path.join(TEST_DIR, 'TEST_fs-extra_copy')
 const fileDest = path.join(TEST_DIR, 'TEST_fs-extra_copy')
 fs.ensureFileSync(fileSrc)

```

```

 fs.copy(fileSrc, fileDest, err => {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')
 done()
 })
 })

```

```

 describe('dest with parent symlink', () => {
 describe('first parent is symlink', () => {
 it('should error when src is file', done => {
 const src = path.join(TEST_DIR, 'a', 'file.txt')
 const dest = path.join(TEST_DIR, 'b', 'file.txt')
 const srcParent = path.join(TEST_DIR, 'a')
 const destParent = path.join(TEST_DIR, 'b')

```



```

fs.ensureFileSync(src)
fs.ensureSymlinkSync(srcParent, destParent, 'dir')

fs.copy(src, dest, err => {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')
 assert(fs.existsSync(src))
 done()
})
})

it('should error when src is directory', done => {
 const src = path.join(TEST_DIR, 'a', 'foo')
 const dest = path.join(TEST_DIR, 'b', 'foo')
 const srcParent = path.join(TEST_DIR, 'a')
 const destParent = path.join(TEST_DIR, 'b')
 fs.ensureDirSync(src)
 fs.ensureSymlinkSync(srcParent, destParent, 'dir')

 fs.copy(src, dest, err => {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')
 assert(fs.existsSync(src))
 done()
 })
})

describe('nested dest', () => {
 it('should error when src is file', done => {
 const src = path.join(TEST_DIR, 'a', 'dir', 'file.txt')
 const dest = path.join(TEST_DIR, 'b', 'dir', 'file.txt')
 const srcParent = path.join(TEST_DIR, 'a')
 const destParent = path.join(TEST_DIR, 'b')
 fs.ensureFileSync(src)
 fs.ensureSymlinkSync(srcParent, destParent, 'dir')

 fs.copy(src, dest, err => {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')
 assert(fs.existsSync(src))
 done()
 })
 })

 it('should error when src is directory', done => {
 const src = path.join(TEST_DIR, 'a', 'dir', 'foo')
 const dest = path.join(TEST_DIR, 'b', 'dir', 'foo')
 const srcParent = path.join(TEST_DIR, 'a')
 const destParent = path.join(TEST_DIR, 'b')
 fs.ensureDirSync(src)

```

```

fs.ensureSymlinkSync(srcParent, destParent, 'dir')

fs.copy(src, dest, err => {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')
 assert(fs.existsSync(src))
 done()
})
})
})
})

// src is directory:
// src is regular, dest is symlink
// src is symlink, dest is regular
// src is symlink, dest is symlink

describe('> when src is a directory', () => {
 describe('>> when src is regular and dest is a symlink that points to src`, () => {
 it('should error', done => {
 src = path.join(TEST_DIR, 'src')
 fs.mkdirSync(src)
 const subdir = path.join(TEST_DIR, 'src', 'subdir')
 fs.mkdirSync(subdir)
 fs.writeFileSync(path.join(subdir, 'file.txt'), 'some data')

 const destLink = path.join(TEST_DIR, 'dest-symlink')
 fs.symlinkSync(src, destLink, 'dir')

 const oldlen = klawSync(src).length

 fs.copy(src, destLink, err => {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')

 const newlen = klawSync(src).length
 assert.strictEqual(newlen, oldlen)
 const link = fs.readlinkSync(destLink)
 assert.strictEqual(link, src)
 done()
 })
 })
 })
})

describe('>> when src is a symlink that points to a regular dest`, () => {
 it('should throw error', done => {
 dest = path.join(TEST_DIR, 'dest')
 fs.mkdirSync(dest)
 const subdir = path.join(TEST_DIR, 'dest', 'subdir')
 fs.mkdirSync(subdir)
 })
})

```

```

fs.writeFileSync(path.join(subdir, 'file.txt'), 'some data')

const srcLink = path.join(TEST_DIR, 'src-symlink')
fs.symlinkSync(dest, srcLink, 'dir')

const oldlen = klawSync(dest).length

fs.copy(srcLink, dest, err => {
 assert.ok(err)

 // assert nothing copied
 const newlen = klawSync(dest).length
 assert.strictEqual(newlen, oldlen)
 const link = fs.readlinkSync(srcLink)
 assert.strictEqual(link, dest)
 done()
})
})
})

describe('>> when src and dest are symlinks that point to the exact same path', () => {
 it('should error src and dest are the same', done => {
 src = path.join(TEST_DIR, 'src')
 fs.mkdirSync(src)
 const srcLink = path.join(TEST_DIR, 'src_symlink')
 fs.symlinkSync(src, srcLink, 'dir')
 const destLink = path.join(TEST_DIR, 'dest_symlink')
 fs.symlinkSync(src, destLink, 'dir')

 const srclenBefore = klawSync(srcLink).length
 const destlenBefore = klawSync(destLink).length

 fs.copy(srcLink, destLink, err => {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')

 const srclenAfter = klawSync(srcLink).length
 assert.strictEqual(srclenAfter, srclenBefore, 'src length should not change')
 const destlenAfter = klawSync(destLink).length
 assert.strictEqual(destlenAfter, destlenBefore, 'dest length should not change')

 const srcln = fs.readlinkSync(srcLink)
 assert.strictEqual(srcln, src)
 const destln = fs.readlinkSync(destLink)
 assert.strictEqual(destln, src)
 done()
 })
 })
})

```

```

})

// src is file:
// src is regular, dest is symlink
// src is symlink, dest is regular
// src is symlink, dest is symlink

describe('> when src is a file', () => {
 describe('^>> when src is regular and dest is a symlink that points to src`, () => {
 it('should error', done => {
 src = path.join(TEST_DIR, 'src.txt')
 fs.outputFileSync(src, 'some data')

 const destLink = path.join(TEST_DIR, 'dest-symlink')
 fs.symlinkSync(src, destLink, 'file')

 fs.copy(src, destLink, err => {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')
 done()
 })
 })
 })
})

describe('^>> when src is a symlink that points to a regular dest`, () => {
 it('should throw error', done => {
 dest = path.join(TEST_DIR, 'dest', 'somefile.txt')
 fs.outputFileSync(dest, 'some data')

 const srcLink = path.join(TEST_DIR, 'src-symlink')
 fs.symlinkSync(dest, srcLink, 'file')

 fs.copy(srcLink, dest, err => {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')

 const link = fs.readlinkSync(srcLink)
 assert.strictEqual(link, dest)
 assert(fs.readFileSync(link, 'utf8'), 'some data')
 done()
 })
 })
})

describe('>> when src and dest are symlinks that point to the exact same path', () => {
 it('should error src and dest are the same', done => {
 src = path.join(TEST_DIR, 'src', 'srcfile.txt')
 fs.outputFileSync(src, 'src data')

 const srcLink = path.join(TEST_DIR, 'src_symlink')

```

```

fs.symlinkSync(src, srcLink, 'file')

const destLink = path.join(TEST_DIR, 'dest_symlink')
fs.symlinkSync(src, destLink, 'file')

fs.copy(srcLink, destLink, err => {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')

 const srcln = fs.readlinkSync(srcLink)
 assert.strictEqual(srcln, src)
 const destln = fs.readlinkSync(destLink)
 assert.strictEqual(destln, src)
 assert(fs.readFileSync(srcln, 'utf8'), 'src data')
 assert(fs.readFileSync(destln, 'utf8'), 'src data')
 done()
})
})
})
})
})
'use strict'

const assert = require('assert')
const os = require('os')
const path = require('path')
const fs = require('../..')
const klawSync = require('klaw-sync')

/* global beforeEach, afterEach, describe, it */

// these files are used for all tests
const FILES = [
 'file0.txt',
 path.join('dir1', 'file1.txt'),
 path.join('dir1', 'dir2', 'file2.txt'),
 path.join('dir1', 'dir2', 'dir3', 'file3.txt')
]

const dat0 = 'file0'
const dat1 = 'file1'
const dat2 = 'file2'
const dat3 = 'file3'

describe('+ copy() - prevent copying into itself', () => {
 let TEST_DIR, src

 beforeEach(done => {
 TEST_DIR = path.join(os.tmpdir(), 'fs-extra', 'copy-prevent-copying-into-itself')

```

```

src = path.join(TEST_DIR, 'src')
fs.mkdirpSync(src)

fs.outputFileSync(path.join(src, FILES[0]), dat0)
fs.outputFileSync(path.join(src, FILES[1]), dat1)
fs.outputFileSync(path.join(src, FILES[2]), dat2)
fs.outputFileSync(path.join(src, FILES[3]), dat3)
done()
})

afterEach(done => fs.remove(TEST_DIR, done))

describe('> when source is a file', () => {
 it('should copy the file successfully even if dest parent is a subdir of src', done => {
 const srcFile = path.join(TEST_DIR, 'src', 'srcfile.txt')
 const destFile = path.join(TEST_DIR, 'src', 'dest', 'destfile.txt')
 fs.writeFileSync(srcFile, dat0)

 fs.copy(srcFile, destFile, err => {
 assert.ifError(err)

 assert(fs.existsSync(destFile, 'file copied'))
 const out = fs.readFileSync(destFile, 'utf8')
 assert.strictEqual(out, dat0, 'file contents matched')
 done()
 })
 })
})

// test for these cases:
// - src is directory, dest is directory
// - src is directory, dest is symlink
// - src is symlink, dest is directory
// - src is symlink, dest is symlink

describe('> when source is a directory', () => {
 describe('>> when dest is a directory', () => {
 it('of not itself', done => {
 const dest = path.join(TEST_DIR, src.replace(/^\w:/, ''))
 return testSuccess(src, dest, done)
 })
 it('of itself', done => {
 const dest = path.join(src, 'dest')
 return testError(src, dest, done)
 })
 it('should copy the directory successfully when dest is 'src_dest'', done => {
 const dest = path.join(TEST_DIR, 'src_dest')
 return testSuccess(src, dest, done)
 })
 })
})

```

```

 })
 it('should copy the directory successfully when dest is 'src-dest', done => {
 const dest = path.join(TEST_DIR, 'src-dest')
 return testSuccess(src, dest, done)
 })

 it('should copy the directory successfully when dest is 'dest_src', done => {
 const dest = path.join(TEST_DIR, 'dest_src')
 return testSuccess(src, dest, done)
 })

 it('should copy the directory successfully when dest is 'src_dest/src', done => {
 const dest = path.join(TEST_DIR, 'src_dest', 'src')
 return testSuccess(src, dest, done)
 })

 it('should copy the directory successfully when dest is 'src-dest/src', done => {
 const dest = path.join(TEST_DIR, 'src-dest', 'src')
 return testSuccess(src, dest, done)
 })

 it('should copy the directory successfully when dest is 'dest_src/src', done => {
 const dest = path.join(TEST_DIR, 'dest_src', 'src')
 return testSuccess(src, dest, done)
 })

 it('should copy the directory successfully when dest is 'src_src/dest', done => {
 const dest = path.join(TEST_DIR, 'src_src', 'dest')
 return testSuccess(src, dest, done)
 })

 it('should copy the directory successfully when dest is 'src-src/dest', done => {
 const dest = path.join(TEST_DIR, 'src-src', 'dest')
 return testSuccess(src, dest, done)
 })

 it('should copy the directory successfully when dest is 'srcsrc/dest', done => {
 const dest = path.join(TEST_DIR, 'srcsrc', 'dest')
 return testSuccess(src, dest, done)
 })

 it('should copy the directory successfully when dest is 'dest/src', done => {
 const dest = path.join(TEST_DIR, 'dest', 'src')
 return testSuccess(src, dest, done)
 })

 it('should copy the directory successfully when dest is very nested that all its parents need to be created', done =>
 {

```

```

const dest = path.join(TEST_DIR, 'dest', 'src', 'foo', 'bar', 'baz', 'qux', 'quux', 'waldo',
 'grault', 'garply', 'fred', 'plugh', 'thud', 'some', 'highly', 'deeply',
 'badly', 'nasty', 'crazy', 'mad', 'nested', 'dest')
return testSuccess(src, dest, done)
})

it('should error when dest is 'src/dest'', done => {
 const dest = path.join(TEST_DIR, 'src', 'dest')
 return testError(src, dest, done)
})

it('should error when dest is 'src/src_dest'', done => {
 const dest = path.join(TEST_DIR, 'src', 'src_dest')
 return testError(src, dest, done)
})

it('should error when dest is 'src/dest_src'', done => {
 const dest = path.join(TEST_DIR, 'src', 'dest_src')
 return testError(src, dest, done)
})

it('should error when dest is 'src/dest/src'', done => {
 const dest = path.join(TEST_DIR, 'src', 'dest', 'src')
 return testError(src, dest, done)
})
})

describe('>> when dest is a symlink', () => {
 it('should error when dest points exactly to src', done => {
 const destLink = path.join(TEST_DIR, 'dest-symlink')
 fs.symlinkSync(src, destLink, 'dir')

 const srclenBefore = klawSync(src).length
 assert(srclenBefore > 2)

 fs.copy(src, destLink, err => {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')

 const srclenAfter = klawSync(src).length
 assert.strictEqual(srclenAfter, srclenBefore, 'src length should not change')

 const link = fs.readlinkSync(destLink)
 assert.strictEqual(link, src)
 done()
 })
 })
})

it('should error when dest is a subdirectory of src (bind-mounted directory with subdirectory)', done => {

```



```

const destLink = path.join(TEST_DIR, 'dest-symlink')
fs.symlinkSync(src, destLink, 'dir')

const srclenBefore = klawSync(src).length
assert(srclenBefore > 2)

const dest = path.join(destLink, 'dir1')
assert(fs.existsSync(dest))
fs.copy(src, dest, err => {
 assert.strictEqual(err.message, `Cannot copy '${src}' to a subdirectory of itself, '${dest}'.`)

 const srclenAfter = klawSync(src).length
 assert.strictEqual(srclenAfter, srclenBefore, 'src length should not change')

 const link = fs.readlinkSync(destLink)
 assert.strictEqual(link, src)
 done()
})
})

it('should error when dest is a subdirectory of src (more than one level depth)', done => {
 const destLink = path.join(TEST_DIR, 'dest-symlink')
 fs.symlinkSync(src, destLink, 'dir')

 const srclenBefore = klawSync(src).length
 assert(srclenBefore > 2)

 const dest = path.join(destLink, 'dir1', 'dir2')
 assert(fs.existsSync(dest))
 fs.copy(src, dest, err => {
 assert.strictEqual(err.message, `Cannot copy '${src}' to a subdirectory of itself, '${path.join(destLink, 'dir1')}'.`)

 const srclenAfter = klawSync(src).length
 assert.strictEqual(srclenAfter, srclenBefore, 'src length should not change')

 const link = fs.readlinkSync(destLink)
 assert.strictEqual(link, src)
 done()
 })
})

it('should copy the directory successfully when src is a subdir of resolved dest path', done => {
 const srcInDest = path.join(TEST_DIR, 'dest', 'some', 'nested', 'src')
 const destLink = path.join(TEST_DIR, 'dest-symlink')
 fs.copySync(src, srcInDest) // put some stuff in srcInDest

 const dest = path.join(TEST_DIR, 'dest')

```

```

fs.symlinkSync(dest, destLink, 'dir')

const srclen = klawSync(srcInDest).length
const destlenBefore = klawSync(dest).length

assert(srclen > 2)
fs.copy(srcInDest, destLink, err => {
 assert.ifError(err)

 const destlenAfter = klawSync(dest).length

 // assert dest length is oldlen + length of stuff copied from src
 assert.strictEqual(destlenAfter, destlenBefore + srclen, 'dest length should be equal to old length + copied
length')

 FILES.forEach(f => assert(fs.existsSync(path.join(dest, f)), 'file copied'))

 const o0 = fs.readFileSync(path.join(dest, FILES[0]), 'utf8')
 const o1 = fs.readFileSync(path.join(dest, FILES[1]), 'utf8')
 const o2 = fs.readFileSync(path.join(dest, FILES[2]), 'utf8')
 const o3 = fs.readFileSync(path.join(dest, FILES[3]), 'utf8')

 assert.strictEqual(o0, dat0, 'files contents matched')
 assert.strictEqual(o1, dat1, 'files contents matched')
 assert.strictEqual(o2, dat2, 'files contents matched')
 assert.strictEqual(o3, dat3, 'files contents matched')
 done()
})
})
})
})

describe('> when source is a symlink', () => {
 describe('>> when dest is a directory', () => {
 it('should error when resolved src path points to dest', done => {
 const srcLink = path.join(TEST_DIR, 'src-symlink')
 fs.symlinkSync(src, srcLink, 'dir')

 const dest = path.join(TEST_DIR, 'src')

 fs.copy(srcLink, dest, err => {
 assert(err)
 // assert source not affected
 const link = fs.readlinkSync(srcLink)
 assert.strictEqual(link, src)
 done()
 })
 })
 })
})

```

```

it('should error when dest is a subdir of resolved src path', done => {
 const srcLink = path.join(TEST_DIR, 'src-symlink')
 fs.symlinkSync(src, srcLink, 'dir')

 const dest = path.join(TEST_DIR, 'src', 'some', 'nested', 'dest')
 fs.mkdirSync(dest)

 fs.copy(srcLink, dest, err => {
 assert(err)
 const link = fs.readlinkSync(srcLink)
 assert.strictEqual(link, src)
 done()
 })
})

it('should error when resolved src path is a subdir of dest', done => {
 const dest = path.join(TEST_DIR, 'dest')

 const resolvedSrcPath = path.join(dest, 'contains', 'src')
 const srcLink = path.join(TEST_DIR, 'src-symlink')
 fs.copySync(src, resolvedSrcPath)

 // make symlink that points to a subdir in dest
 fs.symlinkSync(resolvedSrcPath, srcLink, 'dir')

 fs.copy(srcLink, dest, err => {
 assert(err)
 done()
 })
})

it('should copy the directory successfully when dest is 'src_src/dest', done => {
 const srcLink = path.join(TEST_DIR, 'src-symlink')
 fs.symlinkSync(src, srcLink, 'dir')

 const dest = path.join(TEST_DIR, 'src_src', 'dest')
 testSuccess(srcLink, dest, () => {
 const link = fs.readlinkSync(dest)
 assert.strictEqual(link, src)
 done()
 })
})

it('should copy the directory successfully when dest is 'srcsrc/dest', done => {
 const srcLink = path.join(TEST_DIR, 'src-symlink')
 fs.symlinkSync(src, srcLink, 'dir')

```

```

const dest = path.join(TEST_DIR, 'srcsrc', 'dest')
testSuccess(srcLink, dest, () => {
 const link = fs.readlinkSync(dest)
 assert.strictEqual(link, src)
 done()
})
})
})

describe('>> when dest is a symlink', () => {
 it('should error when resolved dest path is exactly the same as resolved src path', done => {
 const srcLink = path.join(TEST_DIR, 'src-symlink')
 fs.symlinkSync(src, srcLink, 'dir')
 const destLink = path.join(TEST_DIR, 'dest-symlink')
 fs.symlinkSync(src, destLink, 'dir')

 const srclenBefore = klawSync(srcLink).length
 const destlenBefore = klawSync(destLink).length
 assert(srclenBefore > 2)
 assert(destlenBefore > 2)

 fs.copy(srcLink, destLink, err => {
 assert.strictEqual(err.message, 'Source and destination must not be the same.')

 const srclenAfter = klawSync(srcLink).length
 assert.strictEqual(srclenAfter, srclenBefore, 'src length should not change')
 const destlenAfter = klawSync(destLink).length
 assert.strictEqual(destlenAfter, destlenBefore, 'dest length should not change')

 const srcln = fs.readlinkSync(srcLink)
 assert.strictEqual(srcln, src)
 const destln = fs.readlinkSync(destLink)
 assert.strictEqual(destln, src)
 done()
 })
 })

 it('should error when resolved dest path is a subdir of resolved src path', done => {
 const srcLink = path.join(TEST_DIR, 'src-symlink')
 fs.symlinkSync(src, srcLink, 'dir')

 const destLink = path.join(TEST_DIR, 'dest-symlink')
 const resolvedDestPath = path.join(TEST_DIR, 'src', 'some', 'nested', 'dest')
 fs.ensureFileSync(path.join(resolvedDestPath, 'subdir', 'somefile.txt'))
 fs.symlinkSync(resolvedDestPath, destLink, 'dir')

 fs.copy(srcLink, destLink, err => {
 assert.strictEqual(err.message, `Cannot copy '${src}' to a subdirectory of itself, '${resolvedDestPath}'.`)
 })
 })
})

```

```

 const destIn = fs.readlinkSync(destLink)
 assert.strictEqual(destIn, resolvedDestPath)
 done()
 })
})

it('should error when resolved src path is a subdir of resolved dest path', done => {
 const srcInDest = path.join(TEST_DIR, 'dest', 'some', 'nested', 'src')
 const srcLink = path.join(TEST_DIR, 'src-symlink')
 const destLink = path.join(TEST_DIR, 'dest-symlink')
 const dest = path.join(TEST_DIR, 'dest')

 fs.ensureDirSync(srcInDest)
 fs.ensureSymlinkSync(srcInDest, srcLink, 'dir')
 fs.ensureSymlinkSync(dest, destLink, 'dir')

 fs.copy(srcLink, destLink, err => {
 assert.strictEqual(err.message, `Cannot overwrite '${dest}' with '${srcInDest}'.`)
 const destIn = fs.readlinkSync(destLink)
 assert.strictEqual(destIn, dest)
 done()
 })
})
})
})
})
})

function testSuccess (src, dest, done) {
 const srclen = klawSync(src).length
 assert(srclen > 2)
 fs.copy(src, dest, err => {
 assert.ifError(err)

 FILES.forEach(f => assert(fs.existsSync(path.join(dest, f)), 'file copied'))

 const o0 = fs.readFileSync(path.join(dest, FILES[0]), 'utf8')
 const o1 = fs.readFileSync(path.join(dest, FILES[1]), 'utf8')
 const o2 = fs.readFileSync(path.join(dest, FILES[2]), 'utf8')
 const o3 = fs.readFileSync(path.join(dest, FILES[3]), 'utf8')

 assert.strictEqual(o0, dat0, 'file contents matched')
 assert.strictEqual(o1, dat1, 'file contents matched')
 assert.strictEqual(o2, dat2, 'file contents matched')
 assert.strictEqual(o3, dat3, 'file contents matched')
 done()
 })
}

```

```
function testError (src, dest, done) {
 fs.copy(src, dest, err => {
 assert.strictEqual(err.message, `Cannot copy '${src}' to a subdirectory of itself, '${dest}'.`)
 done()
 })
}
```

## 1.142 fuse 2.9.2 :11.e17

### 1.142.1 Available under license :

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## 1.146 gcc 4.8.5 :36.el7\_6.2

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,

whether or not they are linked directly with the Library itself.

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at 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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Version 2.1, February 1999

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

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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.

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

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

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

```
This program 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, your program's commands might be different; for a GUI interface, you would use an "about box".

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Version 2.1, February 1999

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This option is useful when you wish to copy part of the code of

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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.

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-----	-----
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/\* Use the Sequent Symmetry assembler syntax. \*/

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

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

#define LPREFIX "L"

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

#define ASM\_BYTE "\t.byte\t"

#define ASM\_SHORT "\t.word\t"

#define ASM\_LONG "\t.long\t"

#define ASM\_QUAD "\t.quad\t" /\* Should not be used for 32bit compilation. \*/

/\* This was suggested, but it shouldn't be right for DBX output. -- RMS

#define ASM\_OUTPUT\_SOURCE\_FILENAME(FILE, NAME) \*/

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

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

#define ASM\_OUTPUT\_SKIP(FILE,SIZE) \nfprintf (FILE, "\t.space \"HOST\_WIDE\_INT\_PRINT\_UNSIGNED\"\n", (SIZE))

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

```

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

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

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

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

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

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

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

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

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

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

#define USER_LABEL_PREFIX "_"

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

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

```

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@comment node-name, next, previous, up

@node GNU Free Documentation License, Concept Index, Old, Top

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@html

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@c man begin DESCRIPTION

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@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

Copyright (C) @var{year} @var{name of author}

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@end smallexample

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```
@smallexample
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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample
```

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```
@c man end
```

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

## HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems.

Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

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

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code.

Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).  
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).  
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.  
David Chase, then at Olivetti Research, suggested several improvements.  
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.  
Jesse Hull and John Ellis supplied the C++ interface code.  
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)  
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```
#!/usr/bin/python
#
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#
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the Free Software Foundation; either version 3, or (at your option)
any later version.
#
This script adjusts the copyright notices at the top of source files
so that they have the form:
#
Copyright XXXX-YYYY Free Software Foundation, Inc.
```

```

#
It doesn't change code that is known to be maintained elsewhere or
that carries a non-FSF copyright.
#
The script also doesn't change testsuite files, except those in
libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
while most tests in other directories are just things that failed at some
point in the past.
#
Pass --this-year to the script if you want it to add the current year
to all applicable notices. Pass --quilt if you are using quilt and
want files to be added to the quilt before being changed.
#
By default the script will update all directories for which the
output has been vetted. You can instead pass the names of individual
directories, including those that haven't been approved. So:
#
update-copyright.pl --this-year
#
is the command that would be used at the beginning of a year to update
all copyright notices (and possibly at other times to check whether
new files have been added with old years). On the other hand:
#
update-copyright.pl --this-year libjava
#
would run the script on just libjava/.
#
Note that things like --version output strings must be updated before
this script is run. There's already a separate procedure for that.

```

```

import os
import re
import sys
import time
import subprocess

```

```

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

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

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

```

```

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

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

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

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

 # Skip imported texinfo files.

```

```

 'texinfo.tex',
])

def get_line_filter (self, dir, filename):
 if filename.startswith ('ChangeLog'):
 # Ignore references to copyright in changelog entries.
 return re.compile ('\t')

 return None

def skip_file (self, dir, filename):
 if filename in self.skip_files:
 return True

 (base, extension) = os.path.splitext (os.path.join (dir, filename))
 if extension in self.skip_extensions:
 return True

 if extension == '.in':
 # Skip .in files produced by automake.
 if os.path.exists (base + '.am'):
 return True

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

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

 return False

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

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

```

```

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

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

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

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

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

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

 # Matches a full copyright notice:
 self.copyright_re = re.compile (
 # 1: 'Copyright (C)', etc.
 '[Cc]opyright'
 '|[Cc]opyright\s+\([Cc]\)'
 '|[Cc]opyright\s+%s'
 '|[Cc]opyright\s+©'
 '|[Cc]opyright\s+@copyright{ }'
 '|@set\s+copyright[\w-]+)'

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

def set_use_quilt (self, use_quilt):

```

```

self.use_quilt = use_quilt

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

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

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

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

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

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

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

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

 intro = match.group (1)
 if intro.startswith('@set'):
 # Texinfo year variables should always be on one line
 after_years = line[match.end (2):].strip()
 if after_years != "":
 self.errors.report (pathname,
 'trailing characters in @set: ')

```



```

 + after_years)
 return (False, orig_line, next_line)
else:
 # If it looks like the copyright is incomplete, add the next line.
 while not self.is_complete (match):
 try:
 next_line = file.next()
 except StopIteration:
 break

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

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

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

 holder = match.group (4)

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

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

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

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

 # Make sure the author is given in a consistent way.

```

```

 line = (line[:match.start (4)]
 + canon_form
 + line[match.end (4):])

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

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

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

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

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

return (line != orig_line, line, next_line)

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

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

```

```

next_line = None
Leave filtered-out lines alone.
if not (line_filter and line_filter.match (line)):
 match = self.copyright_re.search (line)
 if match:
 res = self.update_copyright (dir, filename, filter,
 file, line, match)
 (this_changed, line, next_line) = res
 changed = changed or this_changed

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

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

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

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

class CmdLine:
 def __init__ (self, copyright = Copyright):
 self.errors = Errors()
 self.copyright = copyright (self.errors)
 self.dirs = []

```

```

self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []

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

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

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

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

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

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

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

def main (self):
 for arg in sys.argv[1:]:
 if arg[:1] != '-':
 self.chosen_dirs.append (arg)
 elif arg in self.option_handlers:
 self.option_handlers[arg] (arg)

```

```

else:
 self.errors.report (None, 'unrecognised option: ' + arg)
if self.errors.ok():
 if len (self.chosen_dirs) == 0:
 self.chosen_dirs = self.default_dirs
 if len (self.chosen_dirs) == 0:
 self.o_help()
 else:
 for chosen_dir in self.chosen_dirs:
 canon_dir = os.path.join (chosen_dir, "")
 count = 0
 for (dir, filter) in self.dirs:
 if (dir + os.sep).startswith (canon_dir):
 count += 1
 self.copyright.process_tree (dir, filter)
 if count == 0:
 self.errors.report (None, 'unrecognised directory: '
 + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)

#-----

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

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

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

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

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

```

```

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

 # Handled separately.
 'testsuite',
])

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

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

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

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

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

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

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

```

```

GenericFilter.__init__(self)

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

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

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

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

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

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

 # Not really part of the library
 'contrib',

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

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

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

 self.skip_dirs |= set ([
 # Handled separately.

```

```

 'testsuite',
])

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

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

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

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

 # Contains imported images
 'images',
])

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

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

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

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

 self.add_external_author ('ARM')

```



```

self.add_external_author ('AdaCore')
self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author ('Cavium Networks.')
self.add_external_author ('Faraday Technology Corp.')
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self.add_external_author ('Unicode, Inc.')
self.add_external_author ('University of Toronto.')

```

```

class GCCCmdLine (CmdLine):

```

```

 def __init__ (self):
 CmdLine.__init__ (self, GCCCopyright)

 self.add_dir ('.', TopLevelFilter())
 # Boehm-gc is imported from upstream.
 self.add_dir ('config', ConfigFilter())
 # contrib isn't really part of GCC.
 self.add_dir ('fixincludes')
 self.add_dir ('gcc', GCCFilter())
 self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
 self.add_dir ('gnattools')
 self.add_dir ('include')
 self.add_dir ('libada')
 self.add_dir ('libatomic')
 self.add_dir ('libbacktrace')
 self.add_dir ('libcpp', LibCppFilter())
 self.add_dir ('libdecnumber')
 # libffi is imported from upstream.
 self.add_dir ('libgcc', LibGCCFilter())
 self.add_dir ('libgfortran')
 self.add_dir ('libgomp')

```

```

self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libjava', LibJavaFilter())
self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'),
 TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('lto-plugin')
zlib is imported from upstream.

```

```

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

```

GCCcmdLine().main()

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
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href="status.html" title="Chapter1.Status" /><link rel="prev" href="status.html" title="Chapter1.Status" /><link
rel="next" href="bugs.html" title="Bugs" /></head><body><div class="navheader"><table width="100%"
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align="center">Chapter1.Status</th><td width="20%" align="right"><a accesskey="n"
href="bugs.html">Next</td></tr></table><hr /></div><div class="section"><div
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```

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<br />

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<simpara>

Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

</simpara>

</listitem>

<listitem>

<simpara>

Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

</simpara>

</listitem>

<listitem>

<simpara>

Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Documents license notice.

</simpara>

</listitem>

<listitem>

<simpara>

Include an unaltered copy of this License.

</simpara>

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Preserve the section Entitled History, Preserve its Title, and add to it an item stating at least the title, year, new

authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled History in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

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Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the History section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

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<simpara>

For any section Entitled Acknowledgements or Dedications, Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

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<simpara>

Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

</simpara>

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<simpara>

Delete any section Entitled Endorsements. Such a section may not be included in the Modified Version.

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</listitem>

<listitem>

<simpara>

Do not retitle any existing section to be Entitled Endorsements or to conflict in title with any Invariant Section.

</simpara>

</listitem>

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<simpara>

Preserve any Warranty Disclaimers.

</simpara>

</listitem>

</orderedlist>

<simpara>

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Versions license notice. These titles must be distinct from any other section titles.

</simpara>

<simpara>

You may add a section Entitled Endorsements, provided it contains nothing but endorsements of your Modified Version by various parties for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

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You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

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<simpara>

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</simpara>

<bridgehead xml:id="fdl-1-section5" renderas="sect2">

## 5. COMBINING DOCUMENTS

</bridgehead>

<simpara>

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

</simpara>

<simpara>

The combined work need only contain one copy of this License, and multiple

identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

</simpara>

<simpara>

In the combination, you must combine any sections Entitled History in the various original documents, forming one section Entitled History; likewise combine any sections Entitled Acknowledgements, and any sections Entitled Dedications. You must delete all sections Entitled Endorsements.

</simpara>

<bridgehead xml:id="fdl-1-section6" renderas="sect2">

## 6. COLLECTIONS OF DOCUMENTS

</bridgehead>

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<simpara>

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

</simpara>

<bridgehead xml:id="fdl-1-section7" renderas="sect2">

## 7. AGGREGATION WITH INDEPENDENT WORKS

</bridgehead>

<simpara>

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an aggregate if the copyright resulting from the compilation is not used to limit the legal rights of the compilations users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

</simpara>

<simpara>

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire

aggregate, the Documents Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

</simpara>

<bridgehead xml:id="fdl-1-section8" renderas="sect2">

## 8. TRANSLATION

</bridgehead>

<simpara>

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</simpara>

<simpara>

If a section in the Document is Entitled Acknowledgements, Dedications, or History, the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

</simpara>

<bridgehead xml:id="fdl-1-section9" renderas="sect2">

## 9. TERMINATION

</bridgehead>

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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.

</simpara>

<simpara>

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.

</simpara>

<simpara>

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<bridgehead xml:id="fdl-1-section10" renderas="sect2">

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<link xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://www.gnu.org/copyleft/">Copyleft</link>.

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<simpara>

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License or any later version applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

</simpara>

<bridgehead xml:id="fdl-1-section11" renderas="sect2">

## 11. RELICENSING

</bridgehead>

<simpara>

Massive Multiauthor Collaboration Site (or MMC Site) means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A Massive Multiauthor Collaboration (or MMC) contained in the site means any set of copyrightable works thus published on the MMC site.

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</simpara>

<simpara>

Incorporate means to publish or republish a Document, in whole or in part, as part of another Document.

</simpara>

<simpara>

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</simpara>

<simpara>

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</simpara>

<bridgehead xml:id="fdl-1-addendum" renderas="sect2">

ADDENDUM: How to use this License for your documents

</bridgehead>

<simpara>

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

</simpara>

<screen>Copyright YEAR YOUR NAME

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<simpara>

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the with Texts. line with this:

</simpara>

<screen>with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.</screen>

<simpara>

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

</simpara>

<simpara>

If your document contains nontrivial examples of program code, we



recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

</simpara>

</appendix>

<appendix xmlns="http://docbook.org/ns/docbook" version="5.0"

xml:id="appendix.gpl-3.0"><info><title>

<acronym>GNU</acronym> General Public License version 3

</title></info>

<?dbhtml filename="appendix\_gpl.html"?>

<para>

Version 3, 29 June 2007

</para>

<para>

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<link xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://www.fsf.org/">http://www.fsf.org/</link>

</para>

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</para>

<bridgehead xml:id="gpl-3-preamble" renderas="sect1">

Preamble

</bridgehead>

<para>

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</para>

<para>

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the <acronym>GNU</acronym> General Public License is intended to guarantee your freedom to share and change all versions of a program to make sure it remains free software for all its users. We, the Free Software Foundation, use the <acronym>GNU</acronym> General Public License for most of our software; it applies also to any other work released this way by its authors. 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 them 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 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.

</para>

<para>

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.

</para>

<para>

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

</para>

<para>

For the developers 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 xml:id="gpl-3-definitions" 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 xml:id="SourceCode" 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 works 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 xml:id="BasicPermissions" 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 xml:id="Protecting" 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 works users, your or third parties legal rights to forbid circumvention of technological measures.

</para>

<bridgehead xml:id="ConveyingVerbatim" renderas="sect1">

4. Conveying Verbatim Copies.

</bridgehead>

<para>

You may convey verbatim copies of the Programs 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 xml:id="ConveyingModified" 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" inheritnum="ignore" continuation="restarts">

<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 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 xml:id="ConveyingNonSource" 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" inheritnum="ignore" continuation="restarts">

<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 xml:id="AdditionalTerms" renderas="sect1">

7. Additional Terms.

</bridgehead>

<para>

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<bridgehead xml:id="gpl-3-termination" renderas="sect1">

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<bridgehead xml:id="AcceptanceNotRequired" renderas="sect1">

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<bridgehead xml:id="RevisedVersions" renderas="sect1">

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<bridgehead xml:id="LiabilityLimitation" renderas="sect1">

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<bridgehead xml:id="InterpretationSecs1516" renderas="sect1">

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</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
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`</para>`

`</appendix>`

@node Library Copying

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end iftex

@ifinfo

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@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end ifinfo

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of these things:

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@item

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@item

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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.

@item

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

@end enumerate

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@enumerate a

@item

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

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@page

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@smallexample

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@end smallexample

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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
```

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Version 2.1, February 1999

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```
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```

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```
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```

```
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```
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```

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```
package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

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

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



```

public String getName() {
 return NAME;
}

public boolean inField() {
 return true;
}

public boolean inConstructor() {
 return true;
}

public boolean inMethod() {
 return true;
}

public boolean inOverview() {
 return true;
}

public boolean inPackage() {
 return true;
}

public boolean inType() {
 return true;
}

public boolean isInlineTag() {
 return false;
}

public static void register(Map tagletMap) {
 CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
 tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
 return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
 if (tags.length == 0) {
 return null;
 }
 else {
 boolean haveValidTag = false;
 for (int i = 0; i < tags.length && !haveValidTag; ++i) {

```

```

 if (tags[i].text().length() > 0) {
 haveValidTag = true;
 }
 }

 if (haveValidTag) {
 StringBuffer result = new StringBuffer();
 result.append("<dl>");
 for (int i = 0; i < tags.length; i++) {
 if (tags[i].text().length() > 0) {
 result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
 }
 }
 result.append("</dl>");
 return result.toString();
 }
 else {
 return null;
 }
}
}
}
}

```

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

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```
package java.security;
```

```
import gnu.java.lang.CPStringBuilder;
```

```
import java.io.Serializable;
```

```
/**
```

```
* This class is the abstract superclass of all classes that implement
* the concept of a permission. A permission consists of a permission name
* and optionally a list of actions that relate to the permission. The
* actual meaning of the name of the permission is defined only in the
* context of a subclass. It may name a resource to which access permissions
* are granted (for example, the name of a file) or it might represent
* something else entirely. Similarly, the action list only has meaning
* within the context of a subclass. Some permission names may have no
* actions associated with them. That is, you either have the permission
* or you don't.
```

```
*
```

```
* <p>The most important method in this class is <code>implies</code>. This
* checks whether if one has this permission, then the specified
* permission is also implied. As a conceptual example, consider the
* permissions "Read All Files" and "Read File foo". The permission
* "Read All Files" implies that the caller has permission to read the
* file foo.
```

```
*
```

```
* <p><code>Permission</code>'s must be immutable - do not change their
* state after creation.
```

```
*
```

```
* @author Aaron M. Renn (arenn@urbanophile.com)
```

```
* @see Permissions
```

```
* @see PermissionCollection
```

```
* @since 1.1
```

```
* @status updated to 1.4
```

```
*/
```

```
public abstract class Permission implements Guard, Serializable
```

```
{
```

```
/**
```

```

* Compatible with JDK 1.1+.
*/
private static final long serialVersionUID = -563657022231596674L;

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

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

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

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

```

```

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

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

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

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

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

```

```

public PermissionCollection newPermissionCollection()
{
 return null;
}

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

 string = string.append('(');
 string = string.append(getClass().getName());
 string = string.append(' ');
 string = string.append(getName());

 if (!(getActions().equals("")))
 {
 string = string.append(' ');
 string = string.append(getActions());
 }

 string = string.append(')');
 return string.toString();
}
} // class Permission
/* Permission.java -- Information about an ACL permission
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```

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```
package java.security.acl;
```

```
/**
```

```
* This interface provides information about a permission that can be
* granted. Note that this is not the same as the class
* java.security.Permission.
```

```
*
```

```
* @version 0.0
```

```
*
```

```
* @author Aaron M. Renn (arenn@urbanophile.com)
```

```
*/
```

```
public interface Permission
```

```
{
```

```
/**
```

```
* This method tests whether or not a specified Permission
```

```
* (passed as an Object) is the same as this permission.
```

```
*
```

```
* @param perm The permission to check for equality
```

```
*
```

```
* @return true if the specified permission is the same as this one, false otherwise
```

```
*/
```

```
boolean equals (Object perm);
```

```
/**
```

```
* This method returns this Permission as a String.
```

```
*
```

```
* @return A String representing this permission.
```

\*/

```
String toString();
```

```
}
```

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## 1.148 GeolP 1.5.0 :13.el7

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7554cd9344cec97297fa6649b055a8c98c2a1e5

5 :1.0

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

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End

# 1.157 glibc 2.17 :260.e17\_6.6

## 1.157.1 Available under license :

commit ef7344f09c5ce00eb519ed14598b2a8e39c68387

Author: Joseph Myers <joseph@codesourcery.com>

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

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

As discussed in

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

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

Tested x86\_64. The installed shared libraries are identical before and after the patch except for libc.so where the move of wait3.c (included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but the disassembly is unchanged.

\* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.

\* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from sysdeps/unix/bsd/bsd4.4/syscalls.list.

(fchflags): Likewise.

(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 - getdentries 4 __getdentries getdentries
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>

```

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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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Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library 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.

11. 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 Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library 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 Library.

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.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library 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.

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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.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library 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 GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA

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:

Yoyodyne, Inc., hereby disclaims all copyright interest in the 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!

## 1.158 glibmm24 2.56.0 :1.e17

## 1.158.1 Available under license :

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts  
as the successor of the GNU Library Public License, version 2, hence  
the version number 2.1.]

#### Preamble

The licenses for most software are designed to take away your  
freedom to share and change it. By contrast, the GNU General Public  
Licenses are intended to guarantee your freedom to share and change  
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some  
specially designated software packages--typically libraries--of the  
Free Software Foundation and other authors who decide to use it. You  
can use it too, but we suggest you first think carefully about whether  
this license or the ordinary General Public License is the better  
strategy to use in any particular case, based on the explanations  
below.

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  
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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.

^L

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.

^L

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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.

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

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

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

If distribution of object code is made by offering access to copy

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

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

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

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

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

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

^L

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.

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```

*/

#include <glibmm/object.h>
#include <giomm/cancellable.h>
#include <giomm/asyncreult.h>

_DEFS(giomm,gio)
_PINCLUDE(glibmm/private/object_p.h)
_PINCLUDE(gio/gio.h)

namespace Gio
{

/** An object representing the permission to perform a certain action.
 *
 * A Permission represents the status of the caller's permission to
 * perform a certain action.
 *
 * You can query if the action is currently allowed and if it is
 * possible to acquire the permission so that the action will be allowed
 * in the future.
 *
 * There is also an API to actually acquire the permission and one to
 * release it.
 *
 * As an example, a Permission might represent the ability for the
 * user to write to a Settings object. This Permission object could
 * then be used to decide if it is appropriate to show a "Click here to
 * unlock" button in a dialog and to provide the mechanism to invoke
 * when that button is clicked.
 *
 * @newin{2,42}
 */
class Permission : public Glib::Object
{
 _CLASS_GOBJECT(Permission, GPermission, G_PERMISSION, Glib::Object, GObject)

public:

 _WRAP_METHOD(bool acquire(const Glib::RefPtr<Cancellable>& cancellable{?}), g_permission_acquire,
errthrow)
 _WRAP_METHOD(void acquire_async(const SlotAsyncReady& slot{callback}, const
Glib::RefPtr<Cancellable>& cancellable{?.}), g_permission_acquire_async, slot_name slot, slot_callback
SignalProxy_async_callback)
 _WRAP_METHOD(bool acquire_finish(const Glib::RefPtr<AsyncResult>& result), g_permission_acquire_finish,
errthrow)

 _WRAP_METHOD(bool release(const Glib::RefPtr<Cancellable>& cancellable{?}), g_permission_release,

```

```

errthrow)
_WRAP_METHOD(void release_async(const SlotAsyncReady& slot{callback}, const
Glib::RefPtr<Cancellable>& cancellable{.}), g_permission_release_async, slot_name slot, slot_callback
SignalProxy_async_callback)
_WRAP_METHOD(bool release_finish(const Glib::RefPtr<AsyncResult>& result), g_permission_release_finish,
errthrow)

_WRAP_METHOD(bool get_allowed() const, g_permission_get_allowed)
_WRAP_METHOD(bool get_can_acquire() const, g_permission_get_can_acquire)
_WRAP_METHOD(bool get_can_release() const, g_permission_get_can_release)

_WRAP_PROPERTY("allowed", bool)
_WRAP_PROPERTY("can-acquire", bool)
_WRAP_PROPERTY("can-release", bool)

protected:

_CTOR_DEFAULT

// A copy is needed for vfuncs, i.e. Glib::wrap($3, true)
#m4 _CONVERSION(`GAsyncResult*',`const Glib::RefPtr<AsyncResult>&',`Glib::wrap($3, true)')
#m4 _CONVERSION(`GCancellable*',`const Glib::RefPtr<Cancellable>&',`Glib::wrap($3, true)')

_WRAP_VFUNC(bool acquire(const Glib::RefPtr<Cancellable>& cancellable), acquire, errthrow)
_WRAP_VFUNC(void acquire_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>&
cancellable{.}), acquire_async, slot_name slot, slot_callback SignalProxy_async_callback)
_WRAP_VFUNC(bool acquire_finish(const Glib::RefPtr<AsyncResult>& result), acquire_finish, errthrow)

_WRAP_VFUNC(bool release(const Glib::RefPtr<Cancellable>& cancellable), release, errthrow)
_WRAP_VFUNC(void release_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>&
cancellable{.}), release_async, slot_name slot, slot_callback SignalProxy_async_callback)
_WRAP_VFUNC(bool release_finish(const Glib::RefPtr<AsyncResult>& result), release_finish, errthrow)

// You should never call this function except from a Gio::Permission implementation.
_WRAP_METHOD(void impl_update(bool allowed, bool can_acquire, bool can_release),
g_permission_impl_update)
};

} // namespace Gio
// Generated by gmmproc 2.54.1 -- DO NOT MODIFY!
#ifdef _GIOMM_PERMISSION_H
#define _GIOMM_PERMISSION_H

#include <glibmm/ustring.h>
#include <sigc++/sigc++.h>

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```

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 \*/

```
#include <glibmm/object.h>
#include <giomm/cancellable.h>
#include <giomm/asyncreult.h>
```

```
#ifndef DOXYGEN_SHOULD_SKIP_THIS
using GPermission = struct _GPermission;
using GPermissionClass = struct _GPermissionClass;
#endif /* DOXYGEN_SHOULD_SKIP_THIS */
```

```
#ifndef DOXYGEN_SHOULD_SKIP_THIS
namespace Gio
{ class Permission_Class; } // namespace Gio
#endif //DOXYGEN_SHOULD_SKIP_THIS
```

```
namespace Gio
{
```

```
/** An object representing the permission to perform a certain action.
```

```
*
```

```
* A Permission represents the status of the caller's permission to

* perform a certain action.
```

```
*
```

```
* You can query if the action is currently allowed and if it is

* possible to acquire the permission so that the action will be allowed

* in the future.
```

```
*
```

```
* There is also an API to actually acquire the permission and one to

* release it.
```

```
*
```

```
* As an example, a Permission might represent the ability for the

* user to write to a Settings object. This Permission object could
```

```

* then be used to decide if it is appropriate to show a "Click here to
* unlock" button in a dialog and to provide the mechanism to invoke
* when that button is clicked.
*
* @newin{2,42}
*/

```

```

class Permission : public Glib::Object
{

#ifdef DOXYGEN_SHOULD_SKIP_THIS

public:
 using CppObjectType = Permission;
 using CppClassType = Permission_Class;
 using BaseObjectType = GPermission;
 using BaseClassType = GPermissionClass;

 // noncopyable
 Permission(const Permission&) = delete;
 Permission& operator=(const Permission&) = delete;

private: friend class Permission_Class;
 static CppClassType permission_class_;

protected:
 explicit Permission(const Glib::ConstructParams& construct_params);
 explicit Permission(GPermission* castitem);

#endif /* DOXYGEN_SHOULD_SKIP_THIS */

public:

 Permission(Permission&& src) noexcept;
 Permission& operator=(Permission&& src) noexcept;

 ~Permission() noexcept override;

 /** Get the GType for this class, for use with the underlying GObject type system.
 */
 static GType get_type() G_GNUC_CONST;

#ifdef DOXYGEN_SHOULD_SKIP_THIS

 static GType get_base_type() G_GNUC_CONST;
#endif

```



```

///Provides access to the underlying C GObject.
GPermission* gobj() { return reinterpret_cast<GPermission*>(gobject_); }

///Provides access to the underlying C GObject.
const GPermission* gobj() const { return reinterpret_cast<GPermission*>(gobject_); }

///Provides access to the underlying C instance. The caller is responsible for unrefing it. Use when directly setting
fields in structs.
GPermission* gobj_copy();

private:

public:

/** Attempts to acquire the permission represented by @a permission.
 *
 * The precise method by which this happens depends on the permission
 * and the underlying authentication mechanism. A simple example is
 * that a dialog may appear asking the user to enter their password.
 *
 * You should check with g_permission_get_can_acquire() before calling
 * this function.
 *
 * If the permission is acquired then <tt>true</tt> is returned. Otherwise,
 * <tt>false</tt> is returned and @a error is set appropriately.
 *
 * This call is blocking, likely for a very long time (in the case that
 * user interaction is required). See g_permission_acquire_async() for
 * the non-blocking version.
 *
 * @newin{2,26}
 *
 * @param cancellable A Cancellable, or <tt>nullptr</tt>.
 * @return <tt>true</tt> if the permission was successfully acquired.
 *
 * @throws Glib::Error
 */
bool acquire(const Glib::RefPtr<Cancellable>& cancellable);

/// A acquire() convenience overload.
bool acquire();

/** Attempts to acquire the permission represented by @a permission.
 *
 * This is the first half of the asynchronous version of
 * g_permission_acquire().

```

```

*
* @newin{2,26}
*
* @param cancellable A Cancellable, or <tt>nullptr</tt>.
* @param slot The SlotAsyncReady to call when done.
*/
void acquire_async(const SlotAsyncReady& slot, const Glib::RefPtr<Cancellable>& cancellable);

/// A acquire_async() convenience overload.
void acquire_async(const SlotAsyncReady& slot);

/** Collects the result of attempting to acquire the permission
* represented by @a permission.
*
* This is the second half of the asynchronous version of
* g_permission_acquire().
*
* @newin{2,26}
*
* @param result The AsyncResult given to the SlotAsyncReady.
* @return <tt>true</tt> if the permission was successfully acquired.
*
* @throws Glib::Error
*/
bool acquire_finish(const Glib::RefPtr<AsyncResult>& result);

/** Attempts to release the permission represented by @a permission.
*
* The precise method by which this happens depends on the permission
* and the underlying authentication mechanism. In most cases the
* permission will be dropped immediately without further action.
*
* You should check with g_permission_get_can_release() before calling
* this function.
*
* If the permission is released then <tt>true</tt> is returned. Otherwise,
* <tt>false</tt> is returned and @a error is set appropriately.
*
* This call is blocking, likely for a very long time (in the case that
* user interaction is required). See g_permission_release_async() for
* the non-blocking version.
*
* @newin{2,26}
*
* @param cancellable A Cancellable, or <tt>nullptr</tt>.
* @return <tt>true</tt> if the permission was successfully released.
*

```

```

* @throws Glib::Error
*/
bool release(const Glib::RefPtr<Cancellable>& cancellable);

/// A release() convenience overload.
bool release();

/** Attempts to release the permission represented by @a permission.
*
* This is the first half of the asynchronous version of
* g_permission_release().
*
* @newin{2,26}
*
* @param cancellable A Cancellable, or <tt>nullptr</tt>.
* @param slot The SlotAsyncReady to call when done.
*/
void release_async(const SlotAsyncReady& slot, const Glib::RefPtr<Cancellable>& cancellable);

/// A release_async() convenience overload.
void release_async(const SlotAsyncReady& slot);

/** Collects the result of attempting to release the permission
* represented by @a permission.
*
* This is the second half of the asynchronous version of
* g_permission_release().
*
* @newin{2,26}
*
* @param result The AsyncResult given to the SlotAsyncReady.
* @return <tt>true</tt> if the permission was successfully released.
*
* @throws Glib::Error
*/
bool release_finish(const Glib::RefPtr<AsyncResult>& result);

/** Gets the value of the 'allowed' property. This property is <tt>true</tt> if
* the caller currently has permission to perform the action that
* @a permission represents the permission to perform.
*
* @newin{2,26}
*
* @return The value of the 'allowed' property.
*/
bool get_allowed() const;

```

```

/** Gets the value of the 'can-acquire' property. This property is <tt>true</tt>
 * if it is generally possible to acquire the permission by calling
 * g_permission_acquire().
 *
 * @newin{2,26}
 *
 * @return The value of the 'can-acquire' property.
 */
bool get_can_acquire() const;

/** Gets the value of the 'can-release' property. This property is <tt>true</tt>
 * if it is generally possible to release the permission by calling
 * g_permission_release().
 *
 * @newin{2,26}
 *
 * @return The value of the 'can-release' property.
 */
bool get_can_release() const;

/** <tt>true</tt> if the caller currently has permission to perform the action that
 * @a permission represents the permission to perform.
 *
 * Default value: <tt>>false</tt>
 *
 * @return A PropertyProxy_ReadOnly that allows you to get the value of the property,
 * or receive notification when the value of the property changes.
 */
Glib::PropertyProxy_ReadOnly< bool > property_allowed() const;

/** <tt>true</tt> if it is generally possible to acquire the permission by calling
 * g_permission_acquire().
 *
 * Default value: <tt>>false</tt>
 *
 * @return A PropertyProxy_ReadOnly that allows you to get the value of the property,
 * or receive notification when the value of the property changes.
 */
Glib::PropertyProxy_ReadOnly< bool > property_can_acquire() const;

/** <tt>true</tt> if it is generally possible to release the permission by calling
 * g_permission_release().
 *
 * Default value: <tt>>false</tt>
 *
 * @return A PropertyProxy_ReadOnly that allows you to get the value of the property,

```

```

* or receive notification when the value of the property changes.
*/
Glib::PropertyProxy_ReadOnly< bool > property_can_release() const;

protected:

Permission();

// A copy is needed for vfuncs, i.e. Glib::wrap($3, true)

/// @throws Glib::Error.
virtual bool acquire_vfunc(const Glib::RefPtr<Cancellable>& cancellable);

 virtual void acquire_async_vfunc(const SlotAsyncReady& slot, const Glib::RefPtr<Cancellable>& cancellable);

/// @throws Glib::Error.
virtual bool acquire_finish_vfunc(const Glib::RefPtr<AsyncResult>& result);

/// @throws Glib::Error.
virtual bool release_vfunc(const Glib::RefPtr<Cancellable>& cancellable);

 virtual void release_async_vfunc(const SlotAsyncReady& slot, const Glib::RefPtr<Cancellable>& cancellable);

/// @throws Glib::Error.
virtual bool release_finish_vfunc(const Glib::RefPtr<AsyncResult>& result);

// You should never call this function except from a Gio::Permission implementation.

/** This function is called by the Permission implementation to update
 * the properties of the permission. You should never call this
 * function except from a Permission implementation.
 *
 * GObject notify signals are generated, as appropriate.
 *
 * @newin{2,26}
 *
 * @param allowed The new value for the 'allowed' property.
 * @param can_acquire The new value for the 'can-acquire' property.
 * @param can_release The new value for the 'can-release' property.
 */
void impl_update(bool allowed, bool can_acquire, bool can_release);

public:

```

```

public:
//C++ methods used to invoke GTK+ virtual functions:

protected:
//GTK+ Virtual Functions (override these to change behaviour):

//Default Signal Handlers::

};

} // namespace Gio

namespace Glib
{
/** A Glib::wrap() method for this object.
 *
 * @param object The C instance.
 * @param take_copy False if the result should take ownership of the C instance. True if it should take a new copy
or ref.
 * @result A C++ instance that wraps this C instance.
 *
 * @relates Gio::Permission
 */
Glib::RefPtr<Gio::Permission> wrap(GPermission* object, bool take_copy = false);
}

#endif /* _GIOMM_PERMISSION_H */
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```

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```
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```

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## 1.160 gmp 6.1.1

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Version 3, 29 June 2007

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## 1.164 go-bgp 1.8

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# 1.165 go-metrics

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## C

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## 1.168 golang-1.8 1.8.3 :2ubuntu1

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An entry with multiple email addresses specifies that the
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Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: golang

Source: <https://github.com/golang/go>

Files: \*

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Files: include/\*

src/lib9/\*

src/libbio/\*

src/runtime/386/\*

src/libmach/\*

src/runtime/arm/vlop.s

src/runtime/arm/vlrt.c

src/runtime/arm/memset.s

src/runtime/arm/memmove.s

src/runtime/amd64/memmove.s

src/runtime/amd64/memmove.s

src/math/ftasm\_amd64.s

src/cmd/6c/txt.c

src/cmd/gopack/ar.c

src/cmd/ld/lib.[ch]

src/cmd/6a/a.[yh]

src/cmd/6a/lex.c

src/cmd/5g/gobj.c

src/cmd/5g/list.c

src/cmd/5g/gsubr.c

src/cmd/5g/opt.h

src/cmd/8c/\*

src/cmd/goyacc/goyacc.go

src/cmd/5l/\*

src/cmd/6g/reg.c

src/cmd/6g/gobj.c

src/cmd/6g/peep.c

src/cmd/6g/list.c

src/cmd/6g/gsubr.c

src/cmd/6g/opt.c

src/cmd/8l/\*

src/cmd/nm/nm.c

src/cmd/gc/bits.c

src/cmd/cc/\*

src/cmd/5a/\*

src/cmd/8g/reg.c

src/cmd/8g/gobj.c

src/cmd/8g/peep.c

src/cmd/8g/list.c

src/cmd/8g/gsubr.c

src/cmd/8g/opt.h

src/cmd/5c/\*

src/cmd/6l/\*

src/cmd/8a/\*

Origin: Plan 9 from User Space include/, src/lib9/, src/libmach/

Inferno utils/include/, utils/libmach/, utils/6c/, utils/iar/,  
utils/6l/, utils/6a/, utils/5c/, utils/8c/, utils/iyacc/,  
utils/5l/, utils/6c/, utils/8l/, utils/nm/, utils/cc/,  
utils/5a/, utils/8a/, lib9/, libkern/, libbio/

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Portions 1995-2007 C H Forsyth (forsyth@terzarima.net)

Revisions 2000-2007 Lucent Technologies Inc. and others

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Files: src/lib9/goos.c

src/lib9/win32.c

src/lib9/Makefile

src/runtime/386/asm.s

src/runtime/386/closure.c

src/runtime/arm/asm.s

src/runtime/arm/closure.c

src/runtime/arm/cas5.s

src/libmach/fakeobj.c

src/libmach/macho.h

src/cmd/6c/doc.go

src/cmd/6c/Makefile

src/cmd/8c/doc.go

src/cmd/8c/Makefile

src/cmd/5l/doc.go

src/cmd/5l/softfloat.c

src/cmd/5l/Makefile

src/cmd/8l/doc.go

src/cmd/8l/Makefile

src/cmd/cc/doc.go

src/cmd/cc/Makefile

src/cmd/5a/doc.go

src/cmd/5a/Makefile

src/cmd/5c/doc.go

src/cmd/5c/Makefile

src/cmd/6l/doc.go

src/cmd/6l/Makefile

src/cmd/8a/doc.go

src/cmd/8a/Makefile

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Files: include/fmt.h

src/lib9/utf/\*

src/lib9/fmt/\*

src/runtime/rune.c

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Files: src/lib9/utf/mkrunetype.c

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Files: src/cmd/cov/tree.[ch]

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Massachusetts Institute of Technology

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Files: src/cmd/prof/goprof

Origin: based on src/pprof from google-perftools

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License: Perftools

Notes:

This is a copy of <http://google-perftools.googlecode.com/svn/trunk/src/pprof>  
with local modifications to handle generation of SVG images and  
the Go-style pprof paths. These modifications will probably filter  
back into the official source before long.

It's convenient to have a copy here because we need just the one  
Perl script, not all the C++ libraries that surround it.

Files: src/runtime/tiny/bootblock

Origin: Xv6 rev3

Copyright: 2006-2009 Frans Kaashoek, Robert Morris, Russ Cox,  
Massachusetts Institute of Technology

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Files: src/debug/dwarf/testdata/typedef.macho

src/debug/dwarf/testdata/typedef.elf

Source: src/debug/dwarf/testdata/typedef.c

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Files: src/debug/macho/testdata/gcc-amd64-darwin-exec-debug

src/debug/macho/testdata/gcc-386-darwin-exec

src/debug/macho/testdata/gcc-amd64-darwin-exec

src/debug/elf/testdata/go-relocation-test-gcc424-x86-64.o

src/debug/elf/testdata/gcc-amd64-linux-exec

src/debug/elf/testdata/go-relocation-test-gcc441-x86.o

src/debug/elf/testdata/gcc-386-freebsd-exec

src/debug/elf/testdata/go-relocation-test-gcc441-x86-64.o

Source: src/debug/elf/testdata/hello.c

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Files: src/debug/elf/elf.go

src/cmd/ld/elf.h

Origin: FreeBSD src/sys/sys/elf{32,64,\_common}.h, src/sys/\*/include/elf.h

Copyright: 1996-1998 John D. Polstra. All rights reserved.

2001 David E. O'Brien

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Files: src/math/log1p.go

Origin: Translated and simplified from FreeBSD /usr/src/lib/msun/src/s\_log1p.c

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Comment:

The original C code, the long comment, and the constants below are from FreeBSD's /usr/src/lib/msun/src/s\_log1p.c and came with this notice. The go code is a simplified version of the original C.

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Files: src/image/jpeg/idct.go

Origin: Translated from idct.c in the MPEG-2 (ISO/IEC 13818-4)  
technical report video software verifier (mpeg2decode)  
version 960109

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License: MPEG

Files: src/exp/spacewar/pdp1.go  
src/exp/spacewar/spacewar.go

Origin: Translated from the Java emulator pdp1.java in Spacewar!  
Copyright: 1996 Barry Silverman, Brian Silverman, Vadim Gerasimov.  
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Files: src/exp/spacewar/code.go  
Origin: The original Spacewar!  
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This file contains the assembly language and machine code for  
Spacewar!, the original PDP-1 video game. It is downloaded from  
<http://spacewar.oversigma.com/sources/sources.zip> which has  
the following notice at <http://spacewar.oversigma.com/>:

Spacewar! was conceived in 1961 by Martin Graetz, Stephen Russell,  
and Wayne Wiitanen. It was first realized on the PDP-1 in 1962 by  
Stephen Russell, Peter Samson, Dan Edwards, and Martin Graetz,  
together with Alan Kotok, Steve Piner, and Robert A Saunders.  
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This is the original version! Martin Graetz provided us with a  
printed version of the source. We typed in in again - it was about  
40 pages long - and re-assembled it with a PDP-1 assembler written  
in PERL. The resulting binary runs on a PDP-1 emulator written as  
a Java applet. The code is extremely faithful to the original. There  
are only two changes. 1)The spaceships have been made bigger and  
2) The overall timing has been special cased to deal with varying  
machine speeds.

The "a", "s", "d", "f" keys control one of the spaceships. The "k",  
"l", ";", "" keys control the other. The controls are spin one  
way, spin the other, thrust, and fire.

Barry Silverman  
Brian Silverman  
Vadim Gerasimov

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This package and spacewar.go implement a simple PDP-1 emulator complete enough to run the original PDP-1 video game Spacewar! See nacl/README for details on running them.

.  
They are a translation of the Java emulator pdp1.java in <http://spacewar.oversigma.com/sources/sources.zip>.

.  
See also the PDP-1 handbook at <http://www.dbit.com/~greeng3/pdp1/pdp1.html>

.  
<http://spacewar.oversigma.com/readme.html> begins:

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# 1.173 golang.org/x/net 1.0

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## 1.177 gopkg.in/robfig/cron.v2 v2

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## 1.178 gorilla mux master

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## 1.179 govmoni 2.0

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\*/

package license

```
import (
 "context"
```

```
 "github.com/vmware/govmomi/object"
 "github.com/vmware/govmomi/vim25/methods"
 "github.com/vmware/govmomi/vim25/types"
)
```

```
type AssignmentManager struct {
 object.Common
}
```

```
func (m AssignmentManager) QueryAssigned(ctx context.Context, id string)
([]types.LicenseAssignmentManagerLicenseAssignment, error) {
 req := types.QueryAssignedLicenses{
 This: m.Reference(),
 EntityId: id,
 }
}
```

```
res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
if err != nil {
 return nil, err
}
```

```
return res.Returnval, nil
}
```

```
func (m AssignmentManager) Remove(ctx context.Context, id string) error {
 req := types.RemoveAssignedLicense{
 This: m.Reference(),
 EntityId: id,
 }
}
```

```
_, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)
```

```

return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string)
(*types.LicenseManagerLicenseInfo, error) {
req := types.UpdateAssignedLicense{
 This: m.Reference(),
 Entity: id,
 LicenseKey: key,
 EntityDisplayName: name,
}

res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
if err != nil {
 return nil, err
}

return &res.Returnval, nil
}

```

```
/*
```

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```
*/
```

```
package license
```

```
import (
```

```
"context"
```

```
"strconv"
```

```
"strings"
```

```
"github.com/vmware/govmomi/object"
```

```
"github.com/vmware/govmomi/vim25"
```

```
"github.com/vmware/govmomi/vim25/methods"
```

```
"github.com/vmware/govmomi/vim25/mo"
```

```
"github.com/vmware/govmomi/vim25/types"
```

```
)
```

```

type Manager struct {
 object.Common
}

func NewManager(c *vim25.Client) *Manager {
 m := Manager{
 object.NewCommon(c, *c.ServiceContent.LicenseManager),
 }

 return &m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
 r := make([]types.KeyValue, len(m))
 for k, v := range m {
 r = append(r, types.KeyValue{Key: k, Value: v})
 }
 return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string)
(types.LicenseManagerLicenseInfo, error) {
 req := types.AddLicense{
 This: m.Reference(),
 LicenseKey: key,
 Labels: mapToKeyValueSlice(labels),
 }

 res, err := methods.AddLicense(ctx, m.Client(), &req)
 if err != nil {
 return types.LicenseManagerLicenseInfo{ }, err
 }

 return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
 req := types.DecodeLicense{
 This: m.Reference(),
 LicenseKey: key,
 }

 res, err := methods.DecodeLicense(ctx, m.Client(), &req)
 if err != nil {
 return types.LicenseManagerLicenseInfo{ }, err
 }
}

```

```

return res.Returnval, nil
}

func (m Manager) Remove(ctx context.Context, key string) error {
req := types.RemoveLicense{
 This: m.Reference(),
 LicenseKey: key,
}

_, err := methods.RemoveLicense(ctx, m.Client(), &req)
return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string)
(types.LicenseManagerLicenseInfo, error) {
req := types.UpdateLicense{
 This: m.Reference(),
 LicenseKey: key,
 Labels: mapToKeyValueSlice(labels),
}

res, err := methods.UpdateLicense(ctx, m.Client(), &req)
if err != nil {
return types.LicenseManagerLicenseInfo{ }, err
}

return res.Returnval, nil
}

func (m Manager) List(ctx context.Context) (InfoList, error) {
var mlm mo.LicenseManager

err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
if err != nil {
return nil, err
}

return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
var mlm mo.LicenseManager

err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
if err != nil {
return nil, err
}

```

```

if mlm.LicenseAssignmentManager == nil {
 return nil, object.ErrNotSupported
}

am := AssignmentManager{
 object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
}

return &am, nil
}

type licenseFeature struct {
 name string
 level int
}

func parseLicenseFeature(feature string) *licenseFeature {
 lf := new(licenseFeature)

 f := strings.Split(feature, ":")

 lf.name = f[0]

 if len(f) > 1 {
 var err error
 lf.level, err = strconv.Atoi(f[1])
 if err != nil {
 lf.name = feature
 }
 }

 return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
 feature := parseLicenseFeature(key)

 for _, p := range license.Properties {
 if p.Key != "feature" {
 continue
 }

 kv, ok := p.Value.(types.KeyValue)

 if !ok {
 continue
 }
 }
}

```



```

If := parseLicenseFeature(kv.Key)

if If.name == feature.name && If.level >= feature.level {
 return true
}

return false
}

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
 var result InfoList

 for _, license := range l {
 if HasFeature(license, key) {
 result = append(result, license)
 }
 }

 return result
}
original 1505437191 MD5:1812:2ccb03c68cb6c596c0efa8825e3e4031 /main/fuji3/1 assignment_manager.go
original 1505437192 MD5:4282:52fa30ff661f3659ceb3952f42bedfbd /main/fuji3/1 manager.go
/*
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*/

package license

import (
 "context"
 "flag"

```

```

"github.com/vmware/govmomi/govc/cli"
"github.com/vmware/govmomi/govc/flags"
"github.com/vmware/govmomi/license"
"github.com/vmware/govmomi/vim25/types"
)

type assign struct {
 *flags.ClientFlag
 *flags.OutputFlag
 *flags.HostSystemFlag

 name string
 remove bool
}

func init() {
 cli.Register("license.assign", &assign{ })
}

func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {
 cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx, f)

 cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
 cmd.OutputFlag.Register(ctx, f)

 cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
 cmd.HostSystemFlag.Register(ctx, f)

 f.StringVar(&cmd.name, "name", "", "Display name")
 f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

func (cmd *assign) Process(ctx context.Context) error {
 if err := cmd.ClientFlag.Process(ctx); err != nil {
 return err
 }
 if err := cmd.OutputFlag.Process(ctx); err != nil {
 return err
 }
 if err := cmd.HostSystemFlag.Process(ctx); err != nil {
 return err
 }
 return nil
}

func (cmd *assign) Usage() string {
 return "KEY"
}

```

```

}

func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
 if f.NArg() != 1 {
 return flag.ErrHelp
 }

 key := f.Arg(0)

 client, err := cmd.Client()
 if err != nil {
 return err
 }

 m, err := license.NewManager(client).AssignmentManager(ctx)
 if err != nil {
 return err
 }

 host, err := cmd.HostSystemIfSpecified()
 if err != nil {
 return err
 }

 var id string

 if host == nil {
 // Default to vCenter UUID
 id = client.ServiceContent.About.InstanceUuid
 } else {
 id = host.Reference().Value
 }

 if cmd.remove {
 return m.Remove(ctx, id)
 }

 info, err := m.Update(ctx, id, key, cmd.name)
 if err != nil {
 return err
 }

 return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))
}

```

```
/*
```

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\*/

```
package license
```

```
import (
 "context"
 "flag"
 "fmt"

 "github.com/vmware/govmomi/govc/cli"
 "github.com/vmware/govmomi/govc/flags"
 "github.com/vmware/govmomi/license"
 "github.com/vmware/govmomi/vim25/types"
)

type add struct {
 *flags.ClientFlag
 *flags.OutputFlag
}

func init() {
 cli.Register("license.add", &add{})
}

func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {
 cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx, f)

 cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
 cmd.OutputFlag.Register(ctx, f)
}

func (cmd *add) Process(ctx context.Context) error {
 if err := cmd.ClientFlag.Process(ctx); err != nil {
 return err
 }
 if err := cmd.OutputFlag.Process(ctx); err != nil {
 return err
 }
}
```

```

}
return nil
}

func (cmd *add) Usage() string {
return "KEY..."
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
client, err := cmd.Client()
if err != nil {
return err
}

m := license.NewManager(client)

// From the vSphere 5.5 documentation:
//
// To specify the edition type and any optional functions, use
// updateLicense for ESX Server and addLicense follow by
// LicenseAssingmentManager.updateAssignedLicense for VirtualCenter.
//
var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo,
error)
switch t := client.ServiceContent.About.ApiType; t {
case "HostAgent":
addFunc = m.Update
case "VirtualCenter":
addFunc = m.Add
default:
return fmt.Errorf("unsupported ApiType: %s", t)
}

result := make(licenseOutput, 0)
for _, v := range f.Args() {
license, err := addFunc(ctx, v, nil)
if err != nil {
return err
}

result = append(result, license)
}

return cmd.WriteResult(licenseOutput(result))
}
original 1505437078 MD5:2365:4d5906090b985b5a10e16c25abadccb2 /main/fuji3/1 add.go
original 1505437078 MD5:2476:1e688c6a193a74b9feb829d9ad49d69f /main/fuji3/1 assign.go
original 1505437079 MD5:2305:6ee9d4bc791fd735e92f857a794ab660 /main/fuji3/1 assigned.go

```

```
original 1505437080 MD5:1899:36dfc2f11814b39dbbed1100d85fba83 /main/fuji3/1 decode.go
original 1505437081 MD5:1771:541592b6bbe621198e52ca7422b2d542 /main/fuji3/1 ls.go
original 1505437081 MD5:1133:3acc43886945b8b40490c555102e1311 /main/fuji3/1 output.go
original 1505437082 MD5:1649:58aaa5c919c589cb906246b9d40f08f6 /main/fuji3/1 remove.go
/*
```

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```
*/
```

```
package license
```

```
import (
 "fmt"
 "io"
 "os"
 "text/tabwriter"
```

```
 "github.com/vmware/govmomi/vim25/types"
)
```

```
type licenseOutput []types.LicenseManagerLicenseInfo
```

```
func (res licenseOutput) Write(w io.Writer) error {
 tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
 fmt.Fprintf(tw, "Key:\tEdition:\tUsed:\tTotal:\n")
 for _, v := range res {
 fmt.Fprintf(tw, "%s\t", v.LicenseKey)
 fmt.Fprintf(tw, "%s\t", v.EditionKey)
 fmt.Fprintf(tw, "%d\t", v.Used)
 fmt.Fprintf(tw, "%d\t", v.Total)
 fmt.Fprintf(tw, "\n")
 }
 return tw.Flush()
}
```

```
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\*/

package license

```
import (
 "context"
 "flag"

 "github.com/vmware/govmomi/govc/cli"
 "github.com/vmware/govmomi/govc/flags"
 "github.com/vmware/govmomi/license"
)

type remove struct {
 *flags.ClientFlag
 *flags.OutputFlag
}

func init() {
 cli.Register("license.remove", &remove{ })
}

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {
 cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx, f)

 cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
 cmd.OutputFlag.Register(ctx, f)
}

func (cmd *remove) Process(ctx context.Context) error {
 if err := cmd.ClientFlag.Process(ctx); err != nil {
 return err
 }
 if err := cmd.OutputFlag.Process(ctx); err != nil {
 return err
 }
}
```

```

return nil
}

func (cmd *remove) Usage() string {
return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
client, err := cmd.Client()
if err != nil {
return err
}

m := license.NewManager(client)
for _, v := range f.Args() {
err = m.Remove(ctx, v)
if err != nil {
return err
}
}
}

```

```

return nil
}

```

```

/*

```

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```

*/

```

```

package license

```

```

import (
"context"
"flag"

"github.com/vmware/govmomi/govc/cli"
"github.com/vmware/govmomi/govc/flags"
"github.com/vmware/govmomi/license"

```



```

)

var featureUsage = "List licenses with given feature"

type ls struct {
 *flags.ClientFlag
 *flags.OutputFlag

 feature string
}

func init() {
 cli.Register("license.ls", &ls{ })
}

func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
 cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx, f)

 cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
 cmd.OutputFlag.Register(ctx, f)

 f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

func (cmd *ls) Process(ctx context.Context) error {
 if err := cmd.ClientFlag.Process(ctx); err != nil {
 return err
 }
 if err := cmd.OutputFlag.Process(ctx); err != nil {
 return err
 }
 return nil
}

func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {
 client, err := cmd.Client()
 if err != nil {
 return err
 }

 m := license.NewManager(client)
 result, err := m.List(ctx)
 if err != nil {
 return err
 }

 if cmd.feature != "" {

```

```
result = result.WithFeature(cmd.feature)
}
```

```
return cmd.WriteResult(licenseOutput(result))
}
```

```
/*
```

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```
*/
```

```
package license
```

```
import (
 "context"
 "flag"
 "fmt"
 "io"
 "os"
 "text/tabwriter"

 "github.com/vmware/govmomi/govc/cli"
 "github.com/vmware/govmomi/govc/flags"
 "github.com/vmware/govmomi/license"
 "github.com/vmware/govmomi/vim25/types"
)
```

```
type assigned struct {
 *flags.ClientFlag
 *flags.OutputFlag
```

```
id string
}
```

```
func init() {
 cli.Register("license.assigned.ls", &assigned{})
}
```

```

func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {
 cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx, f)

 cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
 cmd.OutputFlag.Register(ctx, f)

 f.StringVar(&cmd.id, "id", "", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {
 if err := cmd.ClientFlag.Process(ctx); err != nil {
 return err
 }
 if err := cmd.OutputFlag.Process(ctx); err != nil {
 return err
 }
 return nil
}

func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
 client, err := cmd.Client()
 if err != nil {
 return err
 }

 m, err := license.NewManager(client).AssignmentManager(ctx)
 if err != nil {
 return err
 }

 assigned, err := m.QueryAssigned(ctx, cmd.id)
 if err != nil {
 return err
 }

 return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
 tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
 fmt.Fprintf(tw, "Id:\tScope:\tName:\tLicense:\n")
 for _, v := range res {
 fmt.Fprintf(tw, "%s\t", v.EntityId)
 fmt.Fprintf(tw, "%s\t", v.Scope)
 fmt.Fprintf(tw, "%s\t", v.EntityDisplayName)
 }
}

```

```

 fmt.Fprintf(tw, "%s\t", v.AssignedLicense.LicenseKey)
 fmt.Fprintf(tw, "\n")
}
return tw.Flush()
}
/*

```

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```
*/
```

```
package license
```

```
import (
 "context"
 "flag"

```

```

 "github.com/vmware/govmomi/govc/cli"
 "github.com/vmware/govmomi/govc/flags"
 "github.com/vmware/govmomi/license"
)

```

```

type decode struct {
 *flags.ClientFlag
 *flags.OutputFlag

```

```

 feature string
}

```

```

func init() {
 cli.Register("license.decode", &decode{ })
}

```

```

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {
 cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx, f)

```

```

 cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
}

```

```

cmd.OutputFlag.Register(ctx, f)

f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

func (cmd *decode) Process(ctx context.Context) error {
if err := cmd.ClientFlag.Process(ctx); err != nil {
return err
}
if err := cmd.OutputFlag.Process(ctx); err != nil {
return err
}
return nil
}

func (cmd *decode) Usage() string {
return "KEY..."
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
client, err := cmd.Client()
if err != nil {
return err
}

var result license.InfoList
m := license.NewManager(client)
for _, v := range f.Args() {
license, err := m.Decode(ctx, v)
if err != nil {
return err
}

result = append(result, license)
}

if cmd.feature != "" {
result = result.WithFeature(cmd.feature)
}

return cmd.WriteResult(licenseOutput(result))
}

#!/usr/bin/env bats

load test_helper

These tests should only run against a server running an evaluation license.
verify_evaluation() {

```

```

if ["$(govc license.ls -json | jq -r .[0].EditionKey)" != "eval"]; then
 skip "requires evaluation license"
fi
}

get_key() {
jq ".[] | select(.LicenseKey == \"$1\")"
}

get_property() {
jq -r ".Properties[] | select(.Key == \"$1\") | .Value"
}

@test "license.add" {
verify_evaluation

run govc license.add -json 00000-00000-00000-00000-00001 00000-00000-00000-00000-00002
assert_success

Expect to see an entry for both the first and the second key
assert_equal "License is not valid for this product" $(get_key 00000-00000-00000-00000-00001 <<<${output} |
get_property diagnostic)
assert_equal "License is not valid for this product" $(get_key 00000-00000-00000-00000-00002 <<<${output} |
get_property diagnostic)
}

@test "license.remove" {
verify_evaluation

run govc license.remove -json 00000-00000-00000-00000-00001
assert_success
}

@test "license.ls" {
verify_evaluation

run govc license.ls -json
assert_success

Expect the test instance to run in evaluation mode
assert_equal "Evaluation Mode" $(get_key 00000-00000-00000-00000-00000 <<<${output} | jq -r ".Name")
}

@test "license.decode" {
verify_evaluation

key=00000-00000-00000-00000-00000
assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
}

```

```
}
People who can (and typically have) contributed to this repository.

This script is generated by contributors.sh
#
```

```
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## 1.180 gpgme 1.3.2 :5.e17

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

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

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## 1.182 grep 2.20 :3.el7

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-----

. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec  
<[mark.martinec@ijs.si](mailto:mark.martinec@ijs.si)>.

Please look into `snprintf.c` for the copyright message.

The complete `snprintf` package together with documentation is available



from

<http://www.ijs.si/software/snprintf/> .

. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

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<http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z> .

```
src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp
```

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

```
src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c
```

src/include/DviChar.h  
src/include/XFontName.h

src/libs/libxutil/DviChar.c  
src/libs/libxutil/XFontName.c

## Macro Packages

-----

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac  
tmac/doc-old.tmac  
tmac/doc-common  
tmac/doc-ditroff  
tmac/doc-nroff  
tmac/doc-syms  
tmac/groff\_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac  
tmac/groff\_me.man  
doc/meintro.me  
doc/meref.me

## Hyphenation Patterns

-----

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

<ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex> .

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

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. The file ``tmac/hyphen.sv'` is identical to the file ``svhyph.tex'`, which can be found at

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. The files ``tmac/hyphen.det'` and ``tmac/hyphen.den'` contain the same patterns as the files ``dehyphn.tex'` and ``dehypht.tex'` (for TeX), which can be found at

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. The file ``tmac/hyphenex.det'` is identical to the file ``dehyphtex.tex'`, which can be found at

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. The file ``tmac/hyphen.cs'` contains the same patterns as the file ``czhyphen.tex'` (for TeX), which can be found in the archive

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\* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.  
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# 1.185 grub2 2.02 :0.76.el7.centos.1

## 1.185.1 Available under license :

From 00000000000000000000000000000000 Mon Sep 17 00:00:00 2001  
From: Vladimir Serbinenko <phcoder@gmail.com>  
Date: Fri, 20 Mar 2015 11:13:58 +0100  
Subject: [PATCH] cacheinfo: Add missing license information.

---

grub-core/commands/cacheinfo.c | 2 ++  
1 file changed, 2 insertions(+)

diff --git a/grub-core/commands/cacheinfo.c b/grub-core/commands/cacheinfo.c

index ead6ff82cfc..d34a346964c 100644

--- a/grub-core/commands/cacheinfo.c

+++ b/grub-core/commands/cacheinfo.c

@@ -23,6 +23,8 @@

#include <grub/i18n.h>

#include <grub/disk.h>

+GRUB\_MOD\_LICENSE ("GPLv3+");

+

static grub\_err\_t

grub\_rescue\_cmd\_info (struct grub\_command \*cmd \_\_attribute\_\_ ((unused)),

int argc \_\_attribute\_\_ ((unused)),

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Version 3, 29 June 2007

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

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From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001  
From: dann frazier <dann.frazier@canonical.com>  
Date: Thu, 21 May 2015 10:28:48 -0600  
Subject: [PATCH] arm64/setjmp: Add missing license macro

Including the setjmp module in an arm64-efi image will cause it to immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a GPLv3+ license using the GRUB\_MOD\_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>

---

grub-core/lib/arm64/setjmp.S | 2 ++  
1 file changed, 2 insertions(+)

diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S  
index adaafe40f71..eabfd99b296 100644

--- a/grub-core/lib/arm64/setjmp.S  
+++ b/grub-core/lib/arm64/setjmp.S  
@@ -17,8 +17,10 @@  
\*/

#include <grub/symbol.h>  
+#include <grub/dl.h>

.file "setjmp.S"  
+GRUB\_MOD\_LICENSE "GPLv3+"  
.text

/\*

From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001  
From: Stephane Rochoy <sheda>  
Date: Sun, 22 Jun 2014 01:35:52 +0200  
Subject: [PATCH] \* grub-core/loader/i386/bsd.c (grub\_netbsd\_boot): Pass pointer to EFI system table.

---

grub-core/loader/i386/bsd.c | 8 +++++++  
include/grub/i386/netbsd\_bootinfo.h | 7 +++++++  
ChangeLog | 5 +++++  
3 files changed, 20 insertions(+)

diff --git a/grub-core/loader/i386/bsd.c b/grub-core/loader/i386/bsd.c  
index 41ef9109ee1..8f691e0e2d1 100644

--- a/grub-core/loader/i386/bsd.c  
+++ b/grub-core/loader/i386/bsd.c  
@@ -1145,6 +1145,14 @@ grub\_netbsd\_boot (void)

```

if (err)
 return err;

+#ifdef GRUB_MACHINE_EFI
+ err = grub_bsd_add_meta (NETBSD_BTINFO_EFI,
+ &grub_efi_system_table,
+ sizeof (grub_efi_system_table));
+ if (err)
+ return err;
+#endif
+
+ {
+ struct bsd_tag *tag;
+ tag_buf_len = 0;
diff --git a/include/grub/i386/netbsd_bootinfo.h b/include/grub/i386/netbsd_bootinfo.h
index e48c19b4089..9b4f4604103 100644
--- a/include/grub/i386/netbsd_bootinfo.h
+++ b/include/grub/i386/netbsd_bootinfo.h
@@ -58,6 +58,8 @@
#define NETBSD_BTINFO_BOOTWEDGE 10
#define NETBSD_BTINFO_MODULES 11
#define NETBSD_BTINFO_FRAMEBUF 12
+#define NETBSD_BTINFO_USERCONFCOMMANDS 13
+#define NETBSD_BTINFO_EFI 14

struct grub_netbsd_bootinfo
{
@@ -146,4 +148,9 @@ struct grub_netbsd_btinfo_framebuf

#define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

+struct grub_netbsd_btinfo_efi
+{
+ void *pa_systbl; /* Physical address of the EFI System Table */
+};
+
+#endif
diff --git a/ChangeLog b/ChangeLog
index abf8f4b2716..0cdd095a498 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,3 +1,8 @@
+2014-06-21 Stephane Rochoy <sheda>
+
+ * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to
+ EFI system table.
+
+2014-06-21 Stephane Rochoy <sheda>

```

# 1.186 grubby 8.28 :25.e17

## 1.186.1 Available under license :

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Version 2, June 1991

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```

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## 1.188 gssproxy 0.7.0 :21.e17

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```
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```

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```
Gnomovision version 69, Copyright (C) 19xx 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.
```

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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 a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program 'Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

That's all there is to it!

## 1.190 guard 2.2.4

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## 1.194 Guava: Google Core Libraries for Java

### 21.0.0 :v20170206-1425

## 1.195 gzip 1.5 :10.e17

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# 1.203

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"http://www.w3.org/TR/html4/loose.dtd">
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<html>
```

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

```
<title>ICU License - ICU 1.8.1 and later</title>
```

```
</head>
```

```
<body BGCOLOR="#ffffff">
```

```
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```
#
```

```
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```

```
</pre>
```

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<p>ICU uses the public domain data and code derived from <a href="http://www.iana.org/time-zones">Time Zone Database</a> for its time zone support. The ownership of the TZ database is explained in <a href="http://tools.ietf.org/html/rfc6557">BCP 175: Procedure for Maintaining the Time Zone Database</a> section 7.</p>

```
<pre>
```

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```
</pre>
```

```
</body>
```

```
</html>
```

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

```
BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
```

```
Copyright (c) 1999-2009, International Business Machines Corporation and
```

```
others. All Rights Reserved.
```

```
Commands to generate dependency files
```

```
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
```

```
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

```
Flags for position independent code
```

```
SHAREDLIBCFLAGS = -fPIC
```

```
SHAREDLIBCXXFLAGS = -fPIC
```

```
SHAREDLIBCPPFLAGS = -DPIC
```

```
Additional flags when building libraries and with threads
```

```
THREADSCPPFLAGS = -D_REENTRANT
```

```
LIBCPPFLAGS =
```

```
Compiler switch to embed a runtime search path
```

```
LD_RPATH=
```

```
LD_RPATH_PRE= -Wl,-rpath,
```

```
Compiler switch to embed a library name
```

```
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
```

```
Shared library options
```

```

LD_SOOPTIONS= -Wl,-Bsymbolic

Shared object suffix
SO = so
Non-shared intermediate object suffix
STATIC_O = ao

Compilation rules
%.${STATIC_O}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O}: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[:]*^1.o $@ : /g\" > $@; \
[-s $@] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[:]*^1.o $@ : /g\" > $@; \
[-s $@] || rm -f $@'

Versioned libraries rules

%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@

End FreeBSD-specific setup

```

## 1.206 identity-obj-proxy 3.0.0

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## 1.207 initscripts 9.49.46 :1.e17

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## 1.222 jackson-databind 2.9.8

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## 1.225 java-diff-utils 4.0

## 1.226 jbigkit 2.0 :11.e17

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 *
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 *
 * $Id: jbig.c 1297 2008-08-27 19:18:37Z mgk25 $
 *
 * This module implements a portable standard C encoder and decoder
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 * specified in International Standard ISO 11544:1993 and
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## 1.227 jest 5.3.4

# 1.228 jest 24.8.0

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# 1.230 jest-html-reporter 2.5.0

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```
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 *
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 * Requires jQuery and raphael.js
 *
 * Version: 1.1.0
 *
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Python was created in the early 1990s by Guido van Rossum at Stichting  
Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands  
as a successor of a language called ABC. Guido remains Python's  
principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see <http://www.opensource.org> for  
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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
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

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## 1.242 kazoo 2.5.0

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## 1.243 kbd 1.15.5 :15.e17









>12 lelong&1 1 with Unicode index

>16 lelong x \b, %d glyphs

>28 lelong x \b, %dx

>24 lelong x \b%d

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<listitem>

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<title>A</title>

<para>

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<listitem>

<formalpara>

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</listitem>

<listitem>

<formalpara>

<title>H</title>

<para>

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</listitem>

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<listitem>
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<title>I</title>
<para>
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sentence.
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<listitem>
<formalpara>
<title>J</title>
<para>
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refers to gives permission.
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</formalpara>
</listitem>
```

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<listitem>
<formalpara>
<title>K</title>
<para>
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<sect1 id="fdl-section5">

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</sect1>

<sect1 id="fdl-section6">

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<sect1 id="fdl-section7">  
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</sect1>

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</sect1>

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<sect1 id="fdl-section10">

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<sect1 id="fdl-using">

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<para>
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License</ulink>, to permit their use in free software.
</para>
```

```
</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
```

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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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```
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\*/

/\*

\* The aim of this program is to compare two builds of the Linux kernel and  
\* list all the ABI differences in the given list of symbols between these two  
\* builds.

\*

\* For both builds the kabi information first needs to be stored in a text  
\* files, see generate(). The the two dumps can be compared, see compare().  
\* The format of the kabi information loosely follow the syntax of the Go  
\* programming language for its ease of parsing.

\*/

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <string.h>
```

```
#include "generate.h"
```

```
#include "compare.h"
```

```
#include "show.h"
```

```
static char *progname;
```

```
void usage(void)
```

```
{
```

```
printf("Usage:\n"
```

```
 "\t %s generate [options] kernel_dir\n"
```

```
 "\t %s show [options] kabi_file...\n"
```

```
 "\t %s compare [options] kabi_dir kabi_dir...\n",
```

```
 progname, progname, progname);
```

```
exit(1);
```

```
}
```

```
int main(int argc, char **argv)
```

```
{
```

```
int ret = 0;
```

```
progname = argv[0];
```

```
if (argc < 2)
```

```
usage();
```

```

argv++; argc--;

if (strcmp(argv[0], "generate") == 0)
 generate(argc, argv);
else if (strcmp(argv[0], "compare") == 0)
 ret = compare(argc, argv);
else if (strcmp(argv[0], "show") == 0)
 ret = show(argc, argv);
else
 usage();

return ret;
}

```

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Version 3, 29 June 2007

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```
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```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
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```

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

```
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```

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Thanks go to the following people for patches and contributions:

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for his work on the initial Linux DVB driver

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Ralph Metzler <rjkm@metzlerbros.de>  
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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.

(If you think you should be in this list, but you are not, drop a  
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## 1.245 kexec-tools 2.0.15 :21.el7\_6.3

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

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

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## 1.247 keyutils-libs 1.5.8 :3.e17

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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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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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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation

=====  
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// Original can be found at:

// <https://bitbucket.org/lindenlab/llsd>

// Modifications by Joshua Bell [inexorable@lindenlab.com](mailto:inexorable@lindenlab.com)

// <https://github.com/inexorable/polyfill>

// ES3/ES5 implementation of the Khronos Typed Array Specification

// Ref: <http://www.khronos.org/registry/typedarray/specs/latest/>

// Date: 2011-02-01

//

// Variations:

// \* Allows `typed_array.get/set()` as alias for subscripts (`typed_array[]`)

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## 1.249 Kibana-5.6.7 5.6.7

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# 1.255 less 458 :9.e17

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## 1.256 less-loader 4.1.0

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## 1.257 less-plugin-npm-import 2.1.0

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## 1.258 libaio 0.3.109 :13.e17

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

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

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

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

threshold for this to be true is not precisely defined by law.

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

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

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

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```
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@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo
@unnumberedsec How to Apply These Terms to Your New Programs
```

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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 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.

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

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@end smallexample

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

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

```
@smallexample
```



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

The hypothetical commands @samp{show w} and @samp{show c} should show 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".

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@end enumerate  
@node Library Copying  
@appendix GNU LESSER GENERAL PUBLIC LICENSE

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

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@appendixsubsec 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.

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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.

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Most GNU software, including some libraries, is covered by the

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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.

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION  
@end iftex  
@ifinfo  
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@enumerate 0

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@end enumerate

@iftex

@heading END OF TERMS AND CONDITIONS

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@center END OF TERMS AND CONDITIONS

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@page

@appendixsubsec 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.

@smallexample

@var{one line to give the library's name and an idea of what it does.}

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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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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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## 1.261 libbasicobjects 0.1.1 :27.el7

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```

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Ty Coon, President of Vice
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## 1.265 libcollection-0.6.2-27.el7.x86\_64 0.6.2 :27.el7

## 1.265.1 Available under license :

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That's all there is to it!

# 1.267 libcwd-guard-perl 0.05 :1

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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## 1.268 libdaemon 0.14 :7.e17

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Version 2.1, February 1999

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Author: Ruben Rodriguez <ruben@trisquel.info>

--- db-5.3.21/src/crypto/mersenne/mt19937db.c.licensefix

+++ db-5.3.21/src/crypto/mersenne/mt19937db.c

```

@@ -16,16 +16,27 @@
/* Coded by Takuji Nishimura, considering the suggestions by */
/* Topher Cooper and Marc Rieffel in July-Aug. 1997. */

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-/* mt19937int.out is attached (2001/4/2) */
-
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+/* REFERENCE */
+/* M. Matsumoto and T. Nishimura, */
+/* "Mersenne Twister: A 623-Dimensionally Equidistributed Uniform */
+/* - */
+
+* Id
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## 1.271 libdrm 2.4.91 :3.el7

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\* \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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<signature of Ty Coon>, 1 April 1989
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----- \*/  
-----\*-C-\*

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## 1.281 libglvnd 1.0.1 :0.8.git5baa1e5.el7

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```
<!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>
 <link rel="stylesheet" type="text/css" href="styles.css" />
 <title>uthash: a hash table for C structures</title>
</head>
<body>

<div id="banner">

</div> <!-- banner -->

<div id="topnav">
uthash home >
BSD license
</div>

<hr />
<div id="mid">
 <div id="main">
<pre>
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```

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</pre>

</div> <!-- mid -->

</div> <!-- main -->

<hr />

<div id="footer">

</div> <!-- footer -->

</body>

</html>

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## 1.282 libgpg-error 1.12 :3.e17

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## 1.285 libini\_config 1.3.0 :27.el7

### 1.285.1 Available under license :

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Version 3, 29 June 2007

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```

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

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

```
<program> Copyright (C) <year> <name of author>
This program 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, your program's commands might be different; for a GUI interface, you would use an "about box".

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# 1.286 libjpeg-turbo 1.2.90 :6.el7

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/\*

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\*/

/\*

\* jcdctmgr.c

\*

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\*

\* This file contains the forward-DCT management logic.

\* This code selects a particular DCT implementation to be used,

```
* and it performs related housekeeping chores including coefficient
* quantization.
*/

/*
* jcdctmgr.c
*
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*
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*/
```

libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo, to wordsmith certain sections, and to remove impolitic language that existed in the libjpeg v8 README. It is included only for reference. Please see README-turbo.txt for information specific to libjpeg-turbo.

#### The Independent JPEG Group's JPEG software

=====

This distribution contains a release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16).

#### DOCUMENTATION ROADMAP

=====

This file contains the following sections:

OVERVIEW        General description of JPEG and the IJG software.  
LEGAL ISSUES    Copyright, lack of warranty, terms of distribution.  
REFERENCES      Where to learn more about JPEG.  
ARCHIVE LOCATIONS Where to find newer versions of this software.  
FILE FORMAT WARS Software \*not\* to get.  
TO DO            Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt     How to configure and install the IJG software.  
usage.txt       Usage instructions for cjpeg, djpeg, jpegtran,  
                 rdjpgcom, and wrjpgcom.  
\*.1             Unix-style man pages for programs (same info as usage.txt).  
wizard.txt      Advanced usage instructions for JPEG wizards only.  
change.log      Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt     How to use the JPEG library in your own programs.  
example.c       Sample code for calling the JPEG library.  
structure.txt    Overview of the JPEG library's internal structure.  
coderules.txt   Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

## OVERVIEW

=====

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are

willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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## LEGAL ISSUES

=====

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3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

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These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce

"uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

## REFERENCES

=====

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of



Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from <http://www.ecma-international.org/publications/techreports/E-TR-098.htm>. A PostScript version of the JFIF document is available at <http://www.ijg.org/files/jfif.ps.gz>. There is also a plain text version at <http://www.ijg.org/files/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <http://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

## ARCHIVE LOCATIONS

=====

The "official" archive site for this software is [www.ijg.org](http://www.ijg.org). The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.ijg.org/files/jpegsr8d.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr8d.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu](http://rtfm.mit.edu): <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body  
send usenet/news.answers/jpeg-faq/part1  
send usenet/news.answers/jpeg-faq/part2

## FILE FORMAT WARS

=====

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO

=====

Please send bug reports, offers of help, etc. to [jpeg-info@jpegclub.org](mailto:jpeg-info@jpegclub.org).

/\*

\* jcdctmgr.c

\*

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\* This file contains the forward-DCT management logic.

\* This code selects a particular DCT implementation to be used,

\* and it performs related housekeeping chores including coefficient

\* quantization.

\*/

\*\*\*\*\*

\*\* Background

\*\*\*\*\*

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java

interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

\*\*\*\*\*  
\*\* License  
\*\*\*\*\*

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

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\*\*\*\*\*  
\*\* Using libjpeg-turbo  
\*\*\*\*\*

libjpeg-turbo includes two APIs that can be used to compress and decompress

JPEG images:

**TurboJPEG API:** This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

**libjpeg API:** This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

=====  
Installation Directory  
=====

This document assumes that libjpeg-turbo will be installed in the default directory (/opt/libjpeg-turbo on Un\*x and Mac systems and c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

=====  
Replacing libjpeg at Run Time  
=====

Un\*x  
----

If a Un\*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD\_LIBRARY\_PATH. For instance:

```
[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.392s
user 0m0.074s
sys 0m0.020s
```

```
[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
```

```
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.109s
user 0m0.029s
sys 0m0.010s
```

{lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the 64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib\* with links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}. This will effectively accelerate every application that uses the libjpeg dynamic library on the system.

## Windows

-----

If a Windows application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by backing up the application's copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its own local copy of this library) and copying the corresponding DLL from libjpeg-turbo into the application's install directory. The official libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg\_stdio\_dest() and jpeg\_stdio\_src().

## Mac

---

Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.\*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install\_name\_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an

advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

```
=====
```

### Using libjpeg-turbo in Your Own Programs

```
=====
```

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un\*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

```
CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}
```

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

```
CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib
```

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un\*x systems, you would still need to manipulate LD\_LIBRARY\_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass `-R /opt/libjpeg-turbo/{lib}` to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un\*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

```
-Wl,-Bstatic -ljpeg -Wl,-Bdynamic
```

On OS X, simply add `/opt/libjpeg-turbo/lib/libjpeg.a` to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add `c:\libjpeg-turbo[64]\include` to the system or user INCLUDE environment variable and `c:\libjpeg-turbo[64]\lib` to the system or user LIB environment variable, and then link against either `jpeg.lib` (to use the DLL version of libjpeg-turbo) or `jpeg-static.lib` (to use the static version of libjpeg-turbo.)

=====  
Colorspace Extensions  
=====

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

```
JCS_EXT_RGB /* red/green/blue */
JCS_EXT_RGBX /* red/green/blue/x */
JCS_EXT_BGR /* blue/green/red */
JCS_EXT_BGRX /* blue/green/red/x */
JCS_EXT_XBGR /* x/blue/green/red */
JCS_EXT_XRGB /* x/red/green/blue */
JCS_EXT_RGBA /* red/green/blue/alpha */
JCS_EXT_BGRA /* blue/green/red/alpha */
JCS_EXT_ABGR /* alpha/blue/green/red */
JCS_EXT_ARGB /* alpha/red/green/blue */
```

Setting `cinfo.in_color_space` (compression) or `cinfo.out_color_space` (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```
#ifdef JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspace during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify `JCS_EXT_RGBA`, `JCS_EXT_BGRA`, `JCS_EXT_ABGR`, or `JCS_EXT_ARGB`. When these colorspace constants are used, the X byte is guaranteed to be `0xFF`, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```
#ifdef JCS_ALPHA_EXTENSIONS
```

`jcstest.c`, located in the libjpeg-turbo source tree, demonstrates how to check

for the existence of the colorspace extensions at compile time and run time.

=====  
libjpeg v7 and v8 API/ABI Emulation  
=====

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of `--with-jpeg7` or `--with-jpeg8` to `configure`, or an argument of `-DWITH_JPEG7=1` or `-DWITH_JPEG8=1` to `cmake`, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:  
-----

Fully supported:

- libjpeg: IDCT scaling extensions in decompressor  
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)
- libjpeg: arithmetic coding
- libjpeg: In-memory source and destination managers  
See notes below.
- cjpeg: Separate quality settings for luminance and chrominance  
Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see `rdswitch.c` for an example.)



- cjpeg: 32-bit BMP support
- cjpeg: -rgb option
- jpegtran: lossless cropping
- jpegtran: -perfect option
- jpegtran: forcing width/height when performing lossless crop
- rdjpgcom: -raw option
- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at <http://www.libjpeg-turbo.org/About/SmartScale> and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor  
cinfo.scale\_num and cinfo.scale\_denom are silently ignored.  
There is no technical reason why DCT scaling could not be supported when emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale  
cinfo.block\_size is silently ignored.  
SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor  
cinfo.do\_fancy\_downsampling is silently ignored.  
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling

This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files

This requires the SmartScale feature, which is not supported.

What About libjpeg v9?

-----

libjpeg v9 introduced yet another field to the JPEG compression structure (color\_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

=====  
In-Memory Source/Destination Managers  
=====

By default, libjpeg-turbo 1.3 and later includes the jpeg\_mem\_src() and jpeg\_mem\_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH\_MEM\_SRCDEST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg\_mem\_src() and jpeg\_mem\_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un\*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un\*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg\_mem\_src() or jpeg\_mem\_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg\_mem\_src() or jpeg\_mem\_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg\_mem\_src() or jpeg\_mem\_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

```

** Mathematical Compatibility

```

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.
- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.
- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.
- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

\*\*\*\*\*  
\*\* Performance Pitfalls  
\*\*\*\*\*

=====  
Restart Markers  
=====

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

=====  
Fast Integer Forward DCT at High Quality Levels  
=====

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

## 1.287 libldb 1.3.4 :1.e17

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## 1.289 libmodman 2.0.1 :8.e17

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## 1.290 libmpc 1.0.1 :3.e17

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

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

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

e) Verify that the user has already received a copy of these

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Ty Coon, President of Vice

That's all there is to it!

# 1.293 libnetfilter\_contrack 1.0.6 :1.el7\_3

## 1.293.1 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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'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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## 1.294.1 Available under license :

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Version 2, June 1991

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

```
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```

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

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# 1.295 libnfsidmap 0.25 :19.el7

## 1.295.1 Available under license :

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

The latest version can always be found at  
<http://www.citi.umich.edu/projects/nfsv4/linux/>

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

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## 1.296 libnl 1.1.4 :3.e17

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## 1.297 libnl3 3.2.28 :4.e17

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```
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```

```
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```
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```

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Glenn Randers-Pehrson  
glennrp at users.sourceforge.net  
September 27, 2012

# 1.303 libproxy 0.4.11 :11.e17

## 1.303.1 Available under license :

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Version 2.1, February 1999

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

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

When a "work that uses the Library" uses material from a header file

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

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at 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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END OF TERMS AND CONDITIONS

## 1.306 libref\_array 0.1.5 :27.el7

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Version 3, 29 June 2007

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## 1.307 libscope-guard-perl 0.20 :1

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Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Maintainer: chocolateboy <[chocolate@cpan.org](mailto:chocolate@cpan.org)>

Source: <http://search.cpan.org/dist/Scope-Guard/>

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Upstream-Contact: chocolateboy <chocolate@cpan.org>

Source: <https://metacpan.org/release/Scope-Guard>

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a

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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,

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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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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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# 1.312 libsepol 2.5 :10.el7

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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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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.

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## 1.314 libSM 1.2.2 :2.e17

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## 1.315 libsoup 2.62.2 :2.e17

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

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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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## 1.316 libssh2 1.4.3 :12.el7\_6.2

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## 1.318 libtalloc 2.1.13 :1.el7

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/\*

Unix SMB/CIFS implementation.

local testing of talloc routines.

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# 1.319 libtasn1 4.10 :1.e17

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#!/bin/sh

# Get modification time of a file or directory and pretty-print it.

scriptversion=2010-08-21.06; # UTC

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# written by Ulrich Drepper <[drepper@gnu.ai.mit.edu](mailto:drepper@gnu.ai.mit.edu)>, June 1995

#

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Version 2.1, February 1999

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## 1.322 libtevent 0.9.36 :1.e17

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/\*

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# 1.323 libthai 0.1.14 :9.e17

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- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain

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```
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# 1.328 libuser 0.60 :9.e17

## 1.328.1 Available under license :

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Version 2, June 1991

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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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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

5. A program that contains no derivative of any portion of the

Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

6. As an exception to the Sections above, you may also 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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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.

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## 1.329 libutempter 1.1.6 :4.e17

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## 1.334 libXdamage 1.1.4 :4.1.e17

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## 1.335 libXdmpc 1.1.2 :6.e17

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## 1.336 libXext 1.3.3 :3.el7

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## 1.337 libXfixes 5.0.3 :1.el7

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/\* lib/font/fontfile/gunzip.c

written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.

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## 1.340 libXi 1.7.9 :1.e17

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## 1.341 libxkbfile 1.0.9 :3.el7

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\* \$Id\$

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\*/

\*

\* Private functions, types, etc. used for callback functions.

\*

\* The ref pointer is an opaque type and should remain as such.

```

* Private data must only be accessible through the getter and
* setter functions.
*
*****/
libtool (GNU libtool) 2.4.2
Written by Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996

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# 1.351 linux-firmware 20180220

## :62.git6d51311.el7

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Fast discrete Fourier and cosine transforms and inverses

author: Monty <xiphmont@mit.edu>

modifications by: Monty

last modification date: Jul 1 1996

/\* These Fourier routines were originally based on the Fourier routines of the same names from the NETLIB bihar and fftpack fortran libraries developed by Paul N. Swarztrauber at the National Center for Atmospheric Research in Boulder, CO USA. They have been reimplemented in C and optimized in a few ways for OggSquish. \*/

/\* As the original fortran libraries are public domain, the C Fourier routines in this file are hereby released to the public domain as well. The C routines here produce output exactly equivalent to the original fortran routines. Of particular interest are the facts that (like the original fortran), these routines can work on arbitrary length vectors that need not be powers of two in length. \*/

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Chelsio Communication Terminator 4/5 ethernet controller firmware

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The README file from the original package from Micronas appears below. Only the part about the firmware redistribution in section 0 is relevant, all other sections are completely obsolete.

-----  
WIS GO7007SB Public Linux Driver  
-----

\*\*\* Please see the file RELEASE-NOTES for important last-minute updates \*\*\*

#### 0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).

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## 1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from `"/lib/modules/<KERNEL VERSION>/build"` for convenience. If this link does not exist, an extra parameter will need to be passed to the ``make`` command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

CONFIG_HOTPLUG	- Support for hot-pluggable devices
CONFIG_MODULES	- Enable loadable module support
CONFIG_KMOD	- Automatic kernel module loading
CONFIG_FW_LOADER	- Hotplug firmware loading support
CONFIG_I2C	- I2C support
CONFIG_VIDEO_DEV	- Video For Linux
CONFIG_SOUND	- Sound card support
CONFIG_SND	- Advanced Linux Sound Architecture
CONFIG_USB	- Support for Host-side USB
CONFIG_USB_DEVICEFS	- USB device filesystem
CONFIG_USB_EHCI_HCD	- EHCI HCD (USB 2.0) support

Additionally, to use the example application, the following options need to be enabled in the ALSA section:

CONFIG_SND_MIXER_OSS	- OSS Mixer API
CONFIG_SND_PCM_OSS	- OSS PCM (digital audio) API

The hotplug scripts, along with the `fxload` utility, must also be installed.

These scripts can be obtained from <http://linux-hotplug.sourceforge.net/>. Hotplugging is used for loading firmware into the Cypress EZ-USB chip using `fxload` and for loading firmware into the driver using the firmware agent.

## 2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

```
$ make
```

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to `make` to specify the appropriate kernel source directory:

```
$ make KERNELSRC=/usr/src/linux-2.6.10-custom3
```

Once the compile completes, the driver and firmware files should be installed by running:

```
$ make install
```

The kernel modules will be placed in `"/lib/modules/<KERNEL VERSION>/extra"` and the firmware files will be placed in the appropriate hotplug firmware directory, usually `/lib/firmware`. In addition, USB maps and scripts will be placed in `/etc/hotplug/usb` to enable `fxload` to initialize the EZ-USB control chip when the device is connected.

## 3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.



In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the "force\_band" parameter to the wis-sony-tuner module:

TV band	force_band
-----	-----
PAL B/G	B
PAL I	I
PAL D/K	D
SECAM L	L

If the "force\_band" parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force\_mpx\_mode" parameter must be specified to the wis-sony-tuner module.

TV band	Audio subcarrier	force_mpx_mode
-----	-----	-----
PAL B/G	Mono (default)	1
PAL B/G	A2	2
PAL B/G	NICAM	3
PAL I	Mono (default)	4
PAL I	NICAM	5
PAL D/K	Mono (default)	6
PAL D/K	A2 (1)	7
PAL D/K	A2 (2)	8
PAL D/K	A2 (3)	9
PAL D/K	NICAM	10
SECAM L	Mono (default)	11
SECAM L	NICAM	12

If the "force\_mpx\_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force\_band" or "force\_mpx\_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

#### 4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

```
$ apps/gorecord -duration 60 capture.avi
```

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.

#### 5. USING THE DRIVER

The V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:

\* Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.

- \* No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.
- \* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.
- \* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.
- \* Video parameters such as format and input port may not be changed while the encoder is active.
- \* The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.
- \* The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard features of the GO7007SB encoder, which are described below:

GO7007IOC\_S\_COMP\_PARAMS, GO7007IOC\_G\_COMP\_PARAMS

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC\_G\_COMP\_PARAMS ioctl with a pointer to a struct go7007\_comp\_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007\_comp\_params and call the GO7007\_IOC\_S\_COMP\_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007\_comp\_params:

__u32	The maximum number of frames in each
gop_size	Group Of Pictures; i.e. the maximum
	number of frames minus one between

each key frame.

`__u32`                    The maximum number of sequential  
`max_b_frames`                bidirectionally-predicted frames.  
                              (B-frames are not yet supported.)

`enum go7007_aspect_ratio`    The aspect ratio to be encoded in the  
`aspect_ratio`                meta-data of the compressed format.

Choices are:

`GO7007_ASPECT_RATIO_1_1`  
`GO7007_ASPECT_RATIO_4_3_NTSC`  
`GO7007_ASPECT_RATIO_4_3_PAL`  
`GO7007_ASPECT_RATIO_16_9_NTSC`  
`GO7007_ASPECT_RATIO_16_9_PAL`

`__u32`                    Bit-wise OR of control flags (below)  
`flags`

Flags in struct `go7007_comp_params`:

`GO7007_COMP_CLOSED_GOP`    Only produce self-contained GOPs, used  
                              to produce streams appropriate for  
                              random seeking.

`GO7007_COMP_OMIT_SEQ_HEADER` Omit the stream sequence header.

`GO7007IOC_S_MPEG_PARAMS`, `GO7007IOC_G_MPEG_PARAMS`

These ioctls are used to negotiate MPEG-specific stream parameters when the `pixelformat` has been set to `V4L2_PIX_FMT_MPEG`.

To query the current parameters, call the `GO7007IOC_G_MPEG_PARAMS` ioctl with a pointer to a struct `go7007_mpeg_params`. If the driver is not set to MPEG format, the `EINVAL` error code will be returned.

To change the current parameters, initialize all fields of a struct `go7007_mpeg_params` and call the `GO7007_IOC_S_MPEG_PARAMS` ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the `EINVAL` error code will be returned. When I/O is in progress, the `EBUSY` error code will be returned.

Fields in struct `go7007_mpeg_params`:

enum go7007\_mpeg\_video\_standard  
mpeg\_video\_standard The MPEG video standard in which to  
compress the video.

Choices are:

GO7007\_MPEG\_VIDEO\_MPEG1  
GO7007\_MPEG\_VIDEO\_MPEG2  
GO7007\_MPEG\_VIDEO\_MPEG4

\_\_u32 Bit-wise OR of control flags (below)  
flags

\_\_u32 The profile and level indication to be  
pali stored in the sequence header. This  
is only used as an indicator to the  
decoder, and does not affect the MPEG  
features used in the video stream.  
Not valid for MPEG1.

Choices for MPEG2 are:

GO7007\_MPEG2\_PROFILE\_MAIN\_MAIN

Choices for MPEG4 are:

GO7007\_MPEG4\_PROFILE\_S\_L0  
GO7007\_MPEG4\_PROFILE\_S\_L1  
GO7007\_MPEG4\_PROFILE\_S\_L2  
GO7007\_MPEG4\_PROFILE\_S\_L3  
GO7007\_MPEG4\_PROFILE\_ARTS\_L1  
GO7007\_MPEG4\_PROFILE\_ARTS\_L2  
GO7007\_MPEG4\_PROFILE\_ARTS\_L3  
GO7007\_MPEG4\_PROFILE\_ARTS\_L4  
GO7007\_MPEG4\_PROFILE\_AS\_L0  
GO7007\_MPEG4\_PROFILE\_AS\_L1  
GO7007\_MPEG4\_PROFILE\_AS\_L2  
GO7007\_MPEG4\_PROFILE\_AS\_L3  
GO7007\_MPEG4\_PROFILE\_AS\_L4  
GO7007\_MPEG4\_PROFILE\_AS\_L5

Flags in struct go7007\_mpeg\_params:

GO7007\_MPEG\_FORCE\_DVD\_MODE Force all compression parameters and  
bitrate control settings to comply  
with DVD MPEG2 stream requirements.  
This overrides most compression and  
bitrate settings!

GO7007\_MPEG\_OMIT\_GOP\_HEADER Omit the GOP header.

GO7007\_MPEG\_REPEAT\_SEQHEADER Repeat the MPEG sequence header at the start of each GOP.

GO7007IOC\_S\_BITRATE, GO7007IOC\_G\_BITRATE

These ioctls are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling GO7007IOC\_S\_BITRATE with a pointer to the int. The bitrate may be queried by calling GO7007IOC\_G\_BITRATE with a pointer to an int where the current bitrate will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2\_PIX\_FMT\_MJPEG. The VIDIOC\_S\_JPEGCOMP ioctl is not supported.

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### Installing the WIS PCI Voyager Driver

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The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

<http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner>  
<http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2>  
<http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg>  
<http://dl.bytesex.org/patches/2.6.11-2/saa7134-update>

The following patches are included with this SDK and can be applied in any order:

patches/2.6.11/saa7134-voyager.diff  
patches/2.6.11/tda8275-newaddr.diff  
patches/2.6.11/tda8290-ntsc.diff

Check to make sure the CONFIG\_VIDEO\_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

```
$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007
```

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

```
$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi
```

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).

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RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER  
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Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE\_UDEV=n". To force the use of udev, run "make install USE\_UDEV=y".
- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.
- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.
- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.
- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

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=====

1.

/\*

\* FILE: sha2.c

\* AUTHOR: Aaron D. Gifford <me@aarongifford.com>

\*

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\*  
\* \$Id: sha2.c,v 1.1 2001/11/08 00:01:51 adg Exp adg \$  
\*/  
File: LLM\_sp\_sha2.c

/\*  
\* FILE: sha2.h  
\* AUTHOR: Aaron D. Gifford <me@aarongifford.com>  
\*  
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*
* $Id: sha2.h,v 1.1 2001/11/08 00:02:01 adg Exp adg $
*/
File: LLM_sp_sha2.h
```

2.

```
/* utility to create the register check tables
* this includes inlined list.h safe for userspace.
*
* Copyright 2009 Jerome Glisse
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*
* Authors:
* Jerome Glisse
* Dave Airlie
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*/
File: comm_lib.h
```

3.

```
/* crypto/aes/aes.h -*- mode:C; c-file-style: "eay" -*- */
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```



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\* =====

\*

\*/

File Name list: aes.h, aes\_locl.h

=====

4.

/\* crypto/aes/aes\_core.c -\*- mode:C; c-file-style: "eay" -\*- \*/

/\*\*

\* rijndael-alg-fst.c

\*

\* @version 3.0 (December 2000)

\*

\* Optimised ANSI C code for the Rijndael cipher (now AES)

\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

\* @author Paulo Barreto <paulo.barreto@terra.com.br>

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\*/

File: aes\_core.c

=====

5.

/\*=====

EDIT HISTORY FOR FILE

\$Header: //depot/asic/msmshared/sec/sec/MSM\_SEC.03.03.08.xx/aes.h#1 \$

\$DateTime: 2006/12/11 00:43:21 \$ \$Author: davidf \$

when who what, where, why

-----  
11/12/04 rv changes to correct LINT errors

02/02/04 rwh Small mods to open source.

-----\*/

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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

This is an implementation of the AES encryption algorithm (Rijndael) designed by Joan Daemen and Vincent Rijmen. This version is designed to provide both fixed and dynamic block and key lengths and can also run with either big or little endian internal byte order.

NOTE: Input block and key lengths are given in terms of the lengths of the byte arrays involved, the legal values being 16, 24 and 32.

#### A. THE CIPHER INTERFACE

byte (an unsigned 8-bit type)  
word (an unsigned 32-bit type)  
aes\_ret: (a signed 16 bit type for function return values)  
    aes\_good (value != 0, a good return)  
    aes\_bad (value == 0, an error return)  
enum aes\_key: (encryption direction)  
    enc (set key for encryption)  
    dec (set key for decryption)  
    both (set key for both)  
class or struct aes (structure for context)

C subroutine calls:

aes\_ret set\_blk(const word block\_length, aes \*cx) (variable block size)  
aes\_ret set\_key(const byte key[], const word key\_length,  
                const enum aes\_key direction, aes \*cx)  
aes\_ret encrypt(const byte input\_blk[], byte output\_blk[], const aes \*cx)  
aes\_ret decrypt(const byte input\_blk[], byte output\_blk[], const aes \*cx)

IMPORTANT NOTE: If you are using this C interface and your compiler does

not set the memory used for objects to zero before use, you will need to ensure that `cx.mode` is set to zero before using the C subroutine calls.

C++ aes class subroutines:

```
aes_ret set_blk(const word block_length) (variable block size)
aes_ret set_key(const byte key[], const word key_length,
 const aes_key direction)
aes_ret encrypt(const byte input_blk[], byte output_blk[]) const
aes_ret decrypt(const byte input_blk[], byte output_blk[]) const
```

The block length inputs to `set_block` and `set_key` are in numbers of BYTES, not bits. The calls to subroutines must be made in the above order but multiple calls can be made without repeating earlier calls if their parameters have not changed. If the cipher block length is variable but `set_blk` has not been called before cipher operations a value of 16 is assumed (that is, the AES block size). In contrast to earlier versions the block and key length parameters are now checked for correctness and the encryption and decryption routines check to ensure that an appropriate key has been set before they are called.

## B. BYTE ORDER WITHIN 32 BIT WORDS

The fundamental data processing units in Rijndael are 8-bit bytes. The input, the output and the key input are all enumerated arrays of bytes in which bytes are numbered starting at zero and increasing to one less than the number of bytes in the array in question. When these inputs and outputs are considered as bit sequences, the *n*'th byte contains bits  $8n$  to  $8n+7$  of the sequence with the lower numbered bit mapped to the most significant bit within the byte (i.e. that having a numeric value of 128). However, Rijndael can be implemented more efficiently using 32-bit words to process 4 bytes at a time provided that the order of bytes within words is known. This order is called big-endian if the lowest numbered bytes in words have the highest numeric significance and little-endian if the opposite applies. This code can work in either order irrespective of the native order of the machine on which it runs. The byte order used internally is set by defining `INTERNAL_BYTE_ORDER` whereas the order for all inputs and outputs is specified by defining `EXTERNAL_BYTE_ORDER`, the only purpose of the latter being to determine if a byte order change is needed immediately after input and immediately before output to account for the use of a different internal byte order. In almost all situations both of these defines will be set to the native order of the processor on which the code is to run but other settings may sometimes be useful in special circumstances.

```
#define INTERNAL_BYTE_ORDER LITTLE_ENDIAN
#define EXTERNAL_BYTE_ORDER LITTLE_ENDIAN
```

## C. COMPILATION

To compile AES (Rijndael) for use in C code

- a. Exclude the AES\_DLL define in aes.h
- b. Exclude the AES\_IN\_CPP define in aes.h

To compile AES (Rijndael) for use in C++ code

- a. Exclude the AES\_DLL define in aes.h
- b. Include the AES\_IN\_CPP define in aes.h

To compile AES (Rijndael) in C as a Dynamic Link Library

- a. Include the AES\_DLL define in aes.h
- b. Compile the DLL. If using the test files, exclude aes.c from the test build project and compile it with the same defines as used for the DLL (ensure that the DLL path is correct)

## D. CONFIGURATION OPTIONS (see also aes.c)

1. define BLOCK\_SIZE to set the cipher block size (16, 24 or 32) or leave this undefined for dynamically variable block size (this will result in much slower code).
2. set AES\_IN\_CPP to use the code from C++ rather than C
3. set AES\_DLL if AES (Rijndael) is to be compiled to a DLL
4. set INTERNAL\_BYTE\_ORDER to one of the above constants to set the internal byte order (the order used within the algorithm code)
5. set EXTERNAL\_BYTE\_ORDER to one of the above constants to set the byte order used at the external interfaces for the input, output and key byte arrays.

IMPORTANT NOTE: BLOCK\_SIZE is in BYTES: 16, 24, 32 or undefined for aes.c and 16, 20, 24, 28, 32 or undefined for aes++.c. If left undefined a slower version providing variable block length is compiled

```
#define BLOCK_SIZE 16
```

Define AES\_IN\_CPP if you intend to use the AES C++ class rather than the C code directly.

```
#define AES_IN_CPP
```

Define AES\_DLL if you wish to compile the code to produce a Windows DLL

```
#define AES_DLL
```

```
*/
```

```
File: aes.h
```

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

## EDIT HISTORY FOR FILE

\$Header: //depot/asic/msmshared/sec/sec/MSM\_SEC.03.03.08.xx/aes\_tab.h#1 \$

\$DateTime: 2006/12/11 00:43:21 \$ \$Author: davidf \$

when who what, where, why

-----  
11/12/04 rv changes to correct LINT errors

02/02/04 rwh Small mods to open source.

====\*/

/\*lint -e146 -e303 \*/

/\* 146: Assuming a binary constant \*/

/\* 303: String too long (try +macros) \*/

/\*

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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

\*/

File: aes\_tab.h

====  
6.  
====

#FILE:Confptest.py

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# Copyright (c) 2001, 2002, 2003 Steven Knight

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```

```
#
```

```
#
```

```
The purpose of this module is to define how a check is to be performed.
Use one of the Check...() functions below.
```

```
#
```

```
#
```

```
A context class is used that defines functions for carrying out the tests,
logging and messages. The following methods and members must be present:
```

```
#
```

```
context.Display(msg) Function called to print messages that are normally
displayed for the user. Newlines are explicitly used.
The text should also be written to the logfile!
```

```
#
```

```
context.Log(msg) Function called to write to a log file.
```

```
#
```

```
context.BuildProg(text, ext)
```

```
Function called to build a program, using "ext" for the
file extension. Must return an empty string for
success, an error message for failure.
For reliable test results building should be done just
like an actual program would be build, using the same
command and arguments (including configure results so
far).
```

```
#
```

```
context.CompileProg(text, ext)
```

```
Function called to compile a program, using "ext" for
the file extension. Must return an empty string for
success, an error message for failure.
For reliable test results compiling should be done just
like an actual source file would be compiled, using the
same command and arguments (including configure results
so far).
```

```
#
```

```
context.AppendLIBS(lib_name_list)
```

```
Append "lib_name_list" to the value of LIBS.
"lib_namelist" is a list of strings.
Return the value of LIBS before changing it (any type
can be used, it is passed to SetLIBS() later.)
```

```
#
```

```
context.PrependLIBS(lib_name_list)
```

```

Prepend "lib_name_list" to the value of LIBS.
"lib_namelist" is a list of strings.
Return the value of LIBS before changing it (any type
can be used, it is passed to SetLIBS() later.)
#
context.SetLIBS(value)
Set LIBS to "value". The type of "value" is what
AppendLIBS() returned.
Return the value of LIBS before changing it (any type
can be used, it is passed to SetLIBS() later.)
#
context.headerfilename
Name of file to append configure results to, usually
"confdefs.h".
The file must not exist or be empty when starting.
Empty or None to skip this (some tests will not work!).
#
context.config_h (may be missing). If present, must be a string, which
will be filled with the contents of a config_h file.
#
context vardict Dictionary holding variables used for the tests and
stores results from the tests, used for the build
commands.
Normally contains "CC", "LIBS", "CPPFLAGS", etc.
#
context.havedict Dictionary holding results from the tests that are to
be used inside a program.
Names often start with "HAVE_". These are zero
(feature not present) or one (feature present). Other
variables may have any value, e.g., "PERLVERSION" can
#

```

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

\*/

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//

/\*

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- \* The algorithm is due to Ron Rivest. This code was
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- \* Equivalent code is available from RSA Data Security, Inc.
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- \*



```
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/
```

```


```

```
/*
```

```
* Written by Aaron D. Gifford <me@aarongifford.com>
```

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

* code or tables extracted from it, as desired without restriction.
*
* First, the polynomial itself and its table of feedback terms. The
* polynomial is
* $X^{32}+X^{26}+X^{23}+X^{22}+X^{16}+X^{12}+X^{11}+X^{10}+X^8+X^7+X^5+X^4+X^2+X^1+X^0$
*
* Note that we take it "backwards" and put the highest-order term in
* the lowest-order bit. The X^{32} term is "implied"; the LSB is the
* X^{31} term, etc. The X^0 term (usually shown as "+1") results in
* the MSB being 1
*
* Note that the usual hardware shift register implementation, which
* is what we're using (we're merely optimizing it by doing eight-bit
* chunks at a time) shifts bits into the lowest-order term. In our
* implementation, that means shifting towards the right. Why do we
* do it this way? Because the calculated CRC must be transmitted in
* order from highest-order term to lowest-order term. UARTs transmit
* characters in order from LSB to MSB. By storing the CRC this way
* we hand it to the UART in the order low-byte to high-byte; the UART
* sends each low-bit to high-bit; and the result is transmission bit
* by bit from highest- to lowest-order term without requiring any bit
* shuffling on our part. Reception works similarly
*
* The feedback terms table consists of 256, 32-bit entries. Notes
*
* The table can be generated at runtime if desired; code to do so
* is shown later. It might not be obvious, but the feedback
* terms simply represent the results of eight shift/xor opera
* tions for all combinations of data and CRC register values
*
* The values must be right-shifted by eight bits by the "updcrc
* logic; the shift must be unsigned (bring in zeroes). On some
* hardware you could probably optimize the shift in assembler by
* using byte-swap instructions
* polynomial $edb88320
*

```

```

/*
The AES algorithm Rijndael implemented for block and key sizes of 128,
192 and 256 bits (16, 24 and 32 bytes) by Brian Gladman.

```

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the product that results and I would also appreciate knowing a liitle about the use to which it is being put. I am grateful to Frank Yellin for some ideas that are used in this implementation.

Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

```

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 * hash_32 - 32 bit Fowler/Noll/Vo hash code
 *
 * Fowler/Noll/Vo hash
 *
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 *

/*
 * sha1.c
 *
 * Originally witten by Steve Reid <steve@edmweb.com>
 *
 * Modified by Aaron D. Gifford <agifford@infowest.com>
 *
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 * ftp://ftp.funet.fi/pub/crypt/hash/sha/sha1.c
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 */
```

```

/*
* AES-based functions
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*
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```

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* SHA1 hash implementation and interface functions
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*/
```

```

/*
* hmac_sha1.c
*
* Version 1.0.0
*
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*
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Firmware provided as part of an XC4000 Linux developers kit by Brian



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agere\_sta\_fw.bin -- 9.48 Hermes I

agere\_ap\_fw.bin -- 9.48 Hermes I

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*/
/*
* regex.h -- regular expression definitions for lsof
*
* This header file is used only when the dialect has no POSIX-conformant
* regular expression function set. When that is the case, the dialect's
* machine.h will define USE_LIB_REGEX.
*
* When the dialect has a POSIX-conformant regular expression function set,
* USE_LIB_REGEX is not defined and this header file #include's <regex.h>.
*
* V. Abell <abe@purdue.edu>
* Purdue University
*/

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#ifdef USE\_LIB\_REGEX

/\*

- \* This section comes from GLIBC 2.2. It is used only when the dialect  
\* has no POSIX-conformant regular expression function set. When that is  
\* the case, the dialect's machine.h will define USE\_LIB\_REGEX.  
\*/

/\* Definitions for data structures and routines for the regular  
expression library, version 0.12.

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### Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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which can be obtained from

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```
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```

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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.
```

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```
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```

<signature of Ty Coon>, 1 April 1989

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <[Cyan4973@github.com](mailto:Cyan4973@github.com)>

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table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has 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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- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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### 1. Source Code.

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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

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

# 1.369 man-db 2.6.3 :11.e17

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## 1.370 mariadb 5.5.60 :1.e17\_5

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```

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```
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```

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Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by <http://ourdelta.org/>, and are now managed by the MariaDB development team, [maria-developers@lists.launchpad.net](mailto:maria-developers@lists.launchpad.net)

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```
#-----BS_STVARS_040_01-----#
```

```
SELECT COUNT(@@GLOBAL.license);
```

```
COUNT(@@GLOBAL.license)
```

```
1
```

```
1 Expected
```

```
#-----BS_STVARS_040_02-----#
```

```
SET @@GLOBAL.license=1;
```

```
ERROR HY000: Variable 'license' is a read only variable
```

```
Expected error 'Read only variable'
```

```
SELECT COUNT(@@GLOBAL.license);
```

```
COUNT(@@GLOBAL.license)
```

```
1
```

```
1 Expected
```

```
#-----BS_STVARS_040_03-----#
```

```
SELECT @@GLOBAL.license = VARIABLE_VALUE
```

```
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
```

```
WHERE VARIABLE_NAME='license';
```

```
@@GLOBAL.license = VARIABLE_VALUE
```

```
1
```

```
1 Expected
```

```
SELECT COUNT(@@GLOBAL.license);
```

```
COUNT(@@GLOBAL.license)
```

```
1
```

```
1 Expected
```

```
SELECT COUNT(VARIABLE_VALUE)
```

```
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
```

```
WHERE VARIABLE_NAME='license';
```

```
COUNT(VARIABLE_VALUE)
```

```
1
```

```
1 Expected
```

```
#-----BS_STVARS_040_04-----#
```

```
SELECT @@license = @@GLOBAL.license;
```

```

@@license = @@GLOBAL.license
1
1 Expected
'#-----BS_STVARS_040_05-----#'
SELECT COUNT(@@license);
COUNT(@@license)
1
1 Expected
SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'ReadOnly variable'

mysql-test\t\license_basic.test
#
Variable Name: license
Scope: Global
Access Type: Static
Data Type: string
#
#
Creation Date: 2008-02-07
Author : Sharique Abdullah
#
#
Description:Test Cases of Dynamic System Variable license
that checks the behavior of this variable in the following ways
* Value Check
* Scope Check
#
Reference: http://dev.mysql.com/doc/refman/5.1/en/
server-system-variables.html
#
#####

--echo '#-----BS_STVARS_040_01-----#'
#####
Displaying default value

```

```

#####
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#-----BS_STVARS_040_02-----#'
#####
Check if Value can set
#####

--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo Expected error 'Read only variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#-----BS_STVARS_040_03-----#'
#####
Check if the value in GLOBAL Table matches value in variable
#####

SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

--echo '#-----BS_STVARS_040_04-----#'
#####
Check if accessing variable with and without GLOBAL point to same variable
#####
SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

```

```
--echo '#-----BS_STVARS_040_05-----#'
#####
Check if license can be accessed with and without @@ sign
#####
```

```
SELECT COUNT(@@license);
--echo 1 Expected
```

```
--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'
```

```
--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);
--echo Expected error 'Variable is a GLOBAL variable'
```

```
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected
```

```
--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
--echo Expected error 'Readonly variable'
```

```
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```

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=====

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```

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# 1.372 mesa 18.0.5 :4.el7\_6

## 1.372.1 Available under license :

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,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

- \* 2. Redistributions in binary form must reproduce the following statement:
- \*
- \* "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
- \* Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
- \*
- \* Only for use in the Mesa project, this point 2 is filled by naming the

\* technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

\*\*\*\*\*

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway  
Fedora Legal

==

Fedora Project

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#

# Authors:

# Ian Romanick <idr@us.ibm.com>

```
bsd_license_template = """"%s
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```

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```
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 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."""
```

```
/* Legal characters in GLSL are:
```

```
*
```

```
* Identifier characters:
```

```
*
```

```
* Letters a-z
```

```
* Letters A-Z
```

```
* Underscore
```

```
* Numbers 0-9
```

```
*
```

```
* Punctuation:
```

```
*
```

```
* Period, plus, dash, slash, asterisk, percent, angled brackets,
```

```
* square brackets, parentheses, braces, caret, vertical bar,
```

```
* ampersand, tilde, equals, exclamation point, colon, semicolon,
```

```
* comma, and question mark
```

```
*
```

```
* Special:
```

```
*
```

```
* Number sign (as used in preprocessor)
```

```
*
```

```
* Backslash just before newline as line continuation
```

```
*
```

```
* White space:
```

```
*
```

\* Space, horizontal tab, vertical tab, form feed, carriage-return,  
\* and line-feed.  
\*  
\* [GLSL Language Specfication 4.30.6, section 3.1]  
\*  
\* In this file, we test each of these in turn as follows:  
\*  
\* Identifier characters: All pass through unchanged  
\* Punctuation: All pass through unchanged  
\* Special: Empty directive replaced with blank line  
\*     Line continuation merges two lines, then a blank line  
\* Whitespace: 4 horizontal space characters each replaced with space  
\*     2 newline characters each replaced with a newline  
\*  
\*/

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ABCDEFGHIJKLMNopQRSTUVWXYZ

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ABCDEFGHIJKLMNOPQRSTUVWXYZ

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

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</p>

<p>

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</p>

<p>

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</p>

<p>

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See below for a list of Mesa's main components and the license for each.

</p>

<p>

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</p>

<p>

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</p>

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</p>

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<pre>

| Component       | Location                                       | License                     |
|-----------------|------------------------------------------------|-----------------------------|
| Main Mesa code  | src/ mesa/                                     | MIT                         |
| Device drivers  | src/ mesa/ drivers/ *                          | MIT, generally              |
| Gallium code    | src/ gallium/                                  | MIT                         |
| Ext headers     | include/ GL/ glxext.h<br>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>
```

<p>  
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</p>

</div>  
</body>  
</html>

# 1.373 microcode\_ctl 2.1 :47.5.el7\_6

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5d001d020961ae1c184f9f8152fdc73810481677

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Andrew Tunnell-Jones

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Alex Sergeev

# 1.375 mocha 5.2.0

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## 1.379 monit 5.25.3 :1.e17

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```
@c Local Variables:
```

```
@c ispell-local-pdict: "ispell-dict"
```

```
@c End:
```

```
#!/bin/sh
```

```
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```

```
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```
PARTICULAR PURPOSE.
```

```
ck-copyright-notice can be run from the tools directory
```

```
dir=`pwd`
```

```
[-d src] || ["`basename "$dir"`" != tools] || cd ..
```

```
Note: if paragraphs are reformatted, this may need to be updated.
```

```
lgpl="`sed -n '/version [0-9.]* or any later version/ {
```

```
s/.*/version //
```

```
s/ or.*/
```

```
p
```

```
q
```

```
}` doc/mpfr.texi`"
```

```
Do not use "find ... | while read file do ... done" because the "do"
```

```
part needs to be run in the current shell, and some shells behave in
```

```
a different way.
```

```
srctests=`find src tests -name '*.[ch]`
```

```
err=0
```

```
for file in $srctests
```

```
do
```

```
y=""
```

```
case $file in
```

```
tests/RRTest.c)
```

```
 # This file doesn't have a copyright notice, but isn't distributed.
```

```
 continue ;;
```

```
src/mpfr-longlong.h)
```

```
 # This file (which comes from GMP) has a specific copyright notice.
```

```
continue ;;
src/get_patches.c)
file="tools/get_patches.sh" ;;
*/mparam.h)
y="2005," ;;
esac
grep -q "Copyright $y.* Free Software Foundation" "$file" && \
grep -q "GNU MPFR Library" "$file" && \
grep -q "either version $lgpl of the License" "$file" && continue
echo "Possibly missing or incorrect copyright notice in $file"
err=1
done
```

exit \$err

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Version 3, 29 June 2007

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## 1.383 multiprocessing-logging 0.2.6

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

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

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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.

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

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

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

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

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

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

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

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

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# 1.392 newt 0.52.15 :4.e17

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

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

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

will lead to faster development of free libraries.

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

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

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# This file contains a list of people who've made non-trivial  
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## 1.404.1 Available under license :

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

```
<html>
```

```
<head>
```

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

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

```

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

<body>
<h3>Copyright Notice</h3>
 "Clone me," says Dolly sheepishly.
<p>Last update:
<!-- #BeginDate format:En2m -->1-Jan-2011 08:34<!-- #EndDate -->
UTC</csobj></p>
<br clear="left">
<hr>
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</pre>
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- <li class="inline"><a href="mailto:%20mrapple@quack.kfu.com">Nick Sayer <mrapple@quack.kfu.com></a> SunOS streams modules
- <li class="inline"><a href="mailto:%20jack@innovativeinternet.com">Jack Sasportas <jack@innovativeinternet.com></a> Saved a Lot of space on the stuff in the html/pic/ subdirectory
- <li class="inline"><a href="mailto:%20schnitz@unipress.com">Ray Schnitzler <schnitz@unipress.com></a> Unixware1 port
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- <li class="inline"><a href="mailto:%20pebbles.jpl.nasa.gov">Jeff Steinman <jss@pebbles.jpl.nasa.gov></a> Datum PTS clock driver
- <li class="inline"><a href="mailto:%20harlan@pfcs.com">Harlan Stenn <harlan@pfcs.com></a> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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<li class="inline">Paul A Vixie <vixie@vix.com> TrueTime GPS
driver, generic TrueTime clock driver
<li class="inline">Ulrich Windl <Ulrich.Windl@rz.uni-
regensburg.de> corrected and validated HTML documents according to the HTML DTD

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

</html>

/\* -\*- Mode: Text -\*- \*/

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

```
EndOfDoc;
};
```

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

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

```
version-value = "; /* Don't use -v as a shortcut for --version */
```

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```

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4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
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12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven\_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
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30. [33]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
31. [34]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
32. [35]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
33. [36]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
34. [37]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
35. [38]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
36. [39]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
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44. [48]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
45. [49]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo

46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
  47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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  49. [53]Michael Shields <shields@tembel.org> USNO clock driver
  50. [54]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
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  54. [58]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
  55. [59]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
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Files: tools/npv\_tempita/\*  
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Name: dragon4  
Files: numpy/core/src/multiarray/dragon4.c  
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## 1.407 object-assign 4.1.1

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# 1.408 olivere 5.0

## 1.409 omping 0.0.4 :6.el7

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*/
```

```
#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
```

```

#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef HAVE_POLL
#define HAVE_POLL_H
#define _COMPAT_POLL_H_

typedef struct pollfd {
 int fd;
 short events;
 short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008

```



```

#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfd_t, int);
#endif /* !_COMPAT_POLL_H */
#endif /* !HAVE_POLL_H */
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*/

#ifdef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifdef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED

```

```

#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w)) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w)) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
This file is part of the OpenSSH software.

```

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*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
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```

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```

$OpenBSD: LICENCE,v 1.19 2004/08/30 09:18:08 markus Exp $
diff -up openssh-7.4p1/sftp-server.8.sftp-force-mode openssh-7.4p1/sftp-server.8
--- openssh-7.4p1/sftp-server.8.sftp-force-mode 2016-12-19 05:59:41.000000000 +0100
+++ openssh-7.4p1/sftp-server.8 2017-02-09 10:35:41.926475399 +0100
@@ -38,6 +38,7 @@
.Op Fl P Ar blacklisted_requests
.Op Fl p Ar whitelisted_requests
.Op Fl u Ar umask
+.Op Fl m Ar force_file_perms
.Ek
.Nm
.Fl Q Ar protocol_feature
@@ -138,6 +139,10 @@ Sets an explicit
.Xr umask 2
to be applied to newly-created files and directories, instead of the
user's default mask.
+.It Fl m Ar force_file_perms
+Sets explicit file permissions to be applied to newly-created files instead
+of the default or client requested mode. Numeric values include:
+777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
.El
.Pp
On some systems,
diff -up openssh-7.4p1/sftp-server.c.sftp-force-mode openssh-7.4p1/sftp-server.c
--- openssh-7.4p1/sftp-server.c.sftp-force-mode 2017-02-09 10:22:36.498019921 +0100
+++ openssh-7.4p1/sftp-server.c 2017-02-09 10:35:07.190520959 +0100
@@ -65,6 +65,10 @@ struct sshbuf *oqueue;

```

```

/* Version of client */
static u_int version;

+/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
/* SSH2_FXP_INIT received */
static int init_done;

@@ -679,6 +683,7 @@ process_open(u_int32_t id)
Attrib a;
char *name;
int r, handle, fd, flags, mode, status = SSH2_FX_FAILURE;
+ mode_t old_umask = 0;

if ((r = sshbuf_get_cstring(iqueue, &name, NULL)) != 0 ||
 (r = sshbuf_get_u32(iqueue, &pflags)) != 0 || /* portable flags */
@@ -688,6 +693,10 @@ process_open(u_int32_t id)
debug3("request %u: open flags %d", id, pflags);
flags = flags_from_portable(pflags);
mode = (a.flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a.perm : 0666;
+ if (permforce == 1) { /* Force perm if -m is set */
+ mode = permforcemode;
+ old_umask = umask(0); /* so umask does not interfere */
+ }
logit("open \"%s\" flags %s mode 0%o",
 name, string_from_portable(pflags), mode);
if (readonly &&
@@ -709,6 +718,8 @@ process_open(u_int32_t id)
}
}
}
+ if (permforce == 1)
+ (void) umask(old_umask); /* restore umask to something sane */
if (status != SSH2_FX_OK)
send_status(id, status);
free(name);
@@ -1490,7 +1501,7 @@ sftp_server_usage(void)
fprintf(stderr,
 "usage: %s [-eHR] [-d start_directory] [-f log_facility] "
 "[-l log_level]\n\t[-P blacklisted_requests] "
- "[-p whitelisted_requests] [-u umask]\n"
+ "[-p whitelisted_requests] [-u umask] [-m force_file_perms]\n"
 " %s -Q protocol_feature\n",
 __progname, __progname);
exit(1);
@@ -1516,7 +1527,7 @@ sftp_server_main(int argc, char **argv,

```

```

pw = pwcopu(user_pw);

while (!skipargs && (ch = getopt(argc, argv,
- "d:f:l:P:p:Q:u:cehR")) != -1) {
+ "d:f:l:P:p:Q:u:m:cehR")) != -1) {
 switch (ch) {
 case 'Q':
 if (strcasecmp(optarg, "requests") != 0) {
@@ -1576,6 +1587,15 @@ sftp_server_main(int argc, char **argv,
 fatal("Invalid umask \"%s\"", optarg);
 (void)umask((mode_t)mask);
 break;
+ case 'm':
+ /* Force permissions on file received via sftp */
+ permforce = 1;
+ permforcemode = strtol(optarg, &cp, 8);
+ if (permforcemode < 0 || permforcemode > 0777 ||
+ *cp != '\0' || (permforcemode == 0 &&
+ errno != 0))
+ fatal("Invalid file mode \"%s\"", optarg);
+ break;
 case 'h':
 default:
 sftp_server_usage();

```

This package was debianized by Jamie Beverly <soupboy@sourceforge.net> on  
Wed, 13 Jan 2010 01:08:49 +0300.

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/\* OPENBSD ORIGINAL: sys/sys/poll.h \*/

#if !defined(HAVE\_POLL) && !defined(HAVE\_POLL\_H)

#ifndef \_COMPAT\_POLL\_H\_

#define \_COMPAT\_POLL\_H\_

typedef struct pollfd {

```

int fd;
short events;
short revents;
} pollfd_t;

typedef unsigned int nfd_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfd_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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*/
```

```
#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
```

```
#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
```

```
/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)
```

```
/* Prototype */
pid_t waitpid(int, int *, int);
```

```
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
```

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* Jan-Pieter Cornet (johnpc) - 2012-03-23 03:25:52 PDT
* chrysn@fsfe.org
* dfberger@users.noreply.github.com
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```
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```

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```
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```

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-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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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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```

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```
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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# 1.430 perl 5.16.3 :294.el7\_6

## 1.430.1 Available under license :

```
use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#-----#
Create test distribution
#-----#

{
my $dist = DistGen->new(
 name => 'Simple::Name',
 version => '0.01',
 license => 'perl'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok($mb, "Module::Build");
is($mb->license, 'perl',
 "license 'perl' is valid"
);

my $meta = $mb->get_metadata(fatal => 0);

is($meta->{license} => 'perl', "META license will be 'perl'");
is($meta->{resources}{license}, "http://dev.perl.org/licenses/",
 "META license URL is correct"
);

}

{
my $dist = DistGen->new(
 name => 'Simple::Name',
 version => '0.01',
 license => 'VaporWare'
```

```

);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok($mb, "Module::Build");
is($mb->license, 'VaporWare',
 "license 'VaporWare' is valid"
);

my $meta = $mb->get_metadata(fatal => 0);

is($meta->{license} => 'unrestricted', "META license will be 'unrestricted'");
is($meta->{resources}{license}, "http://example.com/vaporware/",
 "META license URL is correct"
);

}

Test with alpha number
vim:ts=2:sw=2:et:sta:sts=2
This module is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
From 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');
--

```

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```

```
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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](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
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```
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```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

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```

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

That's all there is to it!

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## 1.441 perl-PathTools 3.40 :5.el7

### 1.441.1 Available under license :

From RPM File Metadata:(GPL+ or Artistic) and BSD

## 1.442 perl-Pod-Perldoc 3.20 :4.el7

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## **1.443 perl-Pod-Simple 3.28 :4.e17**

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## **1.444 perl-Pod-Usage 1.63 :3.e17**

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## **1.445 perl-podlators 2.5.1 :3.e17**

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# 1.446 perl-Scalar-List-Utils 1.27 :248.el7

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```
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```
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program 'Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

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-----

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## 1.448 perl-Storable 2.45 :3.e17

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## 1.449 perl-Text-ParseWords 3.29 :4.e17

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From: "Alexandr Ciornii via RT" <bug-Text-ParseWords@rt.cpan.org>  
Reply-To: bug-Text-ParseWords@rt.cpan.org  
In-Reply-To: <rt-4.0.18-4704-1384789048-1647.90483-6-0@rt.cpan.org>  
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<rt-4.0.18-4704-1384789048-1647.90483-6-0@rt.cpan.org>  
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Alexandr Ciornii, <http://chorny.net>

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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.
```

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```
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

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## 1.456 pigz 2.3.3-1

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

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## :0.31.20140113.el7.centos

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

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

concluded that weaker conditions might promote sharing better.

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

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

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

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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.

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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 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.

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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.

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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That's all there is to it!

# 1.467 polkit-pkla-compat 0.1 :4.e17

## 1.467.1 Available under license :

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Version 2, June 1991

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

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

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

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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Included for the use of the fix\_strcasecmp.c module which works around a Solaris problem.

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

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

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

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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 GNU General Public License for more details.

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

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

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

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

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This 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 GNU Library General Public License instead of this License.

# 1.475 procps-ng 3.3.10 :23.el7

## 1.475.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

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

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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.

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

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

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

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

```
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,
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GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License along
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51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
```

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

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

```
Gnomovision version 69, Copyright (C) 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, June 1991

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

Preamble

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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.

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.

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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

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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"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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must

be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

If distribution of object code is made by offering access to copy



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

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

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

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

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

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

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

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

directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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- \* Fix compiler to not make output executable.

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- \* Heuristic detection of sub-messages when printing unknown fields in text format.

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- \* Solaris 10 + Sun Studio fixes.

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- \* Slicing support for repeated scalar fields for the Python API.

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- \* MS Visual Studio error format option.
- \* Detect unordered\_map in stl\_hash.m4.

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- \* gzip/zlib I/O support.

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- \* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- \* Added generation of field number constants.

Wink Saville <wink@google.com>

- \* Fixed initialization ordering problem in logging code.

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- \* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

- \* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

- \* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

- \* Detect whether zlib is new enough in configure script.

\* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

\* Optimize Java serialization code when writing a small message to a stream.

\* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.

\* Clean up some Java warnings.

\* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

\* Added CodedInputStream.getTotalBytesRead().

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\* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

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\* Fixed detection of sched\_yield on Solaris.

\* Added atomicops for Solaris

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\* Fixed minor IBM xLC compiler build issues

\* Added atomicops for AIX (POWER)

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# 1.481 psmisc 22.20 :15.e17

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Version 2.1, February 1999

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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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## 1.483 pyasn1 0.4.2

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## 1.484 pycryptodomex 3.4.7

### 1.484.1 Available under license :

Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):

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

Additionally, some files within PyCrypto had specified their own

licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)
2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)
3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).
4. Removing some modules altogether without replacing them.

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

--amk (www.amk.ca)

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

Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

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

```
=====
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=====
```

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)

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FrK8aWMVM1mFJtLpMGbUbCLjbUQC.i.JkIAKUHSFsFn7t9PbtewAewXJ2uhZGCOIGCX6oVnG3u.CgqzAffY  
4vZSnfTT8wnCkzZNZ\_g6k.XUc3ipo\_6e.92TXl4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWVJYVyp50clsUFS  
Hzf7Zbpa8P1Yoe\_xSzf3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X  
onq8h\_TmzX9g84Bin9g\_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv\_bj\_Ghxw--  
Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT  
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1  
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)  
From: M Moraes <markmoraes@yahoo.com>  
Reply-To: moraes@computer.org  
Subject: Re: PyCrypto license clarification  
To: "Dwayne C. 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  
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> 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).

>  
>

>  
>

> ([www.amk.ca](http://www.amk.ca))

>

> For the next PyCrypto release, I would like to take steps  
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> clearer licensing regime. I am asking as many  
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> Below, I have quoted a public domain dedication that was  
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> Code\_, by Van Lindberg. I have already contacted A.  
> M. Kuchling, Robey  
> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they  
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> =====  
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> dedicated to the public domain. To the  
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> the contents of this file for  
> any purpose whatsoever. No  
> rights are reserved.  
>  
> =====  
>  
> Regards,  
> - Dwayne  
>  
> -- Dwayne C. Litzenger <dlitz@dlitz.net>  
> Key-signing key - 19E1  
> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>

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

id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 3677

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

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

>

>Hi Dwayne.

>

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

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>Regards,

>Mark.

>

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>> Subject: PyCrypto license clarification

>> To: "Mark Moraes" <moraes@computer.org>

>> Date: Saturday, April 18, 2009, 9:14 AM

>> Hi Mark,

>>

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>>

>>

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>> or implied. Use at your own risk or  
>> not at all.  
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>>  
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>>  
>> --amk  
>>  
>>  
>> (www.amk.ca)  
>>  
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>> 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

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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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 text for their contributions.

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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.  
=====

Regards,  
- Dwayne

--

Dwayne C. Litzberger <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/ksRqukHwaOZyJQBUs4Yvt5mI20U6mI/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+vhGvgdpACGrS24zikHfpSSd5GFogzXaLvGVH8p  
bqSHpfWKKtEP4gAQkiNeIq1GNtR2j8U3fnRyg=  
MIME-Version: 1.0  
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;  
Sun, 08 Mar 2009 14:27:54 -0700 (PDT)  
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>  
References: <20090301042414.GA15122@rivest.dlitz.net>  
Date: Mon, 9 Mar 2009 02:57:54 +0530  
Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>  
Subject: Re: PyCrypto license clarification  
From: Jeethu Rao <jeethurao@gmail.com>  
To: "Dwayne C. 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](mailto:jeethu@jeethurao.com)

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzengerger <[dlitz@dlitz.net](mailto: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

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> Incorporating the code into commercial products is permitted; you do

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>

> --amk

([www.amk.ca](http://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  
>

--  
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](mailto:jeethu@jeethu-rao.com)  
On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenger <[dlitz@dlitz.net](mailto:dlitz@dlitz.net)> wrote:  
<blockquote class="gmail\_quote" style="margin: 0 0 .8ex; border-left: 1px solid; padding-left: 1ex;">Hi Jeethu,  
<br>  
I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.  
<br>  
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".)  
<br>  
<hr style="border-top: 1px solid black; margin: 0; width: 100%;"/>



<br>  
-- <br>  
Dwayne C. Litzberger <<a href=3D"mailto:dlitz@dlitz.net" target=3D"\_bl=  
ank">dlitz@dlitz.net</a>><br>  
=A0 =A0 =A0Key-signing key =A0 - 19E1 1FE8 B3CF F273 ED17 =A04A24 928C EC1=  
3 39C2 5CF7<br>  
</font></blockquote></div><br><br clear=3D"all"><br>-- <br>Jeethu Rao<br>  
</div></div>

--000e0cd209d0e5a3d40464a23054--  
Date: Sun, 23 Nov 2008 15:54:35 -0800  
From: Wim Lewis <wiml@hxxx.org>  
Subject: Re: PyCrypto license clarification  
To: "Dwayne C. Litzberger" <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  
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> =====  
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> to exercise all rights associated with the contents of this file for  
> any purpose whatsoever. No rights are reserved.  
> =====

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 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/>.

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or implied. Use at your own risk or not at all.
=====
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--amk (www.amk.ca)

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to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,  
- Dwayne

--

Dwayne C. 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. Litzenger wrote:

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

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

Python library.

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

> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,  
Barry

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

Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLdHI6agk  
evkJnSJQAcVHIznVIVeR5IXgvDUMakZjU4SOV7MqkhsKA9Ilet7PaD9VSYgn3ra5  
gElwI2DQDoOy5GExXMm74gqrrb1PCCbCRmpaYNo+DZohwHkeFBjwDRA3wItOrH7  
SK4w9VBJtfY=3D  
=3DQduY

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

Date: Mon, 16 Feb 2009 12:58:00 -0800  
From: Robey Pointer <robey@lag.net>  
Subject: Re: PyCrypto license clarification

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

Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)

Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

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

Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

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

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

>  
>  
> =

> =====  
> The contents of this file are dedicated to the public domain. To  
> the  
> extent that dedication to the public domain is not available,  
> 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.

>  
> =

> =====  
>

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

SH8AoLJgaq1Ii7/ZYDc+/Cd8VO0xLbr

=Mv6g



-----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".)

=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D

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

=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=



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: (vmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600  
Delivered-To: m-dlitz-dlitz@dlitz.net  
Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)  
Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])  
by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105  
for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)  
Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000  
Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])  
(envelope-sender <amk@amk.ca>)  
by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP  
for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000  
Date: Sun, 23 Nov 2008 07:51:34 -0500  
From: "A.M. Kuchling" <amk@amk.ca>  
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
Subject: Re: PyCrypto license clarification  
Message-ID: <20081123125134.GA21239@amk.local>  
Reply-To: amk@amk.ca  
References: <20081123051722.GA29253@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline  
In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>  
User-Agent: Mutt/1.5.13 (2006-08-11)  
Status: RO  
Content-Length: 537  
Lines: 15

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

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

The intention is that it be public domain.

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

You may.

--amk  
From dlitz@dlitz.net 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. Litzemberger <dlitz@dlitz.net>

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

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <paulswartz@gmail.com>

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

Delivered-To: dwon@rivest.dlitz.net

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

by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)

Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600

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

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

from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159

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

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

for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)  
Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3  
for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)  
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;  
d=gmail.com; s=gamma;  
h=domainkey-signature:mime-version:received:in-reply-to:references  
:from:date:message-id:subject:to:content-type  
:content-transfer-encoding;  
bh=A0RHBf0TnribKS5qOHJ3WYbkZ+b0cuPeuoKAvpApWcc=;  
b=gyTqkRhKIHadFKIZCBWsRbnMNVDq1PWlJbyC0EvxPskaoHr3HAR96MWQNBePu/40Ac  
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  
1ornJLM1eQ2XyuZA73jem+SJtfdHUcSD1UhgI=

MIME-Version: 1.0

Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,  
03 Aug 2009 09:14:03 -0700 (PDT)

In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>

References: <20090803014825.GA1326@rivest.dlitz.net>

From: Paul Swartz <paulswartz@gmail.com>

Date: Mon, 3 Aug 2009 12:13:43 -0400

Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>

Subject: Re: PyCrypto license clarification

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

Content-Type: text/plain; charset=UTF-8

Content-Transfer-Encoding: quoted-printable

Status: RO

X-Status: A

Content-Length: 1450

On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenger<dlitz@dlitz.net> wrote:

> Hi Paul,

>

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

That's great!

> I understand that you have made contributions to PyCrypto, under nickname  
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=  
blic

> domain all your contributions to PyCrypto, with the following notice?



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

Status: RO

Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

>On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenger<dlitz@dlitz.net> wrote:

>> Hi Paul,

>>

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

>> working on a new release at <http://www.pycrypto.org/>.

>

>That's great!

>

>> I understand that you have made contributions to PyCrypto, under nickname

>> "z3p" and/or other names. May I, on your behalf, dedicate to the public

>> domain all your contributions to PyCrypto, with the following notice?

>>

>> =====

>> 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.

>> =====

>

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

Perfect! Thanks for the quick response!

--

Dwayne C. Litzenger <dlitz@dlitz.net>

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

From dlitz@dlitz.net Mon May 4 22:49:14 2009

Date: Mon, 4 May 2009 22:49:14 -0400

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

To: Joris Bontje <joris@bontje.nl>

Subject: PyCrypto license clarification

Message-ID: <20090505024914.GA9219@rivest.dlitz.net>

MIME-Version: 1.0

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

Content-Disposition: inline

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

Status: RO

Content-Length: 2553

Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am



working on a new release at <http://www.pycrypto.org/>.

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

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

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=====  
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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 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. Litzenberger" <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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to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,  
Joris

Citeren "Dwayne C. Litzberger" <dlitz@dlitz.net>:

```
> Hi Joris,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
>
> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them.
> The text in the current LICENSE file (quoted below) is not entirely clear
> on the point of whether distributing modified versions is allowed. (It
> says "distribute and use", but not "modify".)
```

```
>
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> dissemination and usage except those imposed by the laws of your
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> warranty of fitness for use or suitability for any purpose, express
> or implied. Use at your own risk or not at all.
```

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

```
> --amk (www.amk.ca)
```

```
>
```

> For the next PyCrypto release, I would like to take steps to move toward a  
> clearer licensing regime. I am asking as many copyright holders as I can  
> 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  
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>  
> I understand that you have made contributions to PyCrypto. May I, on your  
> behalf, dedicate to the public domain all your contributions to PyCrypto,  
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>  
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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. Litzengerger <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. Litzengerger" <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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> Joris

>

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

>

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>> on the point of whether distributing modified versions is allowed. (It  
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>>

>> =====

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>> country of residence. This software is provided "as is" without  
>> warranty of fitness for use or suitability for any purpose, express

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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  
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>>  
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>>  
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>> any purpose whatsoever. No rights are reserved.  
>> =====  
>>  
>> Regards,  
>> - Dwayne  
>>  
>> --  
>> Dwayne C. Litzengerger <dlitz@dlitz.net>  
>> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>  
>  
  
--  
Dwayne C. Litzengerger <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  
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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00INDEX This file

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LICENSE.libtom LICENSE file from LibTomCrypt

stmts/ Statements by contributors

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  
#  
# For information about the Stamper service see  
# <http://www.itconsult.co.uk/stamper.htm>  
#  
#####

SUBMISSION TYPE: TSU  
SUBMITTED BY: Dwayne C. Litzenberger  
SUBMITTED FOR: Dwayne C. Litzenberger  
POINT OF CONTACT: Dwayne C. Litzenberger  
PHONE and/or FAX: +1-613-693-1296  
MANUFACTURER: n/a  
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")  
ECCN: 5D002

NOTIFICATION: <http://www.pycrypto.org/>

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- - -

Dwayne C. Litzenberger <[dlitz@dlitz.net](mailto: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-----

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# 1.489 pyliblzma 0.5.3 :11.el7

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## 1.492 pysnmp 4.4.4

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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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| 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                 |
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| 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 |
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| Release        | Derived from | Year      | Owner      | GPL compatible? |
|----------------|--------------|-----------|------------|-----------------|
| 0.9.0 thru 1.2 | n/a          | 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     | 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 |  |
| +-----+-----+-----+-----+-----+ |       |      |     |     |  |
| 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 | 2010 | PSF | yes |  |
| +-----+-----+-----+-----+-----+ |       |      |     |     |  |
| 2.7                             | 2.6   | 2010 | PSF | yes |  |
| +-----+-----+-----+-----+-----+ |       |      |     |     |  |

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#### Mersenne Twister

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The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

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

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

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

-----

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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Floating point exception control  
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MD5 message digest algorithm

-----

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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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

2002-04-13 lpd Removed support for non-ANSI compilers; removed

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

Asynchronous socket services  
-----

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Cookie management  
-----

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Execution tracing

-----

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## UUencode and UUdecode functions

-----

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between `ascii` and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

## XML Remote Procedure Calls

-----

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test\_epoll

-----

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Select kqueue

-----

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-----

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

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

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| 1.3 thru 1.5.2 | 1.2       | 1995-1999 | CNRI       | yes     |
| 1.6            | 1.5.2     | 2000      | CNRI       | no      |
| 2.0            | 1.6       | 2000      | BeOpen.com | no      |
| 1.6.1          | 1.6       | 2001      | CNRI       | yes (2) |
| 2.1            | 2.0+1.6.1 | 2001      | PSF        | no      |
| 2.0.1          | 2.0+1.6.1 | 2001      | PSF        | yes     |
| 2.1.1          | 2.1+2.0.1 | 2001      | PSF        | yes     |
| 2.1.2          | 2.1.1     | 2002      | PSF        | yes     |
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| 2.0            | 1.6          | 2000      | BeOpen.com | no              |
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|---------------|-----------|----------|-----|-----|--|
| 2.1           | 2.0+1.6.1 | 2001     | PSF | no  |  |
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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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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being

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

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

Asynchronous socket services

-----

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Execution tracing

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

-----  
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test\_epoll

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## strtod and dtoa

-----

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# 1.499 python-click 7.0

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## 1.500 python-configobj 4.7.2 :7.e17

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# 1.501 python-dateutil 1.5 :7.e17

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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 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       | 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                 |
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.. _history-and-license:
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History and License

```

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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.

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| Release        | Derived from | Year      | Owner | GPL compatible? |
|----------------|--------------|-----------|-------|-----------------|
| 0.9.0 thru 1.2 | n/a          | 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     | 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 |  |

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|-------|-------|------|-----|-----|--|
| 2.5   | 2.4   | 2006 | PSF | yes |  |
| 2.5.1 | 2.5   | 2007 | PSF | yes |  |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |  |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |  |
| 2.6   | 2.5   | 2008 | PSF | yes |  |
| 2.6.1 | 2.6   | 2008 | PSF | yes |  |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |  |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |  |
| 2.6.4 | 2.6.3 | 2010 | PSF | yes |  |
| 2.7   | 2.6   | 2010 | PSF | yes |  |

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Mersenne Twister

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The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

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

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

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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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Floating point exception control  
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MD5 message digest algorithm

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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being

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

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

Asynchronous socket services

-----

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Execution tracing

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

-----  
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test\_epoll

-----

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-----

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-----

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expat

-----

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libffi

-----

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zlib

----

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\*\*\*\*\*

#### History and License

\*\*\*\*\*

#### 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.

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| 2.4.1 | 2.4   | 2005 | PSF | yes |  |
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| 2.6.1 | 2.6   | 2008 | PSF | yes |  |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |  |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |  |
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Mersenne Twister

-----

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

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

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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Sockets

-----

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and  
`:func:`getnameinfo``, which are coded in separate source files from the WIDE  
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MD5 message digest algorithm

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L. Peter Deutsch  
ghost@aladdin.com



Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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

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

Asynchronous socket services

-----

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UUencode and UUdecode functions

-----

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

-----

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test\_epoll

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Select kqueue

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strtod and dtoa

-----

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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



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| 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                 |
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| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
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| 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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|----------------|--------------|-----------|------------|---------------------|
| 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                 |
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| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
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| 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                 |
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| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |

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|-------|-------|------|-----|-----|
| 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 |
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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.

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? |
|----------------|--------------|-----------|------------|-----------------|
| 0.9.0 thru 1.2 | n/a          | 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 | 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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| +-----+-----+-----+-----+-----+ |       |           |     |     |  |
| 2.6.1                           | 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 | 2010 | PSF | yes |  |
| 2.7   | 2.6   | 2010 | PSF | yes |  |

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#### Mersenne Twister

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The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

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

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

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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## Sockets

-----

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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Floating point exception control

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MD5 message digest algorithm

-----  
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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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

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



Asynchronous socket services  
-----

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Cookie management  
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Execution tracing

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UUencode and UUdecode functions

-----

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- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

## XML Remote Procedure Calls

-----

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Select kqueue

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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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-----

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\*\*\*\*\*

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=====

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

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

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

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-----

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

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

Before using, initialize the state by using `init_genrand(seed)`  
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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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## Sockets

-----

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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-----

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MD5 message digest algorithm

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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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

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

Asynchronous socket services

-----

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Execution tracing

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UUencode and UUdecode functions  
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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

#### XML Remote Procedure Calls

-----

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test\_epoll

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Select kqueue

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strtod and dtoa

-----

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

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

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| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |

|       |           |           |      |         |
|-------|-----------|-----------|------|---------|
| 1.6.1 | 1.6       | 2001      | CNRI | yes (2) |
| 2.1   | 2.0+1.6.1 | 2001      | PSF  | no      |
| 2.0.1 | 2.0+1.6.1 | 2001      | PSF  | yes     |
| 2.1.1 | 2.1+2.0.1 | 2001      | PSF  | yes     |
| 2.2   | 2.1.1     | 2001      | PSF  | yes     |
| 2.1.2 | 2.1.1     | 2002      | PSF  | yes     |
| 2.1.3 | 2.1.2     | 2002      | PSF  | yes     |
| 2.2.1 | 2.2       | 2002      | PSF  | yes     |
| 2.2.2 | 2.2.1     | 2002      | PSF  | yes     |
| 2.2.3 | 2.2.2     | 2003      | PSF  | yes     |
| 2.3   | 2.2.2     | 2002-2003 | PSF  | yes     |
| 2.3.1 | 2.3       | 2002-2003 | PSF  | yes     |
| 2.3.2 | 2.3.1     | 2002-2003 | PSF  | yes     |
| 2.3.3 | 2.3.2     | 2002-2003 | PSF  | yes     |
| 2.3.4 | 2.3.3     | 2004      | PSF  | yes     |
| 2.3.5 | 2.3.4     | 2005      | PSF  | yes     |
| 2.4   | 2.3       | 2004      | PSF  | yes     |
| 2.4.1 | 2.4       | 2005      | PSF  | yes     |
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| 2.4.4 | 2.4.3     | 2006      | PSF  | yes     |
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| 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     |
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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.

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|----------------|--------------|-----------|------------|-----------------|
| 0.9.0 thru 1.2 | n/a          | 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        | 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 |  |
| 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 | 2010 | PSF | yes |  |
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Mersenne Twister

-----

The `:mod:`_random`` module includes code based on a download from



<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

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

Before using, initialize the state by using `init_genrand(seed)`  
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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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Sockets

-----

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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-----  
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-----  
MD5 message digest algorithm  
-----

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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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

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

Asynchronous socket services

-----

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Cookie management  
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Execution tracing  
-----

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UUencode and UUdecode functions

-----

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

## XML Remote Procedure Calls

-----

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`test_epoll`

-----

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Select kqueue

-----

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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



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## OpenSSL

-----

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=====

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DMIDecode

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## 1.506 python-elasticsearch 6.3.1

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B

```
\@s,ddlmZmZmZmZGdddeZdS))NamespacedClientquery_params
_make_pathSKIP_IN_PATHc@s@eZdZed
ddZeddddZedddd ZdS)
```

```
LicenseClientNcCs|jjdd|dS)z^
```

```
`<https://www.elastic.co/guide/en/x-pack/current/license-management.html>`_
DELETEz/_xpack/license)params) transportperform_request)selfrrM/tmp/pip-install-
tawjeth/elasticsearch/elasticsearch/client/xpack/license.pydeletes
zLicenseClient.deletelocalcCs|jjdd|dS)z
```

```
`<https://www.elastic.co/guide/en/x-pack/current/license-management.html>`_`
```

```
:arg local: Return local information, do not retrieve the state from
master node (default: false)
```

```
GETz/_xpack/license)r)r r
```

```
)rrrrr
```

```
get
```

```
s
```



zLicenseClient.getZacknowledgedCs[jjdd|dS)z

`<<https://www.elastic.co/guide/en/x-pack/current/license-management.html>>`\_`

:arg body: licenses to be installed

:arg acknowledge: whether the user has acknowledged acknowledge messages  
(default: false)

PUTz/\_xpack/license)rbody)r r

)rrrrrr

posts

zLicenseClient.post)N)N)NN)\_\_name\_\_

\_\_module\_\_qualname\_\_rrrrrrrr

rsrN)Zelasticsearch.client.utilsrrrrrrrrr

<module>s

from elasticsearch.client.utils import NamespacedClient, query\_params, \_make\_path, SKIP\_IN\_PATH

class LicenseClient(NamespacedClient):

    @query\_params()

    def delete(self, params=None):

        """

`<<https://www.elastic.co/guide/en/x-pack/current/license-management.html>>`\_`

        """

        return self.transport.perform\_request('DELETE', '/\_xpack/license',  
            params=params)

    @query\_params('local')

    def get(self, params=None):

        """

`<<https://www.elastic.co/guide/en/x-pack/current/license-management.html>>`\_`

:arg local: Return local information, do not retrieve the state from  
    master node (default: false)

        """

        return self.transport.perform\_request('GET', '/\_xpack/license',  
            params=params)

    @query\_params('acknowledge')

    def post(self, body=None, params=None):

        """

`<<https://www.elastic.co/guide/en/x-pack/current/license-management.html>>`\_`

:arg body: licenses to be installed

:arg acknowledge: whether the user has acknowledged acknowledge messages  
(default: false)

```
""
return self.transport.perform_request('PUT', '/_xpack/license',
 params=params, body=body)
```

## 1.507 python-enum34 1.1.6

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## 1.508 python-ethtool 0.8 :7.e17

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

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.509 python-idna 2.6

## 1.510 python-iniparse 0.4 :9.e17

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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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| 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       | 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     |
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## 1.514 python-libs 2.7.5 :77.e17

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

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

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|----------------|--------------|-----------|------------|---------------------|
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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       | 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                 |
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| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |
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| 2.6.3          | 2.6.2        | 2009      | PSF        | yes                 |
| 2.6.4          | 2.6.3        | 2009      | PSF        | yes                 |
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| 2.7            | 2.6          | 2010      | PSF        | yes                 |

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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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| 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     |
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| 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     |
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| 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     |
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| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes             |
| 1.6            | 1.5.2        | 2000      | CNRI       | no              |
| 2.0            | 1.6          | 2000      | BeOpen.com | no              |
| 1.6.1          | 1.6          | 2001      | CNRI       | 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 |  |
| 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 | 2010 | PSF | yes |  |
| 2.7   | 2.6   | 2010 | PSF | yes |  |

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Mersenne Twister

-----

The `:mod:`_random`` module includes code based on a download from



<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

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

Before using, initialize the state by using `init_genrand(seed)`  
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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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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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

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

Asynchronous socket services

-----

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Cookie management  
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Execution tracing  
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UUencode and UUdecode functions  
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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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-----

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`test_epoll`

-----

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Select kqueue

-----

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strtod and dtoa

-----

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-----

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

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

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| 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                  |
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| 2.1.1 | 2.1+2.0.1 | 2001      | PSF | yes |
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| 2.3.3 | 2.3.2     | 2002-2003 | PSF | yes |
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| 2.6.3 | 2.6.2     | 2009      | PSF | yes |
| 2.6.4 | 2.6.3     | 2009      | PSF | yes |
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| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no              |
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| 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             |
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| 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 | 2010 | PSF | yes |  |
| +-----+-----+-----+-----+-----+ |       |      |     |     |  |
| 2.7                             | 2.6   | 2010 | PSF | yes |  |
| +-----+-----+-----+-----+-----+ |       |      |     |     |  |

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Mersenne Twister

-----

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

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

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

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

-----

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

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-----  
MD5 message digest algorithm  
-----

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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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

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

Asynchronous socket services

-----

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Cookie management

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Execution tracing

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between `ascii` and `binary`. This results in a 1000-fold speedup. The `C` version is still 5 times faster, though.
- Arguments more compliant with Python standard

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-----  
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test\_epoll

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Select kqueue

-----

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strtod and dtoa

-----

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-----

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# 1.515 python-linux-procfs 0.4.9 :4.e17

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## 1.517 python-protobuf 3.7.1

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\* VI syntax highlighting tweaks.

\* Fix compiler to not make output executable.

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\* Heuristic detection of sub-messages when printing unknown fields in text format.

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\* Added @Override annotation to generated Java code where appropriate.

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\* Solaris 10 + Sun Studio fixes.

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\* Slicing support for repeated scalar fields for the Python API.

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\* MS Visual Studio error format option.

\* Detect unordered\_map in stl\_hash.m4.

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\* gzip/zlib I/O support.

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\* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).

\* Added generation of field number constants.

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\* Fixed initialization ordering problem in logging code.

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\* Small patch improving performance of in Python serialization.

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\* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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\* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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\* HPUX support.

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\* Detect whether zlib is new enough in configure script.

\* Fixes for Solaris 10 32/64-bit confusion.

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\* Optimize Java serialization code when writing a small message to a stream.

\* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.

\* Clean up some Java warnings.

\* Fix bug with permanent callbacks that delete themselves when run.

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\* Added CodedInputStream.getTotalBytesRead().

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\* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

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\* Fixed detection of sched\_yield on Solaris.

\* Added atomicops for Solaris

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\* Fixed minor IBM xLC compiler build issues

\* Added atomicops for AIX (POWER)

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## 1.518 python-pycurl 7.19.0 :19.e17

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

### 1.520.1 Available under license :

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Urllib3 License

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## 1.521 python-rhsm 1.19.10 :1.e17\_4

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

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# 1.526 python-status 1.0.1

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For `status.py` file:

originally from: <https://github.com/tomchristie/django-rest-framework/blob/master/LICENSE.md>

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# 1.527 python-suds 0.4.1 :5.e17

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## 1.528 python-tabulate 0.8.3

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## 1.529 python-tornado 4.2.1 :4.e17

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# 1.530 python-urlgrabber 3.10 :9.e17

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# Contributions to the urllib3 project

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- \* HTTPS patch (which inspired HTTPSConnectionPool)
  
- \* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
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- \* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)
  
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- \* SSL fingerprint and alternative hostname verification

- \* Bugfixes in testsuite
  
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- \* Various bugfixes and test improvements.
  
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- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
  
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- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield <<http://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
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- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
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- \* HTTPResponse.tell() for determining amount received over the wire
  
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- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <<http://dbrgn.ch/>>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module

- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
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  - \* Use the platform-specific CA certificate locations
  
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  - \* HTTPHeaderDict and associated tests and docs
  - \* Bugfixes, docs, test coverage
  
  - \* Tahia Khan <http://tahia.tk/>
  - \* Added Timeout examples in docs
  
  - \* Arthur Grunseid <http://grunseid.com>
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  - \* Add ability to pass socket options to an HTTP Connection
  
  - \* Erik Tollerud <erik.tollerud@gmail.com>
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  - \* Benjamin Meyer <bm\_witness@yahoo.com>
  - \* Security Warning Documentation update for proper capture
  
  - \* Shivan Sornarajah <github@sornars.com>
  - \* Support for using ConnectionPool and PoolManager as context managers.
  
  - \* Alex Gaynor <alex.gaynor@gmail.com>
  - \* Updates to the default SSL configuration
  
  - \* [Your name or handle] <[email or website]>
  - \* [Brief summary of your changes]
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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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| Release | Derived | Year | Owner | GPL-            |
|---------|---------|------|-------|-----------------|
|         | from    |      |       | compatible? (1) |

|                |           |           |            |         |
|----------------|-----------|-----------|------------|---------|
| 0.9.0 thru 1.2 |           | 1991-1995 | CWI        | yes     |
| 1.3 thru 1.5.2 | 1.2       | 1995-1999 | CNRI       | yes     |
| 1.6            | 1.5.2     | 2000      | CNRI       | no      |
| 2.0            | 1.6       | 2000      | BeOpen.com | no      |
| 1.6.1          | 1.6       | 2001      | CNRI       | 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     |
| 2.1.2          | 2.1.1     | 2002      | PSF        | yes     |
| 2.1.3          | 2.1.2     | 2002      | PSF        | yes     |
| 2.2 and above  | 2.1.1     | 2001-now  | PSF        | yes     |

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## History and License

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### 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 <https://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 <https://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 <https://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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| 2.1.3         | 2.1.2     | 2002     | PSF  | yes |  |
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#### Mersenne Twister

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The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

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

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

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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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Asynchronous socket services

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Execution tracing

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UUencode and UUdecode functions  
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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls  
-----

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test\_epoll

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Select kqueue

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SipHash24

-----

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

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djb ([supercop/crypto\\_auth/siphash24/little2](https://github.com/supercop/crypto_auth/siphash24/little2))

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

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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OpenSSL

-----

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expat

-----

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zlib

----



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cfuhash  
-----

The implementation of the hash table used by the `:mod:`tracemalloc`` is based on the cfuhash project::

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libmpdec

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

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If 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,

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

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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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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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## 1.536 rabbitmq-server 3.6.9 :1.el7.centos

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=====

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dateutil - Extensions to the standard Python datetime module.

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## History

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## A. HISTORY OF THE SOFTWARE

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contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

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 that included the contextlib module.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---------|--------------|------|-------|---------------------|
| 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                 |
| 3.3     | 3.2          | 2012 | PSF   | yes                 |

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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

For information about the Stamper service see
http://www.itconsult.co.uk/stamper.htm

#####
```

SUBMISSION TYPE: TSU  
SUBMITTED BY: Dwayne C. Litzenberger  
SUBMITTED FOR: Dwayne C. Litzenberger  
POINT OF CONTACT: Dwayne C. Litzenberger  
PHONE and/or FAX: +1-613-693-1296  
MANUFACTURER: n/a  
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")  
ECCN: 5D002

NOTIFICATION: <http://www.pycrypto.org/>

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- - -

Dwayne C. 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-----

#### 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   | Year      | Owner      | GPL-compatible? (1) |
|----------------|-----------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |           | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2       | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2     | 2000      | CNRI       | no                  |
| 2.0            | 1.6       | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6       | 2001      | CNRI       | no                  |
| 2.1            | 2.0+1.6.1 | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1 | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1 | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1     | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1     | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2     | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2       | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1     | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2     | 2003      | PSF        | yes                 |

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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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);



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=  
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=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=

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)

iEYEAARECAAYFAkko52IACgkQHBBG4d+eAS0XPPQCfcyQ2DdAXK9N7Z+jeSFFD5EZ

yl0An33a3ZjkteyJaTbzEqImOEw8JGpf

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

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

The intention is that it be public domain.

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

You may.

--amk  
From dlitz@dlitz.net Sat 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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=====
```

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

--amk (www.amk.ca)

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

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

```
=====
```

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=====  
Regards,  
- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

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

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

X-Maildir-Dup-Checked: Yes

Return-Path: <markmoraes@yahoo.com>

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

Delivered-To: dwon@rivest.dlitz.net

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

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

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

Received: from localhost (localhost [127.0.0.1])

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

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

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

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/TkSGBij5YZIhkLQdkQk0qLz5f4g8dT6bOME3s  
EY1j10hlx0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EJhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTqgB  
2aU=

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

s=s1024; d=yahoo.com;

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

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

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

X-YMail-OSG:

FrK8aWMVM1mFJtLpMGbUbCLjbUQC.i.JkIAKUHSFsFn7t9PbtewAewXJ2uhZGCOIGCX6oVnG3u.CgqzAffY



4vZSnfTT8wnCkzZnZ\_g6k.XUc3ipo\_6e.92TXl4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWVJYVyp50clsUFS  
Hzf7Zbpa8P1Yoe\_xSzf3OAgRSh5fCrBfCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X  
onq8h\_TmzX9g84Bin9g\_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv\_bj\_Ghxw--  
Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT  
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1  
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)  
From: M Moraes <markmoraes@yahoo.com>  
Reply-To: moraes@computer.org  
Subject: Re: PyCrypto license clarification  
To: "Dwayne C. 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".)  
>  
>

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

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009  
Date: Mon, 20 Apr 2009 20:01:37 -0400  
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
To: moraes@computer.org  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>  
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
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.

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>Regards,

>Mark.

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>> Subject: PyCrypto license clarification

>> To: "Mark Moraes" <moraes@computer.org>

>> Date: Saturday, April 18, 2009, 9:14 AM

>> Hi Mark,

>>

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>> and I am

>> working on a new release at <http://www.pycrypto.org/>.

>>

>> People often ask me what license PyCrypto is covered by, if

>> it's

>> GPL-compatible, etc. Right now, I'm not really sure

>> what to tell them.

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

>> entirely clear

>> on the point of whether distributing modified versions is

>> allowed. (It

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

>>

>>

>> =====

>> Distribute and use freely; there are

>> no restrictions on further

>> dissemination and usage except those

>> imposed by the laws of your

>> country of residence. This

>> software is provided "as is" without

>> warranty of fitness for use or

>> suitability for any purpose, express

>> or implied. Use at your own risk or

>> not at all.

>>

>> =====

>>

>> Incorporating the code into commercial  
>> products is permitted; you do  
>> not have to make source available or  
>> contribute your changes back  
>> (though that would be nice).  
>>  
>> --amk  
>>  
>>  
>> (www.amk.ca)  
>>  
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>> Below, I have quoted a public domain dedication that was  
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>> 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  
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>> approved the following dedication for their contributions.  
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>> behalf, dedicate to the public domain all your  
>> contributions to PyCrypto,  
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>>  
>>  
>> =====  
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>> 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: 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  
> dedication that was recommended in Intellectual Property and Open  
> Source: A Practical Guide to Protecting Code, by Van Lindberg. I  
> have already contacted A. M. Kuchling, and he has approved the  
> following dedication for his contributions.

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

>  
>  
> =

> =====

> The contents of this file are dedicated to the public domain. To  
> the  
> extent that dedication to the public domain is not available,  
> 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.

>

> =

> =====

>

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-----

Date: Sun, 23 Nov 2008 15:54:35 -0800

From: Wim Lewis <wiml@hnhh.org>

Subject: Re: PyCrypto license clarification

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

Cc: Wim Lewis <wiml@hnhh.org>

Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hnhh.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 source 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-----

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Version 2.0, January 2004  
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9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

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

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### Dependent Modules

=====

This code has the following dependencies  
above and beyond the Python standard library:

httplib2 - MIT License  
From dlitz@dlitz.net Mon May 4 22:49:14 2009  
Date: Mon, 4 May 2009 22:49:14 -0400  
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
To: Joris Bontje <joris@bontje.nl>  
Subject: PyCrypto license clarification  
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2553

Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am

working on a new release at <http://www.pycrypto.org/>.

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

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

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

--amk (www.amk.ca)

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=====

Regards,  
- Dwayne

--

Dwayne C. Litzemberger <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. Litzenberger" <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:

```
=====
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,  
Joris

Citeren "Dwayne C. Litzberger" <dlitz@dlitz.net>:

```
> 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)
```

```
>
```

> 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.  
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> Intellectual Property and Open Source: A Practical Guide to Protecting  
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> have all approved the following dedication for their contributions.  
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> =====  
>  
> Regards,  
> - Dwayne  
>  
> --  
> Dwayne C. Litzengerger <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. Litzengerger" <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,

>

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> effort to keep this going.

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> =====

>

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>>

>> =====

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>> warranty of fitness for use or suitability for any purpose, express

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>> =====  
>>  
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>> (though that would be nice).  
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>> any purpose whatsoever. No rights are reserved.  
>> =====  
>>  
>> Regards,  
>> - Dwayne  
>>  
>> --  
>> Dwayne C. Litzengerger <dlitz@dlitz.net>  
>> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>  
>  
  
--  
Dwayne C. Litzengerger <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  
From dlitz@dlitz.net Sun Aug 2 21:48:25 2009  
Date: Sun, 2 Aug 2009 21:48:25 -0400  
From: "Dwayne C. Litzengerger" <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=noaws;

d=gmail.com; s=gamma;

h=mime-version:in-reply-to:references:from:date:message-id:subject:to

:content-type:content-transfer-encoding;

b=jze7KSMkUGilfVCXKXaaXMi5NAtGdMQOtVZZfRNyGSy68xOd2sxefjyyig3EfT6Nv6  
Q3opUMsT96Q6zjZND55w446kTh2uBTnz4d3NwIeEWJnG3xcliRQu/mXPfP8AzPI3CefL  
1ornJLM1eQ2XyuZA73jem+SJtfdHUcSD1UhgI=

MIME-Version: 1.0

Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,  
03 Aug 2009 09:14:03 -0700 (PDT)

In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>

References: <20090803014825.GA1326@rivest.dlitz.net>

From: Paul Swartz <paulswartz@gmail.com>

Date: Mon, 3 Aug 2009 12:13:43 -0400

Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzberger" <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. Litzberger<dlitz@dlitz.net> wro=  
te:

> Hi Paul,

>

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

> working on a new release at <http://www.pycrypto.org/>.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname

> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=  
blic

> domain all your contributions to PyCrypto, with the following notice?

>

> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
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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

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> =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,

>>

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

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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. Litzenger <dlitz@dlitz.net>  
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009  
Date: Sat, 28 Feb 2009 21:45:09 -0500  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: Barry A Warsaw <barry@python.org>  
Subject: PyCrypto license clarification  
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2535

Hi Barry,

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

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

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=====
```

Regards,  
- Dwayne

--

Dwayne C. Litzemberger <dlitz@dlitz.net>

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

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

X-Maildir-Dup-Checked: Yes

Return-Path: <barry@python.org>

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

Delivered-To: dwon@rivest.dlitz.net

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

by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B

for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A

for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)

Received: (vmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600

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

Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;



envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230  
Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])  
by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073  
for <dlitz@dlitz.net>; Mon, 2 Mar 2009 10:29:38 -0600 (CST)  
Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])  
by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F  
for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)  
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>  
From: Barry Warsaw <barry@python.org>  
To: Dwayne C. Litzenberger <dlitz@dlitz.net>  
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>  
Content-Type: text/plain; charset=US-ASCII; format=flowed; delpsp=yes  
Content-Transfer-Encoding: quoted-printable  
Mime-Version: 1.0 (Apple Message framework v930.3)  
Subject: Re: PyCrypto license clarification  
Date: Mon, 2 Mar 2009 11:29:34 -0500  
References: <20090301024509.GA13195@rivest.dlitz.net>  
X-Pgp-Agent: GPGMail d55 (v55, Leopard)  
X-Mailer: Apple Mail (2.930.3)  
Status: RO  
Content-Length: 869

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

Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. 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  
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SK4w9VBjtfY=3D  
=3DQduY

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

From dlitz@dlitz.net Sat Feb 28 23:24:14 2009  
Date: Sat, 28 Feb 2009 23:24:14 -0500  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: Jeethu Rao <jeethurao@gmail.com>  
Subject: PyCrypto license clarification  
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2513

Hi Jeethu,

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

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

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=====

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

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in

\_Intellectual Property and Open Source: A Practical Guide to Protecting Code\_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

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

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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. Litzemberger <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

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d=gmail.com; s=gamma;  
h=mime-version:in-reply-to:references:date:message-id:subject:from:to  
:content-type;  
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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

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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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> 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 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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> The contents of this file are dedicated to the public domain. To the  
> extent that dedication to the public domain is not available, everyone  
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> to exercise all rights associated with the contents of this file for  
> any purpose whatsoever. No rights are reserved.  
> =====  
>  
> Regards,  
> - Dwayne  
>  
> --  
> Dwayne C. 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@jeethurao.com. On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzengerger 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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Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

<br>  
--amk =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =  
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 (<a href=3D"http://www.amk.ca" target=3D=  
"\_blank">www.amk.ca</a><br>

<br>  
For the next PyCrypto release, I would like to take steps to move toward a =  
clearer licensing regime. =A0I am asking as many copyright holders as I can=  
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=A0Below, I have quoted a public domain dedication that was recommended in =  
\_Intellectual Property and Open Source: A Practical Guide to Protecting Cod=  
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<br>  
=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. =A0To the<br>  
extent that dedication to the public domain is not available, everyone<br>  
is granted a worldwide, perpetual, royalty-free, non-exclusive license<br>  
to exercise all rights associated with the contents of this file for<br>  
any purpose whatsoever. =A0No rights are reserved.<br>

=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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<br>  
Regards,<br>

- Dwayne<br><font color=3D"#888888">

<br>

-- <br>

Dwayne C. Litzberger <<a href=3D"mailto:dlitz@dlitz.net" target=3D"\_bl=  
ank">dlitz@dlitz.net</a>><br>

=A0 =A0 =A0Key-signing key =A0 - 19E1 1FE8 B3CF F273 ED17 =A04A24 928C EC1=  
3 39C2 5CF7<br>

</font></blockquote></div><br><br clear=3D"all"><br>-- <br>Jeethu Rao<br></div></div>

--000e0cd209d0e5a3d40464a23054--

00INDEX This file

LICENSE.orig Original (deprecated) license for the Python Cryptography Toolkit

LICENSE.libtom LICENSE file from LibTomCrypt

stmts/ Statements by contributors

## Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):

~~~~~

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

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

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1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)
2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)
3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).
4. Removing some modules altogether without replacing them.

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=====

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=====

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=====  
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Requests includes some vendorized python libraries to ease installation:

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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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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
2.1.2	2.1.1	2002	PSF	yes

2.1.3	2.1.2	2002	PSF	yes
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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
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes

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```
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Copyright (C) <year> <name of author>
```

```
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```
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.
```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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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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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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dateutil - Extensions to the standard Python datetime module.

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## History

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

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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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
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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 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-----

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claiming to be:-
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```

SUBMISSION TYPE: TSU  
SUBMITTED BY: Dwayne C. Litzenberger  
SUBMITTED FOR: Dwayne C. Litzenberger  
POINT OF CONTACT: Dwayne C. Litzenberger  
PHONE and/or FAX: +1-613-693-1296  
MANUFACTURER: n/a  
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")  
ECCN: 5D002

NOTIFICATION: <http://www.pycrypto.org/>

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

---

Dwayne C. Litzenberger <dlitz@dlitz.net>

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

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

Version: 2.6.3i

Charset: noconv

Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGVnbVwth+BAQEcuwf9EWnXLqSO5bPzR9K9QnTPcsKbTljKjPxr  
d+q0E7eE8VtnvviUcTAR9o27yvyzOPxdFT864MQA7OTSbPK39aGAgA4fgAgvYH9t  
UNjJ/kv8QLz/aa2fi/HNjyrwnqFnUI0uqwpOrQGbz8Y+SGpVh1gKqy1Ju45L+doq  
sxbzCOpjgRv2zDdNR/2SnFmDWQXv8dSeonwIHpQDft8/LVA/gHiTDmteQIOhJQ6o  
XYhY+HbRjsD741/GSpOt9IIN5ln0UgshFoLIndnNSAvWf4aPyh5KCN7ho+/BC0v/  
W/pqSSIPkwmhbhPHoOltTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==  
=3oIX

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

### 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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CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2  
-----

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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,

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GPL-compatible, etc. Right now, I'm not really sure what to tell them. =20  
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on the point of whether distributing modified versions is allowed. (It=20  
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Distribute and use freely; there are no restrictions on further  
dissemination and usage except those imposed by the laws of your  
country of residence. This software is provided "as is" without  
warranty of fitness for use or suitability for any purpose, express  
or implied. Use at your own risk or not at all.

=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
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Incorporating the code into commercial products is permitted; you do  
not have to make source available or contribute your changes back  
(though that would be nice).

--amk (www.amk.ca)

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

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=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. Litzenberger <dlitz@dlitz.net>

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

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

--YiEDa0DAkWCtVeE4

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

Content-Description: Digital signature

Content-Disposition: inline

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

Version: GnuPG v1.4.5 (GNU/Linux)

iEYEARECAAYFAkko52IACgkQHbG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ

ylAn33a3ZjkteyJaTbzEqImOEw8JGpf

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

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

The intention is that it be public domain.

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

You may.

--amk  
From dlitz@dlitz.net Sat 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
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
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=====
```

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

--amk (www.amk.ca)

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

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

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

X-Maildir-Dup-Checked: Yes

Return-Path: <markmoraes@yahoo.com>

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

Delivered-To: dwon@rivest.dlitz.net

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

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

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

Received: from localhost (localhost [127.0.0.1])

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

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

Received: (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+mZwRb6rGkDj763caOAlo8Ect/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.92TXl4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWWJYVyp50clsUFS Hzf7Zbpa8P1Yoe\_xSzf3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X onq8h\_TmzX9g84Bin9g\_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv\_bj\_Ghxw--

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

X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1

Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)  
From: M Moraes <markmoraes@yahoo.com>  
Reply-To: moraes@computer.org  
Subject: Re: PyCrypto license clarification  
To: "Dwayne C. 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/>.  
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> People often ask me what license PyCrypto is covered by, if  
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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  
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> (though that would be nice).  
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> --amk  
>  
>  
> (www.amk.ca)  
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> contributions to PyCrypto,  
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>  
>  
> =====  
>  
> The contents of this file are  
> dedicated to the public domain. To the  
> extent that dedication to the public  
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> is granted a worldwide, perpetual,  
> royalty-free, non-exclusive license  
> to exercise all rights associated with  
> the contents of this file for  
> any purpose whatsoever. No  
> rights are reserved.  
>  
> =====  
>  
> Regards,  
> - Dwayne  
>  
> -- Dwayne C. Litzenberger <dlitz@dlitz.net>  
> Key-signing key - 19E1  
> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009  
Date: Mon, 20 Apr 2009 20:01:37 -0400  
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
To: moraes@computer.org  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>  
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
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.

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>Mark.

>

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>> Date: Saturday, April 18, 2009, 9:14 AM

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

>>

>>

>> =====

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>> country of residence. This

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>> warranty of fitness for use or

>> suitability for any purpose, express

>> or implied. Use at your own risk or

>> not at all.

>>

>> =====

>>

>> Incorporating the code into commercial

>> products is permitted; you do

>> not have to make source available or

>> contribute your changes back

>> (though that would be nice).

>>  
>> --amk  
>>  
>>  
>> (www.amk.ca)  
>>  
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>> Code\_, by Van Lindberg. I have already contacted A.  
>> M. Kuchling, Robey  
>> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they  
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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.  
>>  
>> =====  
>>  
>> Regards,  
>> - Dwayne  
>>  
>> -- Dwayne C. Litzenger <dlitz@dlitz.net>  
>> Key-signing key - 19E1

>> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

>>

>

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

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

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

Date: Mon, 16 Feb 2009 12:58:00 -0800

From: Robey Pointer <robey@lag.net>

Subject: Re: PyCrypto license clarification

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

Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)

Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

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

Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

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

>

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

>

>

> =

> =====

> The contents of this file are dedicated to the public domain. To

> the

> extent that dedication to the public domain is not available,

> 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.

>

> =

> =====

>

In case I haven't replied to this yet: Yes, this is fine with me.

robey

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

Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCfQmYYuVODvIlyLg0hgCI9LAbQ  
SH8AoLJgaq1lli7/ZYDc+/Cd8VO0xLbr  
=Mv6g

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

Date: Sun, 23 Nov 2008 15:54:35 -0800

From: Wim Lewis <wiml@hhhh.org>

Subject: Re: PyCrypto license clarification

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

Cc: Wim Lewis <wiml@hhhh.org>

Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.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?

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> 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 Mon May 4 22:49:14 2009  
Date: Mon, 4 May 2009 22:49:14 -0400  
From: "Dwayne C. Litzenberger" <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)

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?

```
=====
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 joris@bontje.nl Tue May 5 03:08:32 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <joris@bontje.nl>

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

Delivered-To: dwon@rivest.dlitz.net

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

by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 03:08:32 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 2315B40583

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 01:08:32 -0600 (CST)

Received: (vmmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600

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

Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97

Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])

by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C

for <dlitz@dlitz.net>; Tue, 5 May 2009 01:08:30 -0600 (CST)

Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000

Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])

(envelope-sender <joris@bontje.nl>)

by 10.170.1.96 (qmail-ldap-1.03) with SMTP  
for <>; 5 May 2009 07:08:25 -0000  
Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)  
id 9BE9B15759B; Tue, 5 May 2009 09:08:25 +0200 (CEST)  
Received: from firewall66.interaccess.nl (firewall66.interaccess.nl  
[193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;  
Tue, 05 May 2009 09:08:25 +0200  
Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>  
Date: Tue, 05 May 2009 09:08:25 +0200  
From: joris@bontje.nl  
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
Subject: Re: PyCrypto license clarification  
References: <20090505024914.GA9219@rivest.dlitz.net>  
In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset=ISO-8859-1;  
format="flowed"  
Content-Disposition: inline  
Content-Transfer-Encoding: 7bit  
User-Agent: Internet Messaging Program (IMP) H3 (4.1.3)  
Status: RO  
X-Status: A  
Content-Length: 3488

Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

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

=====  
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,  
Joris

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

> 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/>.  
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> 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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> 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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>  
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> - 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.  
> I was very excited to read that it is now one of the installed libraries  
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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

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

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

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

---

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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 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: (vmmailmgr-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  
Vn55qlIqTdom4e9zIUUEE6MwZo9kqi/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=jze7KSMkUGilfVCXKXaaXMi5NAtGdMQOtVZZfRNyGSy68xOd2sxefjyig3EFT6Nv6  
Q3opUMsT96Q6zjZND55w446kTh2uBTNz4d3NwIeEWJnG3xcliRQu/mXPFP8AzPI3CefL  
1ornJLM1eQ2XyuZA73jem+SJtfdHUcSD1UhgI=  
MIME-Version: 1.0  
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,  
03 Aug 2009 09:14:03 -0700 (PDT)  
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>  
References: <20090803014825.GA1326@rivest.dlitz.net>  
From: Paul Swartz <paulswartz@gmail.com>  
Date: Mon, 3 Aug 2009 12:13:43 -0400  
Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>  
Subject: Re: PyCrypto license clarification  
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
Content-Type: text/plain; charset=UTF-8  
Content-Transfer-Encoding: quoted-printable  
Status: RO  
X-Status: A  
Content-Length: 1450

On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenger<dlitz@dlitz.net> 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=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
 =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D  
 > =C2=A0The contents of this file are dedicated to the public domain. =C2=  
 =A0To the  
 > =C2=A0extent that dedication to the public domain is not available, every=  
 one  
 > =C2=A0is granted a worldwide, perpetual, royalty-free, non-exclusive lice=  
 nse  
 > =C2=A0to exercise all rights associated with the contents of this file fo=  
 r  
 > =C2=A0any purpose whatsoever. =C2=A0No rights are reserved.  
 > =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
 =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
 =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D

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

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

From dlitz@dlitz.net Mon Aug 3 14:35:01 2009  
 Date: Mon, 3 Aug 2009 14:35:01 -0400  
 From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
 To: Paul Swartz <paulswartz@gmail.com>  
 Subject: Re: PyCrypto license clarification  
 Message-ID: <20090803183501.GA17472@rivest.dlitz.net>  
 References: <20090803014825.GA1326@rivest.dlitz.net>  
 <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>  
 MIME-Version: 1.0  
 Content-Type: text/plain; charset=iso-8859-1; format=flowed  
 Content-Disposition: inline  
 Content-Transfer-Encoding: 8bit

In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

>On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenger<dlitz@dlitz.net> wrote:

>> Hi Paul,

>>

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>> "z3p" and/or other names. May I, on your behalf, dedicate to the public

>> domain all your contributions to PyCrypto, with the following notice?

>>

>> =====

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

>> =====

>

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

Perfect! Thanks for the quick response!

--

Dwayne C. Litzenger <dlitz@dlitz.net>

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

From dlitz@dlitz.net Sat Feb 28 21:45:09 2009

Date: Sat, 28 Feb 2009 21:45:09 -0500

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

To: Barry A Warsaw <barry@python.org>

Subject: PyCrypto license clarification

Message-ID: <20090301024509.GA13195@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2535

Hi Barry,

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

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

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

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

--amk (www.amk.ca)

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

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```



to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

---

Regards,  
- Dwayne

--

Dwayne C. 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. Litzenger wrote:

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

> working on a new release at <http://www.pycrypto.org/>.

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

Python library.

> I understand that you have made contributions to PyCrypto. May I, =20

> on your behalf, dedicate to the public domain all your contributions =20=

> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,

Barry

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

Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLdHI6agk  
evkInSJQAcVHIznVIVeR5IXgvDUMakZjU4SOV7MqkhsKA9Ilet7PaD9VSYgn3ra5  
gElwI2DQDoOy5GExXMm74gqrrb1PCCbCRmpaYNo+DZohwHkeFBjwDRA3wItOrH7  
SK4w9VBJtfY=3D

=3DQduY

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

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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```
=====
```

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```
=====
```

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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 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  
B5E6VQuGVEyzBbNsctyVgq6DhQiQtouCLZymSViobmuDmKn5DtUKoxpDk0xCxQmHYaas  
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=Ym7CStuDEfJKay1AJyWZkZmJA1lnTcwCG6akBHAXLld8ht6PFcmlsffzZG8hJCIVJ8  
vljqcT+G6cywVTBw1pyGX7ECYzr0+vhGvgdpACGrS24zikHfpSSd5GFogzXaLvGVH8p  
bqSHpfWKKtEP4gAQkiNeIq1GNtR2j8U3fnRyg=  
MIME-Version: 1.0  
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;  
Sun, 08 Mar 2009 14:27:54 -0700 (PDT)  
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>  
References: <20090301042414.GA15122@rivest.dlitz.net>  
Date: Mon, 9 Mar 2009 02:57:54 +0530  
Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>  
Subject: Re: PyCrypto license clarification  
From: Jeethu Rao <jeethurao@gmail.com>  
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054

Status: RO

Content-Length: 7668

--000e0cd209d0e5a3d40464a23054

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.

I don't really check this email address all that often,

please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenger <dlitz@dlitz.net> wrote:

> Hi Jeethu,

>

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

> working on a new release at <http://www.pycrypto.org/>.

>

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

> GPL-compatible, etc. Right now, I'm not really sure what to tell them. The

> text in the current LICENSE file (quoted below) is not entirely clear on the

> point of whether distributing modified versions is allowed. (It says

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>

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> dissemination and usage except those imposed by the laws of your

> country of residence. This software is provided "as is" without

> 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

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> 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.  
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> I understand that you have made contributions to PyCrypto. May I, on your  
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> =====  
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> is granted a worldwide, perpetual, royalty-free, non-exclusive license  
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> any purpose whatsoever. No rights are reserved.  
> =====  
>  
> Regards,  
> - Dwayne  
>  
> --  
> Dwayne C. Litzengerger <dlitz@dlitz.net>  
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>

--  
Jeethu Rao

--000e0cd209d0e5a3d40464a23054  
Content-Type: text/html; charset=ISO-8859-1  
Content-Transfer-Encoding: quoted-printable

Hi Dwayne,<div>My contribution to pycrypto are very very minimal (The sha256  
module, IIRC).</div><div>I'd be fine with the public domain license for  
or PyCrypto.</div><div><br></div><div>Jeethu Rao</div><div>PS: Apologies for  
the delay in my response.</div>  
<div>I don't really check this email address all that often,</div><div>=  
please direct any further correspondence to <a href="mailto:jeethu@jeethu=  
rao.com">jeethu@jeethurao.com</a><br><div><br><div class="gmail\_quote">On=  
Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzengerger <span dir="ltr"><=  
<a href="mailto:dlitz@dlitz.net">dlitz@dlitz.net</a></span> wrote:<br>  
>  
<blockquote class="gmail\_quote" style="margin:0 0 0 .8ex;border-left: 1px  
#ccc solid;padding-left: 1ex;">Hi Jeethu,<br>  
<br>

I am the new maintainer of the Python Cryptography Toolkit, and I am working  
on a new release at <a href="http://www.pycrypto.org/" target="\_blank="

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<br>

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<br>

<br>

--amk [www.amk.ca](http://www.amk.ca)

<br>

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To the

extent that dedication to the public domain is not available, everyone  
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to exercise all rights associated with the contents of this file for  
any purpose whatsoever. =A0No rights are reserved.<br>  
=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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=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D<br>  
<br>

Regards,<br>

- Dwayne<br><font color=3D"#888888">

<br>

-- <br>

Dwayne C. Litzenger <<a href=3D"mailto:dlitz@dlitz.net" target=3D"\_bl=  
ank">dlitz@dlitz.net</a>><br>

=A0 =A0 =A0Key-signing key =A0 - 19E1 1FE8 B3CF F273 ED17 =A0A4A24 928C EC1=  
3 39C2 5CF7<br>

</font></blockquote></div><br><br clear=3D"all"><br>-- <br>Jeethu Rao<br>

</div></div>

--000e0cd209d0e5a3d40464a23054--

00INDEX This file

LICENSE.orig Original (deprecated) license for the Python Cryptography Toolkit

LICENSE.libtom LICENSE file from LibTomCrypt

stmts/ Statements by contributors

Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):

~~~~~

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

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

To rectify this situation for PyCrypto 2.1, the following steps have  
been taken:

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## 1.564 rollup-plugin-less 1.1.2

## 1.565 rollup-plugin-less-loader 0.2.1

## 1.566 rollup-plugin-node-resolve 3.0.2

## 1.567 rollup-plugin-peer-deps-external 2.0.0

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# 1.569 rollup-plugin-url 1.3.0

# 1.570 rootfiles 8.1 :11.e17

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# 1.571 rpcbind 0.2.0 :47.e17

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# 1.573 rsync 3.1.2 :6.e17\_6.1

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Version 3, 29 June 2007

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1.

2.

(a)

(b)



(c)

(d)

3.

(a)

(b)

(c)

(d)

4.

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5.

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enc/euc\_tw.c

enc/gb18030.c

enc/gb2312.c

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enc/iso\_8859\_10.c

enc/iso\_8859\_11.c

enc/iso\_8859\_13.c

enc/iso\_8859\_14.c

enc/iso\_8859\_15.c

enc/iso\_8859\_16.c

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enc/iso\_8859\_5.c

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enc/iso\_8859\_7.c

enc/iso\_8859\_8.c

enc/iso\_8859\_9.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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enc/encdb.c  
enc/euc\_jp.c  
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enc/euc\_tw.c  
enc/gb18030.c  
enc/gb2312.c  
enc/gbk.c  
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util.c (partly):

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random.c

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A C-program for MT19937, with initialization improved 2002/2/10.  
Coded by Takuji Nishimura and Makoto Matsumoto.  
This is a faster version by taking Shawn Cokus's optimization,  
Matthe Bellew's simplification, Isaku Wada's real version.

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

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Any feedback is very welcome.

<http://www.math.keio.ac.jp/matumoto/emt.html>

email: [matumoto@math.keio.ac.jp](mailto:matumoto@math.keio.ac.jp)

vsnprintf.c:

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ext/nkf/nkf-utf8/nkf.c:  
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```

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#####
```

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```

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## 1.576.1 Available under license :

```
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<!DOCTYPE appendix PUBLIC "-//OASIS//DTD DocBook XML V4.4//EN"
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 <acronym>GNU</acronym> General Public License version 3
</title>
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 Version 3, 29 June 2007
</para>
<para>
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 <ulink url="http://fsf.org/">http://fsf.org/</ulink>
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<bridgehead renderas="sect1">
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<para>

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<bridgehead>

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</bridgehead>

<bridgehead renderas="sect1">

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</bridgehead>

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<bridgehead renderas="sect1">

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<para>

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<para>

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<para>

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<para>

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<orderedlist numeration="loweralpha">

<listitem>

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<listitem>

<para>

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<para>

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<orderedlist numeration="loweralpha">

<listitem>

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</listitem>

<listitem>

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<listitem>

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<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>

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

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<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 &ldquo;entity transaction&rdquo; 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&rsquo;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 &ldquo;contributor&rdquo; 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&rsquo;s &ldquo;contributor version&rdquo;.

</para>

<para>

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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.

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</para>

<para>

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<bridgehead renderas="sect1">

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</bridgehead>

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</para>

<bridgehead renderas="sect1">

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</bridgehead>

<para>

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</para>

<bridgehead renderas="sect1">

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</bridgehead>

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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>

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ever published by the Free Software Foundation.

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</para>

<bridgehead renderas="sect1">

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</bridgehead>

<para>

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</para>

<bridgehead renderas="sect1">

16. Limitation of Liability.

</bridgehead>

<para>

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</para>

<bridgehead renderas="sect1">

17. Interpretation of Sections 15 and 16.

</bridgehead>

<para>

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

warranty or assumption of liability accompanies a copy of the Program in return for a fee.

</para>

<bridgehead>

END OF TERMS AND CONDITIONS

</bridgehead>

<bridgehead renderas="sect1">

How to Apply These Terms to Your New Programs

</bridgehead>

<para>

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

</para>

<para>

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

</para>

<screen>

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

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

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

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

</screen>

<para>

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

</para>

<para>

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

</para>

<screen>

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

author</replaceable>

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

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

</screen>

<para>

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

</para>

<para>

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

</para>

<para>

The `<acronym>GNU</acronym>` General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the `<acronym>GNU</acronym>` Lesser General Public License instead of this License. But first, please read `<ulink url="http://www.gnu.org/philosophy/why-not-lgpl.html">http://www.gnu.org/philosophy/why-not-lgpl.html</ulink>`.

</para>

</appendix>

<?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>,</para>

<city>Boston</city>,</para>

<state>MA</state>

<postcode>02111-1307</postcode>

<country>USA</country>  
</address>.  
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<para> Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.  
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</legalnotice>  
<releaseinfo> Version 2, June 1991</releaseinfo>  
</appendixinfo>  
<title>GNU General Public License</title>  
<sect1>  
<title>Preamble</title>  
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</para>  
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</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.



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</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>

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</para>

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</para>

</sect2>

<sect2>

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</title>

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</sect2>

<sect2>

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</sect2>

<sect2>

<title>Section 6

</title>

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<sect2>

<title>Section 7

</title>

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</sect2>

<sect2>

<title>Section 8

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<sect2>

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</title>

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</sect2>

<sect2>

<title>Section 10

</title>

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</sect2>

<sect2>

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</title>

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<sect2>

<title>Section 12

</title>

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</para>

</sect2>

</sect1>

<sect1>

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</title>

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<para>

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</para>

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</para>

<para>

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</para>

<para>

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</para>

<para>

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</para>

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</para>

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<signature of Ty Coon>, 1 April 1989  
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</sect1>

</appendix>

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Version 3, 29 June 2007

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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>
```

```
This program is free software: you can redistribute it and/or modify
it under the terms of the GNU 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
GNU General Public License for more details.
```

```
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along with this program. If not, see <http://www.gnu.org/licenses/>.
```

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

If the program does terminal interaction, make it output a short

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```
<program> Copyright (C) <year> <name of author>
This program 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.
```

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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
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 ./dns/rdtypes/IN/NAPTR.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/IN/NSAP.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/IN/NSAP\_PTR.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/IN/PX.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/IN/SRV.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/IN/WKS.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/IN/\_\_init\_\_.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/\_\_init\_\_.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/dsbase.py PYTHON 2010,2011  
 ./dns/rdtypes/mxbase.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/nsbase.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/txtbase.py PYTHON 2006,2007,2009,2010,2011

./dns/renderer.py PYTHON 2001,2002,2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/resolver.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/reversename.py PYTHON 2006,2007,2009,2010,2011  
 ./dns/rrset.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/set.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/tokenizer.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/tsig.py PYTHON 2001,2002,2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/tsigkeyring.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/ttl.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/update.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/version.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/wiredata.py PYTHON 2011  
 ./dns/zone.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./examples/ddns.py X 2006,2007  
 ./examples/e164.py X 2006,2007  
 ./examples/mx.py X 2003,2004,2005,2006,2007  
 ./examples/name.py X 2003,2004,2005,2006,2007  
 ./examples/reverse.py X 2003,2004,2005,2006,2007  
 ./examples/reverse\_name.py X 2006,2007  
 ./examples/xfr.py X 2003,2004,2005,2006,2007  
 ./examples/zonediff.py X 2010,2011  
 ./setup.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./tests/Makefile MAKE 2003,2004,2005,2006,2007,2009,2010,2011  
 ./tests/bugs.py PYTHON 2006,2007,2009,2010,2011  
 ./tests/dnssec.py PYTHON 2011  
 ./tests/example X 2003,2004,2005,2006,2007  
 ./tests/example1.good X 2003,2004,2005,2006,2007  
 ./tests/example2.good X 2003,2004,2005,2006,2007  
 ./tests/flags.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./tests/message.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./tests/name.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./tests/namedict.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./tests/ntoaaton.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./tests/rdtypeandclass.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./tests/resolver.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./tests/rrset.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./tests/set.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
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 ./tests/update.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
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<bridgehead renderas="sect1">

0. Definitions.

</bridgehead>

<para>

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

</para>

<para>

&ldquo;Copyright&rdquo; also means copyright-like laws that apply to other

kinds of works, such as semiconductor masks.

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<bridgehead renderas="sect1">

1. Source Code.

</bridgehead>

<para>

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

non-source form of a work.

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<bridgehead renderas="sect1">

2. Basic Permissions.

</bridgehead>

<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 &ldquo;keep intact all notices&rdquo;.

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

</para>  
</listitem>  
</orderedlist>

<para>  
A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "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 &ldquo;User Product&rdquo; is either (1) a &ldquo;consumer product&rdquo;, 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, &ldquo;normally used&rdquo; 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>  
&ldquo;Installation Information&rdquo; 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>

&ldquo;Additional permissions&rdquo; are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License

without regard to the additional permissions.

</para>

<para>

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

</para>

<para>

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

</para>

<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 &ldquo;contributor&rdquo; 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&rsquo;s &ldquo;contributor version&rdquo;.

</para>

<para>

A contributor&rsquo;s &ldquo;essential patent claims&rdquo; 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, &ldquo;control&rdquo; 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&rsquo;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 &ldquo;patent license&rdquo; 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 &ldquo;grant&rdquo; 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 &ldquo;or any later version&rdquo; applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the <acronym>GNU</acronym> General Public License, you may choose any version ever published by the Free Software Foundation.

</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&rsquo;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 &ldquo;copyright&rdquo; line and a pointer to where the full notice is found.

</para>

<screen>

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

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

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

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

</screen>

<para>

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

</para>

<para>

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

</para>

<screen>

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

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

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

</screen>

<para>

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

</para>

<para>

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## 1.579 screen 4.1.0

:0.25.20120314git3c2946.e17

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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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```
<program> Copyright (C) <year> <name of author>
This program 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.
```

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## 1.580 sed 4.2.2 :5.e17

### 1.580.1 Available under license :

```
=====
```

```
Test 1.1:101
```

```
=====
```

```
Testing argument parsing
```

```
First type
```

```
e1_11_1
```

```
e1_11_1
```

```
e1_11_2
```

```
e1_11_2
```

```
e1_11_3
```

```
e1_11_3
```

e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====

Test 1.2:102

=====

e1\_11\_1  
e1\_11\_2  
e1\_11\_3  
e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10  
e1\_11\_11  
e1\_11\_12  
e1\_11\_13  
e1\_11\_14

=====

Test 1.3:103

=====

e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2

e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====

Test 1.4:104

=====

e1\_11\_1  
e1\_11\_2  
e1\_11\_3  
e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10  
e1\_11\_11  
e1\_11\_12  
e1\_11\_13  
e1\_11\_14

Second type

=====

Test 1.4.1:105

=====

11\_1

11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====  
Test 1.5:106

=====  
s1\_11\_1  
s1\_11\_1  
s1\_11\_2  
s1\_11\_2  
s1\_11\_3  
s1\_11\_3  
s1\_11\_4  
s1\_11\_4  
s1\_11\_5  
s1\_11\_5  
s1\_11\_6  
s1\_11\_6  
s1\_11\_7  
s1\_11\_7  
s1\_11\_8  
s1\_11\_8  
s1\_11\_9  
s1\_11\_9  
s1\_11\_10  
s1\_11\_10  
s1\_11\_11  
s1\_11\_11  
s1\_11\_12  
s1\_11\_12  
s1\_11\_13  
s1\_11\_13  
s1\_11\_14  
s1\_11\_14

=====  
Test 1.6:107

=====

s1\_11\_1  
s1\_11\_1  
s1\_11\_2  
s1\_11\_2  
s1\_11\_3  
s1\_11\_3  
s1\_11\_4  
s1\_11\_4  
s1\_11\_5  
s1\_11\_5  
s1\_11\_6  
s1\_11\_6  
s1\_11\_7  
s1\_11\_7  
s1\_11\_8  
s1\_11\_8  
s1\_11\_9  
s1\_11\_9  
s1\_11\_10  
s1\_11\_10  
s1\_11\_11  
s1\_11\_11  
s1\_11\_12  
s1\_11\_12  
s1\_11\_13  
s1\_11\_13  
s1\_11\_14  
s1\_11\_14

=====

Test 1.7:108

=====

e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8



e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====  
Test 1.8:109

=====  
e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====  
Test 1.9:110

=====

s1\_11\_1  
s1\_11\_2  
s1\_11\_3  
s1\_11\_4  
s1\_11\_5  
s1\_11\_6  
s1\_11\_7  
s1\_11\_8  
s1\_11\_9  
s1\_11\_10  
s1\_11\_11  
s1\_11\_12  
s1\_11\_13  
s1\_11\_14

=====

Test 1.10:111

=====

s1\_11\_1  
s1\_11\_2  
s1\_11\_3  
s1\_11\_4  
s1\_11\_5  
s1\_11\_6  
s1\_11\_7  
s1\_11\_8  
s1\_11\_9  
s1\_11\_10  
s1\_11\_11  
s1\_11\_12  
s1\_11\_13  
s1\_11\_14

=====

Test 1.11:112

=====

e1\_11\_1  
e1\_11\_2  
e1\_11\_3  
e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10  
e1\_11\_11

e1\_11\_12  
e1\_11\_13  
e1\_11\_14

=====  
Test 1.12:113  
=====

e1\_11\_1  
e1\_11\_2  
e1\_11\_3  
e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10  
e1\_11\_11  
e1\_11\_12  
e1\_11\_13  
e1\_11\_14

=====  
Test 1.13:114  
=====

e1\_11\_1  
e2\_e1\_11\_1  
e2\_e1\_11\_1  
e1\_11\_2  
e2\_e1\_11\_2  
e2\_e1\_11\_2  
e1\_11\_3  
e2\_e1\_11\_3  
e2\_e1\_11\_3  
e1\_11\_4  
e2\_e1\_11\_4  
e2\_e1\_11\_4  
e1\_11\_5  
e2\_e1\_11\_5  
e2\_e1\_11\_5  
e1\_11\_6  
e2\_e1\_11\_6  
e2\_e1\_11\_6  
e1\_11\_7  
e2\_e1\_11\_7  
e2\_e1\_11\_7  
e1\_11\_8  
e2\_e1\_11\_8

e2\_e1\_11\_8  
e1\_11\_9  
e2\_e1\_11\_9  
e2\_e1\_11\_9  
e1\_11\_10  
e2\_e1\_11\_10  
e2\_e1\_11\_10  
e1\_11\_11  
e2\_e1\_11\_11  
e2\_e1\_11\_11  
e1\_11\_12  
e2\_e1\_11\_12  
e2\_e1\_11\_12  
e1\_11\_13  
e2\_e1\_11\_13  
e2\_e1\_11\_13  
e1\_11\_14  
e2\_e1\_11\_14  
e2\_e1\_11\_14

=====  
Test 1.14:115

=====  
s1\_11\_1  
s2\_s1\_11\_1  
s2\_s1\_11\_1  
s1\_11\_2  
s2\_s1\_11\_2  
s2\_s1\_11\_2  
s1\_11\_3  
s2\_s1\_11\_3  
s2\_s1\_11\_3  
s1\_11\_4  
s2\_s1\_11\_4  
s2\_s1\_11\_4  
s1\_11\_5  
s2\_s1\_11\_5  
s2\_s1\_11\_5  
s1\_11\_6  
s2\_s1\_11\_6  
s2\_s1\_11\_6  
s1\_11\_7  
s2\_s1\_11\_7  
s2\_s1\_11\_7  
s1\_11\_8  
s2\_s1\_11\_8  
s2\_s1\_11\_8  
s1\_11\_9

s2\_s1\_11\_9  
s2\_s1\_11\_9  
s1\_11\_10  
s2\_s1\_11\_10  
s2\_s1\_11\_10  
s1\_11\_11  
s2\_s1\_11\_11  
s2\_s1\_11\_11  
s1\_11\_12  
s2\_s1\_11\_12  
s2\_s1\_11\_12  
s1\_11\_13  
s2\_s1\_11\_13  
s2\_s1\_11\_13  
s1\_11\_14  
s2\_s1\_11\_14  
s2\_s1\_11\_14

=====

Test 1.15:116

=====

e1\_11\_1  
s1\_e1\_11\_1  
s1\_e1\_11\_1  
e1\_11\_2  
s1\_e1\_11\_2  
s1\_e1\_11\_2  
e1\_11\_3  
s1\_e1\_11\_3  
s1\_e1\_11\_3  
e1\_11\_4  
s1\_e1\_11\_4  
s1\_e1\_11\_4  
e1\_11\_5  
s1\_e1\_11\_5  
s1\_e1\_11\_5  
e1\_11\_6  
s1\_e1\_11\_6  
s1\_e1\_11\_6  
e1\_11\_7  
s1\_e1\_11\_7  
s1\_e1\_11\_7  
e1\_11\_8  
s1\_e1\_11\_8  
s1\_e1\_11\_8  
e1\_11\_9  
s1\_e1\_11\_9  
s1\_e1\_11\_9

e1\_11\_10  
s1\_e1\_11\_10  
s1\_e1\_11\_10  
e1\_11\_11  
s1\_e1\_11\_11  
s1\_e1\_11\_11  
e1\_11\_12  
s1\_e1\_11\_12  
s1\_e1\_11\_12  
e1\_11\_13  
s1\_e1\_11\_13  
s1\_e1\_11\_13  
e1\_11\_14  
s1\_e1\_11\_14  
s1\_e1\_11\_14

=====  
Test 1.16:117

=====

e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14  
e1\_11\_1

e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====

Test 1.17:118

=====

11\_1  
11\_1  
11\_2  
11\_2  
11\_3  
11\_3  
11\_4  
11\_4  
11\_5  
11\_5  
11\_6  
11\_6  
11\_7  
11\_7  
11\_8  
11\_8  
11\_9

11\_9  
11\_10  
11\_10  
11\_11  
11\_11  
11\_12  
11\_12  
11\_13  
11\_13  
11\_14  
11\_14

=====  
Test 1.18:119

=====  
11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

Testing address ranges

=====  
Test 2.1:120

=====  
11\_4

=====  
Test 2.2:121

=====  
12\_6

=====  
Test 2.3:122

=====  
11\_14

=====  
Test 2.4:123



=====  
12\_9

=====  
Test 2.5:124  
=====

=====  
Test 2.6:125  
=====

=====  
Test 2.7:126  
=====

=====  
Test 2.9:127  
=====

=====  
Test 2.10:128  
=====

=====  
Test 2.11:129  
=====

=====  
Test 2.12:130  
=====

=====  
Test 2.13:131  
=====

11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6

11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9

=====  
Test 2.14:132

=====  
11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9

=====  
Test 2.15:133  
=====

11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9

=====

Test 2.16:134

=====

11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6

=====

Test 2.17:135

=====

11\_4  
11\_5  
11\_6

11\_7  
11\_8  
11\_9  
11\_10  
11\_14  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9

=====

Test 2.18:136

=====

12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9

=====

Test 2.19:137

=====

11\_12

=====

Test 2.20:138

=====

11\_7

Brace and other grouping

=====

Test 3.1:139

=====

11\_1  
11\_2  
11\_3  
^11T4\$  
^11T5\$  
^11T6\$  
^11T7\$  
^11T8\$

^11T9\$  
^11T10\$  
^11T11\$  
^11T12\$  
11\_13  
11\_14

=====  
Test 3.2:140

=====  
11\_1  
11\_2  
11\_3  
^11\_4  
^11\_5  
^11\_6\$  
^11\_7\$  
^11T8\$  
^11\_9\$  
^11\_10\$  
^11\_11  
^11\_12  
11\_13  
11\_14

=====  
Test 3.3:141

=====  
^11T1\$  
^11T2\$  
^11T3\$  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
^11T13\$  
^11T14\$

=====  
Test 3.4:142

=====  
^11\_1  
^11\_2

^i1\_3  
i1\_4  
i1\_5  
i1\_6  
i1\_7  
i1\_8  
i1\_9  
i1\_10  
i1\_11  
i1\_12  
^i1\_13  
^i1\_14  
Testing a c d and i commands

=====

Test 4.1:143

=====

before\_i1\_1  
after\_ibefore\_i1\_1  
before\_i1\_2  
after\_ibefore\_i1\_2  
before\_i1\_3  
after\_ibefore\_i1\_3  
before\_i1\_4  
after\_ibefore\_i1\_4  
before\_i1\_5  
after\_ibefore\_i1\_5  
before\_i1\_6  
after\_ibefore\_i1\_6  
before\_i1\_7  
after\_ibefore\_i1\_7  
before\_i1\_8  
after\_ibefore\_i1\_8  
before\_i1\_9  
after\_ibefore\_i1\_9  
before\_i1\_10  
after\_ibefore\_i1\_10  
before\_i1\_11  
after\_ibefore\_i1\_11  
before\_i1\_12  
after\_ibefore\_i1\_12  
before\_i1\_13  
after\_ibefore\_i1\_13  
before\_i1\_14  
after\_ibefore\_i1\_14  
before\_i2\_1  
after\_ibefore\_i2\_1  
before\_i2\_2

after\_ibefore\_il2\_2  
before\_il2\_3  
after\_ibefore\_il2\_3  
before\_il2\_4  
after\_ibefore\_il2\_4  
before\_il2\_5  
after\_ibefore\_il2\_5  
before\_il2\_6  
inserted  
after\_ibefore\_il2\_6  
before\_il2\_7  
after\_ibefore\_il2\_7  
before\_il2\_8  
after\_ibefore\_il2\_8  
before\_il2\_9  
after\_ibefore\_il2\_9

=====

Test 4.2:144

=====

before\_al1\_1  
after\_abefore\_al1\_1  
before\_al1\_2  
after\_abefore\_al1\_2  
before\_al1\_3  
after\_abefore\_al1\_3  
before\_al1\_4  
after\_abefore\_al1\_4  
before\_a5-1211\_5  
after\_abefore\_a5-1211\_5  
appended  
before\_a5-1211\_6  
after\_abefore\_a5-1211\_6  
appended  
before\_a5-1211\_7  
after\_abefore\_a5-1211\_7  
appended  
before\_a5-1211\_8  
after\_abefore\_a5-1211\_8  
appended  
before\_a5-1211\_9  
after\_abefore\_a5-1211\_9  
appended  
before\_a5-1211\_10  
after\_abefore\_a5-1211\_10  
appended  
before\_a5-1211\_11  
after\_abefore\_a5-1211\_11

appended  
before\_a5-1211\_12  
after\_abefore\_a5-1211\_12  
appended  
before\_al1\_13  
after\_abefore\_al1\_13  
before\_al1\_14  
after\_abefore\_al1\_14  
before\_al2\_1  
after\_abefore\_al2\_1  
before\_al2\_2  
after\_abefore\_al2\_2  
before\_al2\_3  
after\_abefore\_al2\_3  
before\_al2\_4  
after\_abefore\_al2\_4  
before\_al2\_5  
after\_abefore\_al2\_5  
before\_al2\_6  
after\_abefore\_al2\_6  
before\_al2\_7  
after\_abefore\_al2\_7  
before\_al2\_8  
after\_abefore\_al2\_8  
before\_al2\_9  
after\_abefore\_al2\_9

=====

Test 4.3:145

=====

^11\_1  
^11\_1\$  
appended  
^11\_2  
^11\_2\$  
appended  
^11\_3  
^11\_3\$  
appended  
^11\_4  
^11\_4\$  
appended  
^11\_5  
^11\_5\$  
appended  
^11\_6  
^11\_6\$  
appended



^11\_7  
^11\_7\$  
appended  
^11\_8  
appended  
^11\_8  
11\_9\$  
^11\_10  
appended  
^11\_10  
11\_11\$  
^11\_12  
^11\_12\$  
appended  
^11\_13  
^11\_13\$  
appended  
^11\_14  
^11\_14\$  
appended  
^12\_1  
^12\_1\$  
^12\_2  
^12\_2\$  
^12\_3  
^12\_3\$  
^12\_4  
^12\_4\$  
^12\_5  
^12\_5\$  
^12\_6  
^12\_6\$  
^12\_7  
^12\_7\$  
^12\_8  
^12\_8\$  
^12\_9  
^12\_9\$

=====

Test 4.4:146

=====

hello  
hello  
hello  
hello  
hello  
hello

hello  
hello  
hello  
hello  
hello  
hello  
hello  
hello

=====  
Test 4.5:147

=====  
hello

=====  
Test 4.6:148

=====  
hello

=====  
Test 4.7:149

=====  
hello

=====  
Test 4.8:150

=====  
Testing labels and branching

=====  
Test 5.1:151

=====  
label2\_11\_1

label3\_label2\_11\_1

label1\_11\_2

label1\_11\_3

label1\_11\_4

label1\_11\_5

label1\_11\_6

label1\_11\_7

label1\_11\_8

label1\_11\_9

label1\_11\_10

label1\_11\_11

label1\_11\_12

label2\_11\_13

label3\_label2\_11\_13

label2\_11\_14

label3\_label2\_11\_14

=====  
Test 5.2:152

=====  
tested l2\_1  
tested l2\_2  
tested l2\_3  
tested l2\_4  
tested l2\_5  
tested l2\_6  
tested l2\_7  
tested l2\_8  
tested l2\_9  
tested l2\_10  
tested l2\_11  
tested l2\_12  
tested l2\_13  
tested l2\_14

=====  
Test 5.3:153

=====  
^l1\_1  
^l1\_1\$  
^l1\_2  
^l1\_2\$  
^l1\_3  
^l1\_3\$  
^l1\_4  
^l1\_4\$  
l1\_5\$  
l1\_6\$  
l1\_7\$  
l1\_8\$

=====  
Test 5.4:154

=====  
^l1\_1\$  
^l1\_2\$  
^l1\_3\$  
^l1\_4\$  
^l1\_5\$  
^l1\_6\$  
^l1\_7\$  
^l1\_8\$  
l1\_9\$

11\_10\$  
11\_11\$  
11\_12\$  
11\_13\$  
11\_14\$

=====  
Test 5.5:155

=====  
^11\_1  
^11\_2  
^11\_4  
^11\_6  
^11\_8

=====  
Test 5.6:156

=====  
11\_1  
11\_2  
11\_3  
11\_4  
11\_5

=====  
Test 5.7:157

=====  
11\_1  
11\_2  
11\_3  
11\_4  
hello  
11\_5

=====  
Test 5.8:158

=====  
m1\_1  
m1\_2  
m1\_3  
m1\_4  
m1\_5  
m1\_6  
m1\_7  
m1\_8  
m1\_9  
m1\_10  
m1\_11

m1\_12  
m1\_13  
m1\_14  
Pattern space commands

=====

Test 6.1:159

=====

changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed

=====

Test 6.2:160

=====

11\_1  
11\_2  
11\_3  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====

Test 6.3:161

=====

11\_5  
11\_6  
11\_7  
11\_8  
11\_9

11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====  
Test 6.4:162

=====  
11\_1  
11\_2  
11\_3  
11\_2  
11\_3  
11\_5  
11\_2  
11\_3  
11\_2  
11\_3  
11\_6  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====  
Test 6.5:163

=====  
11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====

Test 6.6:164

=====

Testing print and file routines

=====

Test 7.1:165

=====

```

\001\002\003\004\005\006\a\b\t$
\v\fr\016\017\020\021\022\023\024\025\026\027\030\031\032\033\034\
\035\036\037 !"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNPOQRSTUVWXYZ\
YZ[\]^_`abcdefghijklmnopqrstuvwxy{|}~\177\200\201\202\203\204\205\
\206\207\210\211\212\213\214\215\216\217\220\221\222\223\224\225\226\
\227\230\231\232\233\234\235\236\237\240\241\242\243\244\245\246\247\
\250\251\252\253\254\255\256\257\260\261\262\263\264\265\266\267\270\
\271\272\273\274\275\276\277\300\301\302\303\304\305\306\307\310\311\
\312\313\314\315\316\317\320\321\322\323\324\325\326\327\330\331\332\
\333\334\335\336\337\340\341\342\343\344\345\346\347\350\351\352\353\
\354\355\356\357\360\361\362\363\364\365\366\367\370\371\372\373\374\
\375\376\377$
$

```

=====

Test 7.2:166

=====

- 11\_1
- 11\_2
- 11\_3
- 11\_4
- 11\_5
- 11\_6
- 11\_7
- 11\_8
- 11\_9
- 11\_10
- 11\_11
- 11\_12
- 11\_13
- 11\_14
- 15
- 12\_1
- 16
- 12\_2
- 17
- 12\_3
- 18
- 12\_4
- 19

12\_5  
20  
12\_6  
21  
12\_7  
22  
12\_8  
23  
12\_9

=====

Test 7.3:167

=====

11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

w results

11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12

=====

Test 7.4:168

=====

11\_1  
11\_2  
11\_3  
11\_4  
12\_1  
12\_2



12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====  
Test 7.5:169

=====  
11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====  
Test 7.6:170

=====  
11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9

11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====  
Test 7.8:171  
=====

Testing substitution commands

=====  
Test 8.1:172  
=====

XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX

=====  
Test 8.2:173  
=====

XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX

=====  
Test 8.3:174  
=====

XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX

=====  
Test 8.4:175  
=====

11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====  
Test 8.5:176  
=====

11X1  
11X2  
11X3  
11X4  
11X5  
11X6  
11X7  
11X8  
11X9

11X10  
11X11  
11X12  
11X13  
11X14

=====  
Test 8.6:177  
=====

(1)(1)(\_(1)  
(1)(1)(\_(2)  
(1)(1)(\_(3)  
(1)(1)(\_(4)  
(1)(1)(\_(5)  
(1)(1)(\_(6)  
(1)(1)(\_(7)  
(1)(1)(\_(8)  
(1)(1)(\_(9)  
(1)(1)(\_(1)(0)  
(1)(1)(\_(1)(1)  
(1)(1)(\_(1)(2)  
(1)(1)(\_(1)(3)  
(1)(1)(\_(1)(4)

=====  
Test 8.7:178  
=====

(&)(&)(&)(&  
(&)(&)(&)(&  
(&)(&)(&)(&  
(&)(&)(&)(&  
(&)(&)(&)(&  
(&)(&)(&)(&  
(&)(&)(&)(&  
(&)(&)(&)(&  
(&)(&)(&)(&  
(&)(&)(&)(&  
(&)(&)(&)(&)(&  
(&)(&)(&)(&)(&  
(&)(&)(&)(&)(&  
(&)(&)(&)(&)(&  
(&)(&)(&)(&)(&  
(&)(&)(&)(&)(&

=====  
Test 8.8:179  
=====

x\_x1x11  
x\_x1x12  
x\_x1x13

x\_x1x14  
x\_x1x15  
x\_x1x16  
x\_x1x17  
x\_x1x18  
x\_x1x19  
x\_x1x110  
x\_x1x111  
x\_x1x112  
x\_x1x113  
x\_x1x114

=====  
Test 8.9:180

=====

11u0  
u1  
u21  
11u0  
u1  
u22  
11u0  
u1  
u23  
11u0  
u1  
u24  
11u0  
u1  
u25  
11u0  
u1  
u26  
11u0  
u1  
u27  
11u0  
u1  
u28  
11u0  
u1  
u29  
11u0  
u1  
u210  
11u0  
u1  
u211

l1u0  
u1  
u212  
l1u0  
u1  
u213  
l1u0  
u1  
u214

=====

Test 8.10:181

=====

l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X0  
l1\_X1  
l1\_X2  
l1\_X3  
l1\_X4

=====

Test 8.11:182

=====

lX\_1  
lX\_2  
lX\_3  
lX\_4  
lX\_5  
lX\_6  
lX\_7  
lX\_8  
lX\_9  
lX\_10  
lX\_11  
lX\_12  
lX\_13  
lX\_14  
s wfile results  
lX\_1  
lX\_2

IX\_3  
IX\_4  
IX\_5  
IX\_6  
IX\_7  
IX\_8  
IX\_9  
IX\_10  
IX\_11  
IX\_12  
IX\_13  
IX\_14

=====  
Test 8.12:183

=====  
IX\_X  
IX\_X  
IX\_X  
IX\_4  
IX\_5  
IX\_6  
IX\_7  
IX\_8  
IX\_9  
IX\_X0  
IX\_XX  
IX\_XX  
IX\_XX  
IX\_X4

=====  
Test 8.13:184

=====  
18\_8  
18\_7  
18\_6  
18\_5  
18\_4  
18\_3  
18\_2  
18\_1  
18\_0  
18\_89  
18\_88  
18\_87  
18\_86  
18\_85

=====

Test 8.14:185

=====

18\_8

18\_7

18\_6

18\_5

18\_4

18\_3

18\_2

18\_1

18\_0

18\_89

18\_88

18\_87

18\_86

18\_85

=====

Test 8.15:186

=====

11\_1X11\_2

11\_3

11\_4

11\_5

11\_6

11\_7

11\_8

11\_9

11\_10

11\_11

11\_12

11\_13

11\_14

=====

Test 8.16:187

=====

eeefff

Xeefff

XYeeff

XYeYff

XYeYYf

XYeYYY

XYeYYY

=====



Test 8.17:188

=====

&&&&

&&&&

&&&&

&&&&

&&&&

&&&&

&&&&

&&&&

&&&&

&&&&&

&&&&&

&&&&&

&&&&&

&&&&&

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## 1.583 setuptools 38.4.0

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## 1.590 six 1.11.0

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## 1.592 slang 2.2.4 :11.e17

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## 1.594 snmp4j 2.5.8

## 1.595 socat 1.7.3.2 :2.e17

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## 1.606 sudo 1.8.23 :3.el7

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Anderson, Jamie

Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
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Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
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Fobes, Steve  
Frysinger, Mike  
G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
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Hayman, Randy M.  
Henke, Joachim  
Hideaki, Yoshifuji  
Hieb, Dave



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Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Jorge, Joel Pele  
Juhani, Timo  
Kikuchi, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
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Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
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Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
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MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Marchionna, Michael D.  
Markham, Paul  
Martinian, Emin  
Meskes, Michael  
Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieusma, Jeff

Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
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Paradis, Chantal  
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Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
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Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
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Ryabinkin, Eygene  
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Saucier, Jean-Francois  
Schoenfeld, Patrick  
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Torek, Chris  
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Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
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The following people have worked to translate sudo into other languages:

Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
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Cho, Seong-ho  
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Diguez, Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
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Karvonen, Jorma  
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Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
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Kramer, Jakob

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## 1.607 superagent 3.8.3

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## 1.608 superagent-defaults 0.1.14



# 1.609 superelasticsearch 0.1.1

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# 1.611 systemd 219 :62.el7\_6.7

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The of the start-stop-daemon

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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## 1.620 tftp 5.2 :22.e17

## 1.621 tornado 6.0.1

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## 1.627 unzip 6.0 :19.e17

### 1.627.1 Available under license :

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This is the Info-ZIP file COPYING (for UnZip), last updated 17 Jul 2000.

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#### FIRST NOTE:

This file contains some details about the copyright history of contributions to the UnZip project.

Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.

Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

-----

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):

Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered

by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/\*"), Steve P. Miller (Pocket UnZip GUI "wince/\*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding in an apparatus that performs LZW encoding, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP License. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

- \* MoreFiles
- \*
- \* A collection of File Manager and related routines
- \*



- \* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
- \* with significant code contributions by Nitin Ganatra
- \* (Apple Macintosh Developer Technical Support Emeritus)
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The following copyright applies to the Mac OS "macbin3" decoding code (extra field compatibility with ZipIt):

- \* MacBinaryIII.h
- \*
- \* Copyright 1997 Christopher Evans (cevans@poppybank.com)
- \*
- \* Basic encoding and decoding of Macintosh files to the
- \* MacBinary III spec.
- \* -----
- \* This source is copyrighted by Christopher Evans (cevans@poppybank.com)
- \* (available at ftp://ftp.lazerware.com/MacBinaryIII\_src\_C.sit
- \* homepage of Leonard Rosenthol leonardr@netcom.com)

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-----

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(now distributed separately):

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- \* Do not use any of this in a commercial product.

Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

-----

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-----

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- \* author and cannot be altered in any way without written consent
- \* from Steve P. Miller.

-----

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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## 1.628 url-loader 1.1.1

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## 1.629 urllib3 1.22

## 1.630 ustr 1.0.4 :16.el7

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Version 2.1, February 1999

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## 1.631 util-linux 2.23.2 :59.e17\_6.1

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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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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

---

```
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
```

#6: 12544 3584 0x7 (freebsd)

Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

\_\_ts\_dev\_\_: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

| Device | Boot | Start | End | Blocks | Id | System |
|--------|------|-------|-----|--------|----|--------|
|--------|------|-------|-----|--------|----|--------|

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

\_\_ts\_dev\_\_: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

| Device      | Boot | Start | End  | Blocks | Id | System |
|-------------|------|-------|------|--------|----|--------|
| __ts_dev__1 |      | 2048  | 4095 | 1024   | 83 | Linux  |

Create 2st primary partition

1bebf87248e05d6e4e62b749da65d023 bsd.img

Set 2nd partition type

2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout-----

\_\_ts\_dev\_\_: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

| Device      | Boot | Start | End   | Blocks | Id | System  |
|-------------|------|-------|-------|--------|----|---------|
| __ts_dev__1 |      | 2048  | 4095  | 1024   | 83 | Linux   |
| __ts_dev__2 |      | 4096  | 20479 | 8192   | a5 | FreeBSD |

-----  
Create default BSD  
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

| #  | start | end   | size  | fstype | [fsize | bsize | cpg] |
|----|-------|-------|-------|--------|--------|-------|------|
| c: | 4096  | 20479 | 16384 | unused | 0      | 0     |      |
| d: | 0     | 16064 | 16065 | unused | 0      | 0     |      |

BSD disklabel command (m for help):

Command (m for help):

-----

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

| #  | start | end   | size  | fstype | [fsize | bsize | cpg] |
|----|-------|-------|-------|--------|--------|-------|------|
| a: | 4096  | 6144  | 2049  | 4.2BSD | 0      | 0     | 0    |
| c: | 4096  | 20479 | 16384 | unused | 0      | 0     |      |
| d: | 0     | 16064 | 16065 | unused | 0      | 0     |      |

BSD disklabel command (m for help):

Command (m for help):

-----

Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

|             |                  |            |          |
|-------------|------------------|------------|----------|
| 0 unused    | 5 4.1BSD         | 9 4.4LFS   | d boot   |
| 1 swap      | 6 Eighth Edition | a unknown  | e ADOS   |
| 2 Version 6 | 7 4.2BSD         | b HPFS     | f HFS    |
| 3 Version 7 | 8 MS-DOS         | c ISO-9660 | 10 AdvFS |
| 4 System V  |                  |            |          |

BSD disklabel command (m for help):

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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.

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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 such an object file uses only numerical parameters, data

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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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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.

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<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:

Yoyodyne, Inc., hereby disclaims all copyright interest in the 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!

# 1.632 vim 7.4.160 :6.el7\_6

## 1.632.1 Available under license :

```
/*
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 *
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 */
```

```
Arnaud LE HORS BULL Research FRANCE -- Koala Project
 (XPM - X PixMap format version 2 & 3)
Internet: lehors@sophia.inria.fr
Surface Mail: Arnaud LE HORS, INRIA - Sophia Antipolis,
 2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone: (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F
" Vim syntax file
" Language: Software Distributor product specification file
" (POSIX 1387.2-1995).
" Maintainer: Rex Barzee <rex_barzee@hp.com>
" Last change: 25 Apr 2001
```

```
if version < 600
" Remove any old syntax stuff hanging around
syn clear
```

```
elseif exists("b:current_syntax")
 finish
endif

" Product specification files are case sensitive
syn case match

syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor

syn match psfUnquotString +[^"#][^#]*+ contained
syn region psfQuotString start="+"+ skip="+\\\\"+ end="+"+ contained

syn match psfObjTag "\<[-_+A-Z0-9a-z]\+(\.[-_+A-Z0-9a-z]\+)*" contained
syn match psfAttAbbrev ",\<(\(fa\|fr\|[aclqrv])\)\(<|>|\<=|\>=|\|=|\==)\)[^,]" contained
syn match psfObjTags "\<[-_+A-Z0-9a-z]\+(\.[-_+A-Z0-9a-z]\+)*\(\s\+\<[-_+A-Z0-9a-z]\+(\.[-_+A-Z0-9a-z]\+)*\)*" contained

syn match psfNumber "\<d\+>" contained
syn match psfFloat "\<d\+\>\(\.d\+\>\)*" contained

syn match psfLongDate "\<d\d\d\d\d\d\d\d\d\d\d\d\d\>" contained

syn keyword psfState available configured corrupt installed transient contained
syn keyword psfPState applied committed superseded contained

syn keyword psfBoolean false true contained

" Some of the attributes covered by attUnquotString and attQuotString:
" architecture category_tag control_directory copyright
" create_date description directory file_permissions install_source
" install_type location machine_type mod_date number os_name os_release
" os_version pose_as_os_name pose_as_os_release readme revision
" share_link title vendor_tag
syn region psfAttUnquotString matchgroup=psfAttrib start=~^\s*[^#]\+\s\+[^#"]~rs=e-1
contains=psfUnquotString,psfComment end=~$~ keepend oneline

syn region psfAttQuotString matchgroup=psfAttrib start=~^\s*[^#]\+\s\+"~rs=e-1
contains=psfQuotString,psfComment skip=~\\"~ matchgroup=psfQuotString end=~"~ keepend

" These regions are defined in attempt to do syntax checking for some
" of the attributes.
syn region psfAttTag matchgroup=psfAttrib start="\s*tag\s\+" contains=psfObjTag,psfComment end="$" keepend
oneline
```

```

syn region psfAttSpec matchgroup=psfAttrib
start="\s*(ancestor\|applied_patches\|applied_to\|contents\|corequisites\|exquisites\|prerequisites\|software_spec\|
supersedes\|superseded_by\)\s\|+" contains=psfObjTag,psfAttAbbrev,psfComment end="$" keepend

syn region psfAttTags matchgroup=psfAttrib start="\s*all_filesets\s\|+" contains=psfObjTags,psfComment end="$"
keepend

syn region psfAttNumber matchgroup=psfAttrib
start="\s*(compressed_size\|instance_id\|media_sequence_number\|sequence_number\|size)\s\|+"
contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttTime matchgroup=psfAttrib start="\s*(create_time\|ctime\|mod_time\|mtime\|timestamp)\s\|+"
contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttFloat matchgroup=psfAttrib start="\s*(data_model_revision\|layout_version)\s\|+"
contains=psfFloat,psfComment end="$" keepend oneline

syn region psfAttLongDate matchgroup=psfAttrib start="\s*install_date\s\|+" contains=psfLongDate,psfComment
end="$" keepend oneline

syn region psfAttState matchgroup=psfAttrib start="\s*(state)\s\|+" contains=psfState,psfComment end="$"
keepend oneline

syn region psfAttPState matchgroup=psfAttrib start="\s*(patch_state)\s\|+" contains=psfPState,psfComment
end="$" keepend oneline

syn region psfAttBoolean matchgroup=psfAttrib
start="\s*(is_kernel\|is_locatable\|is_patch\|is_protected\|is_reboot\|is_reference\|is_secure\|is_sparse)\s\|+"
contains=psfBoolean,psfComment end="$" keepend oneline

syn match psfComment "#.*$"

```

" Define the default highlighting.

" For version 5.7 and earlier: only when not done already

" For version 5.8 and later: only when an item doesn't have highlighting yet

```
if version >= 508 || !exists("did_psf_syntax_inits")
```

```
if version < 508
```

```
let did_psf_syntax_inits = 1
```

```
command -nargs=+ HiLink hi link <args>
```

```
else
```

```
command -nargs=+ HiLink hi def link <args>
```

```
endif
```

```
HiLink psfObject Statement
```

```
HiLink psfAttrib Type
```

```
HiLink psfQuotString String
```

```
HiLink psfObjTag Identifier
```

HiLink psfAttAbbrev PreProc

HiLink psfObjTags Identifier

HiLink psfComment Comment

delcommand HiLink

endif

" Long descriptions and copyrights confuse the syntax highlighting, so

" force vim to backup at least 100 lines before the top visible line

" looking for a sync location.

syn sync lines=100

let b:current\_syntax = "psf"

\*uganda.txt\* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

\*uganda\* \*Uganda\* \*copying\* \*copyright\* \*license\*

SUMMARY

\*iccf\* \*ICCF\*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

<http://iccf-holland.org/>

<http://www.vim.org/iccf/>

<http://www.iccf.nl/>

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see |manual-copyright|.

=== begin of license ===

VIM LICENSE

D) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

- 1) This license text must be included unmodified.
- 2) The modified Vim must be distributed in one of the following five ways:

- a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

- b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

- c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

- d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

- e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

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- 4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.
- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.
- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.
- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.
- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.
- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED\_BY define.

=====



Kibaale Children's Centre \*kcc\* \*Kibaale\* \*charity\*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

\*donate\*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water

and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:

Kibaale Children's Centre  
p.o. box 1658  
Masaka, Uganda, East Africa

Sending money: \*iccf-donations\*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.

Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.  
Kibaale Children's Fund c/o Pacific Academy  
10238-168 Street  
Surrey, B.C. V4N 1Z4  
Canada  
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.  
This will allow for tax deduction if you live in Holland.  
Postbank, nr. 4548774  
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.  
Check the ICCF web site for the latest information:  
<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.  
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

[Bram@iccf-holland.org](mailto:Bram@iccf-holland.org)

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse  
Otherwise, send a check in euro or US dollars to the address  
below. Minimal amount: \$70 (my bank does not accept smaller  
amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar  
Finsterruetihof 1  
8134 Adliswil  
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

/\*

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(XPM - X PixMap format version 2 & 3)

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                  2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE

Voice phone:    (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

\*uganda.txt\*    For Vim version 7.4. Last change: 2013 Jul 06

*\*uganda\* \*Uganda\* \*copying\* \*copyright\* \*license\**

## SUMMARY

*\*iccf\* \*ICCF\**

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see `|kcc|` below or visit the ICCF web site, available at these URLs:

<http://iccf-holland.org/>

<http://www.vim.org/iccf/>

<http://www.iccf.nl/>

You can also sponsor the development of Vim. Vim sponsors can vote for features. See `|sponsor|`. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see `|manual-copyright|`.

=== begin of license ===

## VIM LICENSE

D) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

- 1) This license text must be included unmodified.
- 2) The modified Vim must be distributed in one of the following five ways:

- a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes.

The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely `vim.sf.net`, `www.vim.org` and/or `comp.editors`). When it is completely

impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is  
<maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

==== end of license ====

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.
- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.
- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.
- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.
- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.
- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED\_BY define.

=====  
Kibaale Children's Centre \*kcc\* \*Kibaale\* \*charity\*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

\*donate\*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my



personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:

Kibaale Children's Centre  
p.o. box 1658  
Masaka, Uganda, East Africa

Sending money: \*iccf-donations\*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

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Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy

10238-168 Street

Surrey, B.C. V4N 1Z4

Canada

Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.

This will allow for tax deduction if you live in Holland.

Postbank, nr. 4548774

IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.

Check the ICCF web site for the latest information:

<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

[Bram@iccf-holland.org](mailto:Bram@iccf-holland.org)

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar

Finsterruetihof 1

8134 Adliswil

Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

" Vim syntax file

" Language: Software Distributor product specification file

" (POSIX 1387.2-1995).

" Maintainer: Rex Barzee <rex\_barzee@hp.com>

" Last change: 25 Apr 2001

if version < 600

" Remove any old syntax stuff hanging around

syn clear

elseif exists("b:current\_syntax")

finish

endif

" Product specification files are case sensitive

syn case match

syn keyword psfObject bundle category control\_file depot distribution

syn keyword psfObject end file fileset host installed\_software media

syn keyword psfObject product root subproduct vendor

syn match psfUnquotString +[^"# ][^#]\*+ contained

syn region psfQuotString start="+\" skip=+\\\" end="+\" contained

syn match psfObjTag "\<[-\_+A-Z0-9a-z]\+(\.[-\_+A-Z0-9a-z]\+)" contained

syn match psfAttAbbrev ",\<(\(fa\|fr\|[aclqrv]\)\)\(\<\|\>\|<=\|\>=\||=\|==\)[^,]\+\" contained

syn match psfObjTags "\<[-\_+A-Z0-9a-z]\+(\.[-\_+A-Z0-9a-z]\+)"\*(\s\+\<[-\_+A-Z0-9a-z]\+(\.[-\_+A-Z0-9a-z]\+))\+)"\* contained

syn match psfNumber "\<d\|+\>" contained

syn match psfFloat "\<d\|+\>(\.d\|+\>)" contained

syn match psfLongDate "\<d\|d\|d\|d\|d\|d\|d\|d\|d\|d\|d\>" contained

syn keyword psfState available configured corrupt installed transient contained

syn keyword psfPState applied committed superseded contained

syn keyword psfBoolean false true contained

"Some of the attributes covered by attUnquotString and attQuotString:

" architecture category\_tag control\_directory copyright

" create\_date description directory file\_permissions install\_source

" install\_type location machine\_type mod\_date number os\_name os\_release

" os\_version pose\_as\_os\_name pose\_as\_os\_release readme revision

" share\_link title vendor\_tag

syn region psfAttUnquotString matchgroup=psfAttrib start=~^\s\*[^# ]\+\s\+[^# ] ~rs=e-1

contains=psfUnquotString,psfComment end=~\$~ keepend oneline

syn region psfAttQuotString matchgroup=psfAttrib start=~^\s\*[^# ]\+\s\+" ~rs=e-1

contains=psfQuotString,psfComment skip=~\\\" ~ matchgroup=psfQuotString end=~\" ~ keepend

```

" These regions are defined in attempt to do syntax checking for some
" of the attributes.
syn region psfAttTag matchgroup=psfAttrib start="^\s*tag\s\+" contains=psfObjTag,psfComment end="$" keepend
oneline

syn region psfAttSpec matchgroup=psfAttrib
start="^\s*(ancestor\|applied_patches\|applied_to\|contents\|corequisites\|exquisites\|prerequisites\|software_spec\|
supersedes\|superseded_by\)\s\+" contains=psfObjTag,psfAttAbbrev,psfComment end="$" keepend

syn region psfAttTags matchgroup=psfAttrib start="^\s*all_filesets\s\+" contains=psfObjTags,psfComment end="$"
keepend

syn region psfAttNumber matchgroup=psfAttrib
start="^\s*(compressed_size\|instance_id\|media_sequence_number\|sequence_number\|size)\s\+"
contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttTime matchgroup=psfAttrib start="^\s*(create_time\|ctime\|mod_time\|mtime\|timestamp)\s\+"
contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttFloat matchgroup=psfAttrib start="^\s*(data_model_revision\|layout_version)\s\+"
contains=psfFloat,psfComment end="$" keepend oneline

syn region psfAttLongDate matchgroup=psfAttrib start="^\s*install_date\s\+" contains=psfLongDate,psfComment
end="$" keepend oneline

syn region psfAttState matchgroup=psfAttrib start="^\s*(state)\s\+" contains=psfState,psfComment end="$"
keepend oneline

syn region psfAttPState matchgroup=psfAttrib start="^\s*(patch_state)\s\+" contains=psfPState,psfComment
end="$" keepend oneline

syn region psfAttBoolean matchgroup=psfAttrib
start="^\s*(is_kernel\|is_locatable\|is_patch\|is_protected\|is_reboot\|is_reference\|is_secure\|is_sparse)\s\+"
contains=psfBoolean,psfComment end="$" keepend oneline

syn match psfComment "#.*$"

" Define the default highlighting.
" For version 5.7 and earlier: only when not done already
" For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
 if version < 508
 let did_psf_syntax_inits = 1
 command -nargs=+ HiLink hi link <args>
 else
 command -nargs=+ HiLink hi def link <args>
 endif
endif

```

```

endif

HiLink psfObject Statement
HiLink psfAttrib Type
HiLink psfQuotString String
HiLink psfObjTag Identifier
HiLink psfAttAbbrev PreProc
HiLink psfObjTags Identifier

HiLink psfComment Comment

delcommand HiLink
endif

```

```

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

```

```

let b:current_syntax = "psf"

```

## 1.633 virt-what 1.18 :4.el7

### 1.633.1 Available under license :

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Version 2, June 1991

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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 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 Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) 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. (Exception: 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.)

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

on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) 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,
- b) 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,
- 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.)

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.

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websocket - WebSocket client library for Python

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David Bolsover bolsover  
David Hall david\_hall  
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Doug Berkland berkland  
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Fred Lavigne l2fprod  
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Mario Cesar mario\_cesar  
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Patrick Wright pdoubleya  
Pierre Le Lannic weebib  
Ray Turnbull rturnbull

Ricardo Lopes rlopes  
Richard Bair rbair  
Richard Osbaldeston osbald  
Robert Eden reden  
Robert Stone ???  
Ronald Tetsuo Miura ronaldtm  
Salvan Haas syhaas  
Scott Delap scottdelap  
Sean McNamara allquixotic  
Simon Morris javakiddy  
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# 1.640 werkzeug 0.14.1

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## 1.641 whatwg-fetch 3.0.0

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# 1.643 WildFly 14.0.1

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<title>Eclipse Public License - Version 1.0</title>

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margin: 0.25in 0.5in 0.25in 0.5in;

tab-interval: 0.5in;

}

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margin-left: auto;

margin-top: 0.5em;

margin-bottom: 0.5em;

}

p.list {

margin-left: 0.5in;

margin-top: 0.05em;

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</body>

</html>

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

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

```
<head>
```

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

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

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

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

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

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

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

```
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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

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January 2004
</p>
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 <div class="clear"></div>
</div>
<div id="footer" class="container_16">
 <div class="links_grid_16">
 <div class="grid_3">
 <h4>Projects</h4>

HTTP Server
Abdera
Accumulo
ACE
ActiveMQ
Airavata
Allura
Ambari
Ant
Any23
APR
Archiva
Aries
Avro
Axis
Bigtop
Bloodhound
Buildr
BVal
Camel
Cassandra
Cayenne
Chemistry
Chukwa
Clerezza
CloudStack
Cocoon
```

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- <li><a href="http://steve.apache.org/" title="Apache's Python based single transferable vote software system">STeVe</a></li>
- <li><a href="http://storm.apache.org/" title="Distributed, real-time computation system">Storm</a></li>
- <li><a href="http://struts.apache.org/" title="Model 2 framework for building Java web applications">Struts</a></li>
- <li><a href="http://subversion.apache.org/" title="Version Control">Subversion</a></li>
- <li><a href="http://synapse.apache.org/" title="Enterprise Service Bus and Mediation Framework">Synapse</a></li>
- <li><a href="http://syncope.apache.org/" title="Managing digital identities in enterprise environments">Syncope</a></li>
- <li><a href="http://tajo.apache.org/" title="Big data warehouse system on Hadoop">Tajo</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://tez.apache.org/" title="High-performance and scalable distributed data processing framework">Tez</a></li>
- <li><a href="http://thrift.apache.org/" title="Framework for scalable cross-language services">Thrift</a></li>

- [development">Thrift</a></li>](#)
- [- \[- \\[- \\\[- \\\\[- \\\\\[- \\\\\\[- \\\\\\\[- \\\\\\\\[- \\\\\\\\\[- \\\\\\\\\\[- \\\\\\\\\\\[- \\\\\\\\\\\\[- \\\\\\\\\\\\\[- \\\\\\\\\\\\\\[- \\\\\\\\\\\\\\\[- \\\\\\\\\\\\\\\\[- \\\\\\\\\\\\\\\\\[- \\\\\\\\\\\\\\\\\\[- \\\\\\\\\\\\\\\\\\\[-\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\(http://xmlgraphics.apache.org/ "Conversion from XML to graphical output"\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\(http://xmlbeans.apache.org/ "XML-Java binding tool"\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\(http://xerces.apache.org/ "XML parsers in Java, C++ and Perl"\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\(http://xalan.apache.org/ "XSLT processors in Java and C++"\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\(http://wookie.apache.org/ "Widgets for Applications"\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\]\\\\\\\\\\\\\\(http://wink.apache.org/ "RESTful Web services Framework"\\\\\\\\\\\\\\)\\\\\\\\\\\\\]\\\\\\\\\\\\\(http://wicket.apache.org/ "Component-based Java Web Application Framework."\\\\\\\\\\\\\)\\\\\\\\\\\\]\\\\\\\\\\\\(http://whirr.apache.org/ "Libraries for running Cloud Services"\\\\\\\\\\\\)\\\\\\\\\\\]\\\\\\\\\\\(http://ws.apache.org/ "Projects related to Web Services"\\\\\\\\\\\)\\\\\\\\\\]\\\\\\\\\\(http://vxquery.apache.org/ "A parallel XQuery processor"\\\\\\\\\\)\\\\\\\\\]\\\\\\\\\(http://velocity.apache.org/ "A Java Templating Engine"\\\\\\\\\)\\\\\\\\]\\\\\\\\(http://vcl.apache.org/ "Virtual Computing Lab"\\\\\\\\)\\\\\\\]\\\\\\\(http://uima.apache.org/ "Framework and annotators for unstructured information analysis"\\\\\\\)\\\\\\]\\\\\\(http://tuscany.apache.org/ "An SCA based Service Composition Framework"\\\\\\)\\\\\]\\\\\(http://turbine.apache.org/ "A Java Servlet Web Application Framework and associated component library"\\\\\)\\\\]\\\\(http://trafficserver.apache.org/ "A fast, scalable and extensible HTTP/1.1 compliant caching proxy server"\\\\)\\\]\\\(http://tomee.apache.org/ "Java EE Web Profile built on Tomcat"\\\)\\]\\(http://tomcat.apache.org/ "A Java Servlet and JSP Container"\\)\]\(http://tiles.apache.org/ "A templating framework for web application user interfaces"\)](http://tika.apache.org "Content Analysis and Detection Toolkit")

</div>

<div class="grid\_3">

<h4>Foundation</h4>

<ul>

<li><a href="/foundation/faq.html">FAQ</a></li>

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

```

 Contact

</div>
<div class="grid_3 suffix_1">
<h4>Foundation Projects</h4>

Attic
Conferences
Community
Development
Incubator
<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 © 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>
<!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_xE-rWrJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
 <link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2ATB4XKGEvmoUk_p62PwI-
o2aW47EqqS0nD2dmPZoV4.css" media="all" />
 <link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2wI77kyP-
rJKVpFW5M3KFcj7Cb99lZalmubKIwWwsmU.css" media="all" />
 <link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_k3snrbsthqot7V7ccRZHS9OkCZkwBv4adtNieIV1bEU.css" media="print"
/>

 <!--[if lt IE 7]>
 <link type="text/css" rel="stylesheet" href="http://opensource.org/themes/garland/fix-ie.css?fnb7pm" 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":"meUjjBBfr6QFJv5kp0oKi152
l673C3xJMLGIQzbH9g0"},"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-
 MyBqFtDvzOmaSnCHKIG9yhm0ofMr7fNMG5Vy76N_uk" />
 <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>

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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...
visit and participate in the OSI wiki.

</p>

<div>

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

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

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

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

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

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

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

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

```

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

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

</html>

<!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">

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

<script type="text/javascript">

var _gaq = _gaq || [];

_gaq.push(['_setAccount', 'UA-89734-10']);

_gaq.push(['_setDomainName', 'jsoup.org']);

_gaq.push(['_trackPageview']);

(function() {

var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;

ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';

var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);

})();

</script>

```

</head>
<body class="n1">
<div class="wrap">
<div class="header">
<div class="nav-sections">
<ul>
<li class="n1-home"><h4><a href="/">jsoup</a></h4></li>
<li class="n1-news"><a href="/news/">News</a></li>
<li class="n1-bugs"><a href="/bugs">Bugs</a></li>
<li class="n1-discussion"><a href="/discussion">Discussion</a></li>
<li class="n1-download"><a href="/download">Download</a></li>
<li class="n1-api"><a href="/apidocs/">API Reference</a></li>
<li class="n1-cookbook"><a href="/cookbook/">Cookbook</a></li>
<li class="n1-try"><a href="http://try.jsoup.org/">Try jsoup</a></li>
</ul>
</div>
</div>
<div class="breadcrumb">
<a href="/">jsoup</a>
<span class="seperator">&raquo;</span> jsoup License
</div>
<div class="content">
<div class="col1">
<h1>jsoup License</h1>
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</div>
<!-- /col1 -->
<div class="col2">
</div>
<!-- /col2 -->
</div>
<!-- /content-->

```

```
<div class="footer">
  <b>jsoup HTML parser</b> &copy; 2009 - 2014
  <a href="http://jhy.io/" rel="author"><b>Jonathan Hedley</b></a>
</div>
</div>
<!-- /wrap -->
<script src="/rez/prettify.js"></script>
<script>prettyPrint();</script>
</body>
</html>
```

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Maven Artifact (<http://maven.apache.org/ref/3.2.5/maven-artifact>) org.apache.maven:maven-artifact:jar:3.2.5
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Maven Compat (<http://maven.apache.org/ref/3.2.5/maven-compat>) org.apache.maven:maven-compat:jar:3.2.5

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Maven Core (<http://maven.apache.org/ref/3.2.5/maven-core>) org.apache.maven:maven-core:jar:3.2.5

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Maven Embedder (<http://maven.apache.org/ref/3.2.5/maven-embedder>) org.apache.maven:maven-embedder:jar:3.2.5

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Maven Model Builder (<http://maven.apache.org/ref/3.2.5/maven-model-builder>) org.apache.maven:maven-model-builder:jar:3.2.5

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Maven Settings Builder (<http://maven.apache.org/ref/3.2.5/maven-settings-builder>) org.apache.maven:maven-settings-builder:jar:3.2.5

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Apache Maven Wagon :: Providers :: File Provider (<http://maven.apache.org/wagon/wagon-providers/wagon-file>) org.apache.maven.wagon:wagon-file:jar:2.8

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Apache Maven Wagon :: Providers :: HTTP Provider (<http://maven.apache.org/wagon/wagon-providers/wagon-http>) org.apache.maven.wagon:wagon-http:jar:2.8

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Aether API (<http://www.eclipse.org/aether/aether-api/>) org.eclipse.aether:aether-api:jar:1.0.0.v20140518

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org.eclipse.sisu.inject (<http://www.eclipse.org/sisu/org.eclipse.sisu.inject/>)

org.eclipse.sisu:org.eclipse.sisu.inject:eclipse-plugin:0.3.0.M1

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org.eclipse.sisu.plexus (<http://www.eclipse.org/sisu/org.eclipse.sisu.plexus/>)

org.eclipse.sisu:org.eclipse.sisu.plexus:eclipse-plugin:0.3.0.M1

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jsoup (<http://jsoup.org/>) org.jsoup:jsoup:jar:1.7.2

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Plexus Cipher: encryption/decryption Component (<http://spice.sonatype.org/plexus-cipher>)

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org.sonatype.plexus:plexus-sec-dispatcher:jar:1.3

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

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/*--

\$Id\$

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*/

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```
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="xml" indent="yes"/>

  <xsl:template match="/">
    <licenseSummary>
      <dependencies>
        <xsl:for-each select="list/item">
          <xsl:variable name="name" select="text()"/>
          <xsl:for-each select="document($name)/licenseSummary/dependencies/*">
            <xsl:text disable-output-escaping="no" />
            <xsl:copy>
              <xsl:apply-templates select="@* | node()"/>
              <xsl:text disable-output-escaping="no"/>
              <source>
                <xsl:value-of select="$name"/>
              </source>
              <xsl:text disable-output-escaping="no"/>
            </xsl:copy>
          </xsl:for-each>
        </xsl:for-each>
      </dependencies>
    </licenseSummary>
  </template>
</xsl:stylesheet>
```



```

    <full-feature-pack-licenses.xml>
      <xsl:copy>
        <xsl:apply-templates select="document('full-feature-pack-
licenses.xml')/licenseSummary/dependencies/*"/>
      </xsl:copy>
    </full-feature-pack-licenses.xml>
    <migration-feature-pack-licenses>
      <xsl:copy>
        <xsl:apply-templates select="document('migration-feature-pack-
licenses.xml')/licenseSummary/dependencies/*"/>
      </xsl:copy>
    </migration-feature-pack-licenses>
    <servlet-feature-pack-licenses.xml>
      <xsl:copy>
        <xsl:apply-templates select="document('servlet-feature-pack-
licenses.xml')/licenseSummary/dependencies/*"/>
      </xsl:copy>
    </servlet-feature-pack-licenses.xml>
  -->
</dependencies>
</licenseSummary>
</xsl:template>
<xsl:template match="@* | node()">
  <xsl:copy>
    <xsl:apply-templates select="@* | node()"/>
  </xsl:copy>
</xsl:template>
</xsl:stylesheet>
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

  <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
  <xsl:param name="version"/>
  <xsl:param name="product.release.name"/>
  <xsl:variable name="lowercase" select="abcdefghijklmnopqrstuvwxyz" />
  <xsl:variable name="uppercase" select="ABCDEFGHIJKLMNOPQRSTUVWXYZ!" />

  <xsl:template match="/">
    <html>
      <head>
        <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
        <link rel="stylesheet" type="text/css" href="licenses.css"/>
      </head>
      <body>
        <h2><xsl:value-of select="$product.release.name"/><xsl:text> </xsl:text><xsl:value-of select="substring-
before($version, '-')"/></h2>
        <p>The following material has been provided for informational purposes only, and should not be relied

```

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```
<!-- Read matching templates -->
<table>
  <tr>
    <th>Package Group</th>
    <th>Package Artifact</th>
    <th>Package Version</th>
    <th>Remote Licenses</th>
    <th>Local Licenses</th>
  </tr>
  <xsl:for-each select="licenseSummary/dependencies/dependency">
    <xsl:sort select="concat(groupId, '.', artifactId)"/>
    <xsl:variable name="GAV" select="concat(groupId, '.', artifactId, '.', version)"/>
    <xsl:variable name="countOfPrevious" select="count(preceding-sibling::*[(concat(groupId, '.',
artifactId, '.', version) = $GAV)])"/>
    <xsl:if test="$countOfPrevious = 0">
      <tr>
        <td><xsl:value-of select="groupId"/></td>
        <td><xsl:value-of select="artifactId"/></td>
        <td><xsl:value-of select="version"/></td>
        <td>
          <xsl:for-each select="licenses/license">
            <xsl:choose>
              <xsl:when test="name = 'Public Domain'">
                <xsl:value-of select="name"/><br/>
              </xsl:when>
              <xsl:otherwise>
                <a href="{./url}"><xsl:value-of select="name"/></a><br/>
              </xsl:otherwise>
            </xsl:choose>
          </xsl:for-each>
        </td>
        <td>
          <xsl:for-each select="licenses/license">
            <xsl:variable name="filename">
              <xsl:call-template name="remap-local-filename">
                <xsl:with-param name="name" select="name" />
              </xsl:call-template>
            </xsl:variable>
            <a href="{ $filename }"><xsl:value-of select="$filename"/></a><br/>
          </xsl:for-each>
        </td>
      </tr>
    </xsl:if>
  </xsl:for-each>
</table>
</body>
</html>
```

</xsl:template>

<xsl:template name="remap-local-filename">

<xsl:param name="name"/>

<xsl:choose>

<xsl:when test="\$name = 'BSD 3-Clause "New" or "Revised" License"'>

<xsl:text>bsd 3-clause new or revised license.html</xsl:text>

</xsl:when>

<xsl:when test="\$name = 'BSD 3-clause Clear License"'>

<xsl:text>bsd 3-clause clear license.html</xsl:text>

</xsl:when>

<xsl:when test="\$name = 'BSD 3-Clause No Nuclear License"'>

<xsl:text>bsd 3-clause no nuclear license.html</xsl:text>

</xsl:when>

<xsl:when test="\$name = 'Creative Commons Attribution 2.5"'>

<xsl:text>creative commons attribution 2.5.html</xsl:text>

</xsl:when>

<xsl:when test="\$name = 'GNU General Public License v2.0 only"'>

<xsl:text>gnu general public license v2.0 only.html</xsl:text>

</xsl:when>

<xsl:when test="\$name = 'ICU License"'>

<xsl:text>icu license.html</xsl:text>

</xsl:when>

<xsl:when test="\$name = 'Indiana University Extreme! Lab Software License 1.1.1"'>

<xsl:text>indiana university extreme lab software license 1.1.1.html</xsl:text>

</xsl:when>

<xsl:when test="\$name = 'Mozilla Public License 2.0"'>

<xsl:text>mozilla public license 2.0.html</xsl:text>

</xsl:when>

<xsl:when test="\$name = 'Plexus Classworlds License"'>

<xsl:text>plexus classworlds license.html</xsl:text>

</xsl:when>

<xsl:when test="\$name = 'Sax Public Domain Notice"'>

<xsl:text>sax public domain notice.html</xsl:text>

</xsl:when>

<xsl:when test="\$name = 'The JSoup MIT License"'>

<xsl:text>the jsoup mit license.html</xsl:text>

</xsl:when>

<xsl:when test="\$name = 'W3C Document License"'>

<xsl:text>w3c document license.html</xsl:text>

</xsl:when>

<xsl:when test="\$name = 'W3C Software Notice and Document License (2002-12-31)'">

<xsl:text>w3c software notice and document license (2002-12-31).html</xsl:text>

</xsl:when>

<xsl:otherwise>

<xsl:value-of select="concat(translate(\$name, \$uppercase, \$lowercase), '.txt')"/>

</xsl:otherwise>

</xsl:choose>

</xsl:template>
</xsl:stylesheet>
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<?xml version="1.0"?>

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

```

<xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
<xsl:param name="version"/>
<xsl:param name="product.release.name"/>
<xsl:variable name="lowercase" select="abcdefghijklmnopqrstuvwxyzyz" />
<xsl:variable name="uppercase" select="ABCDEFGHIJKLMNOPQRSTUVWXYZ!" />

<xsl:template match="/">
  <html>
    <head>
      <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
      <link rel="stylesheet" type="text/css" href="licenses.css"/>
    </head>
    <body>
      <h2><xsl:value-of select="$product.release.name"/><xsl:text> </xsl:text><xsl:value-of select="substring-
before($version, '-')"/> - Servlet Feature Pack</h2>
      <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
      <!-- Read matching templates -->
      <table>
        <tr>
          <th>Package Group</th>
          <th>Package Artifact</th>
          <th>Package Version</th>
          <th>Remote Licenses</th>
          <th>Local Licenses</th>
        </tr>
        <xsl:for-each select="licenseSummary/dependencies/dependency">
          <xsl:sort select="concat(groupId, '.', artifactId)"/>
          <tr>
            <td><xsl:value-of select="groupId"/></td>
            <td><xsl:value-of select="artifactId"/></td>
            <td><xsl:value-of select="version"/></td>
            <td>
              <xsl:for-each select="licenses/license">
                <a href="{./url}"><xsl:value-of select="name"/></a><br/>
              </xsl:for-each>
            </td>
            <td>
              <xsl:for-each select="licenses/license">
                <xsl:variable name="filename">
                  <xsl:call-template name="remap-local-filename">
                    <xsl:with-param name="name" select="name" />
                  </xsl:call-template>
                </xsl:variable>
                <a href="{ $filename }"><xsl:value-of select="$filename"/></a><br/>
              </xsl:for-each>
            </td>
          </tr>
        </xsl:for-each>
      </table>

```

```

        </tr>
    </xsl:for-each>
</table>
</body>
</html>
</xsl:template>

<xsl:template name="remap-local-filename">
    <xsl:param name="name"/>
    <xsl:choose>
        <xsl:when test="$name = 'GNU General Public License v2.0 only'">
            <xsl:text>gnu general public license v2.0 only.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = "">
            <xsl:text>.html</xsl:text>
        </xsl:when>
        <xsl:otherwise>
            <xsl:value-of select="concat(translate($name, $uppercase, $lowercase), '.txt')"/>
        </xsl:otherwise>
    </xsl:choose>
</xsl:template>
</xsl:stylesheet>

```

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```
<!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>
```

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

```
<title>GNU General Public License v2.0 - GNU Project - Free Software Foundation (FSF)</title>
```

```
<link rel="alternate" type="application/rdf+xml"
```

```
  href="http://www.gnu.org/licenses/old-licenses/gpl-2.0.rdf" />
```

```
</head>
```

```
<body>
```

```
<h3><a id="SEC1">GNU GENERAL PUBLIC LICENSE</a></h3>
```

```
<p>
```

```
Version 2, June 1991
```

```
</p>
```

```
<pre>
```

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</p>

<dl>

<dt></dt>

<dd>

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</dd>

<dt></dt>

<dd>

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<dt></dt>

<dd>

c)

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</p>

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</p>

<p>

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</p>

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</p>

<!-- we use this doubled UL to get the sub-sections indented, -->

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<dl>

<dt></dt>

<dd>

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</dd>

<dt></dt>

<dd>

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</dd>

<dt></dt>

<dd>

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</p>

<pre>

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</pre>

<p>

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</p>

<p>

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</p>

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

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

<p>
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(which makes passes at compilers) written
by James Hacker.
```

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

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</p>

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```
table {  
  border-collapse: collapse;  
}
```

```
table, th, td {  
  border: 1px solid navy;  
}
```

```

th {
  text-align: left;
  background-color: #BCC6CC;
}

```

```

th, td {
  padding: 2px;
  text-align: left;
}

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tr:nth-child(even) {
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 */

package org.wildfly.naming.java.permission;

import static org.junit.Assert.*;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

import org.junit.Test;

/**
 * Big ol' JNDI permission test case.

```

```

*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public class JndiPermissionTestCase {
    @Test
    public void testNameImplies() {
        // check the compat <<ALL BINDINGS>> name
        assertEquals(new JndiPermission("<<ALL BINDINGS>>", "*"), new JndiPermission("-", "*"));

        // check the root - name
        assertTrue(new JndiPermission("-", "*").implies(new JndiPermission("-", "*")));
        assertTrue(new JndiPermission("-", "*").implies(new JndiPermission("", "*")));
        assertTrue(new JndiPermission("-", "*").implies(new JndiPermission("foo", "*")));
        assertTrue(new JndiPermission("-", "*").implies(new JndiPermission("/foo", "*")));
        assertTrue(new JndiPermission("-", "*").implies(new JndiPermission("foo/", "*")));
        assertTrue(new JndiPermission("-", "*").implies(new JndiPermission("foo/bar/baz/zap", "*")));
        assertTrue(new JndiPermission("-", "*").implies(new JndiPermission("java:foo", "*")));

        // check the non-root - name
        assertTrue(new JndiPermission("/-", "*").implies(new JndiPermission("/-", "*")));
        assertTrue(new JndiPermission("/-", "*").implies(new JndiPermission("/", "*")));
        assertTrue(new JndiPermission("/-", "*").implies(new JndiPermission("//", "*")));
        assertTrue(new JndiPermission("/-", "*").implies(new JndiPermission("///", "*")));
        assertTrue(new JndiPermission("/-", "*").implies(new JndiPermission("/foo", "*")));
        assertTrue(new JndiPermission("/-", "*").implies(new JndiPermission("/foo", "*")));
        assertTrue(new JndiPermission("/-", "*").implies(new JndiPermission("/foo/", "*")));
        assertTrue(new JndiPermission("/-", "*").implies(new JndiPermission("/foo/bar/baz/zap", "*")));
        assertTrue(new JndiPermission("/-", "*").implies(new JndiPermission("java:/foo", "*")));

        assertTrue(new JndiPermission("foo/-", "*").implies(new JndiPermission("foo/-", "*")));
        assertTrue(new JndiPermission("foo/-", "*").implies(new JndiPermission("foo/foo", "*")));
        assertTrue(new JndiPermission("foo/-", "*").implies(new JndiPermission("foo/foo", "*")));
        assertTrue(new JndiPermission("foo/-", "*").implies(new JndiPermission("foo/foo/", "*")));
        assertTrue(new JndiPermission("foo/-", "*").implies(new JndiPermission("foo/foo/bar/baz/zap", "*")));
        assertTrue(new JndiPermission("foo/-", "*").implies(new JndiPermission("java:foo/foo", "*")));

        // check the * name
        assertTrue(new JndiPermission("*", "*").implies(new JndiPermission("", "*")));
        assertTrue(new JndiPermission("*", "*").implies(new JndiPermission("foo", "*")));
        assertFalse(new JndiPermission("*", "*").implies(new JndiPermission("foo/bar", "*")));
        assertFalse(new JndiPermission("*", "*").implies(new JndiPermission("foo/", "*")));
        assertFalse(new JndiPermission("*", "*").implies(new JndiPermission("/foo", "*")));
        assertTrue(new JndiPermission("*/*", "*").implies(new JndiPermission("/foo", "*")));
        assertTrue(new JndiPermission("/*", "*").implies(new JndiPermission("/foo", "*")));
        assertTrue(new JndiPermission("*/foo", "*").implies(new JndiPermission("/foo", "*")));

        // check java: support
        assertEquals(new JndiPermission("java:", "*"), new JndiPermission("", "*"));
    }
}

```

```

    assertEquals(new JndiPermission("java:/", "*"), new JndiPermission("/", "*"));
    assertEquals(new JndiPermission("java:-", "*"), new JndiPermission("-", "*"));
    assertEquals(new JndiPermission("java:*", "*"), new JndiPermission("*", "*"));
}

@Test
public void testActions() {
    assertEquals(new JndiPermission("foo", "*"), new JndiPermission("foo", "all"));
    assertEquals(new JndiPermission("foo", "*"), new JndiPermission("foo",
"lookup,bind,unbind,list,listBindings,createSubcontext,destroySubcontext,addNamingListener"));
    assertEquals(new JndiPermission("foo", "*"), new JndiPermission("foo",
"unbind,list,listBindings,createSubcontext,destroySubcontext,addNamingListener,lookup,bind,unbind"));

    assertTrue(new JndiPermission("foo", "*").implies(new JndiPermission("foo", "lookup")));
    assertTrue(new JndiPermission("foo", "").implies(new JndiPermission("foo", "")));
    assertTrue(new JndiPermission("foo", "*").implies(new JndiPermission("foo", "")));
    assertFalse(new JndiPermission("foo", "").implies(new JndiPermission("foo", "bind")));
    assertTrue(new JndiPermission("foo", "").withActions("bind").implies(new JndiPermission("foo", "bind")));
    assertFalse(new JndiPermission("foo", "unbind").withoutActions("unbind").implies(new JndiPermission("foo",
"unbind")));
}

@Test
public void testCollection() {
    final PermissionCollection permissionCollection = new JndiPermission("", "").newPermissionCollection();
    Enumeration<Permission> e;
    permissionCollection.add(new JndiPermission("foo/bar", "lookup,bind"));
    assertTrue(permissionCollection.implies(new JndiPermission("foo/bar", "lookup,bind")));
    assertFalse(permissionCollection.implies(new JndiPermission("foo/bar", "lookup,bind,unbind")));
    assertFalse(permissionCollection.implies(new JndiPermission("foo/bar", "unbind")));
    assertNotNull(e = permissionCollection.elements());
    assertTrue(e.hasMoreElements());
    assertEquals(new JndiPermission("foo/bar", "lookup,bind"), e.nextElement());
    assertFalse(e.hasMoreElements());
    permissionCollection.add(new JndiPermission("foo/bar", "unbind"));
    assertTrue(permissionCollection.implies(new JndiPermission("foo/bar", "lookup,bind")));
    assertTrue(permissionCollection.implies(new JndiPermission("foo/bar", "lookup,bind,unbind")));
    assertTrue(permissionCollection.implies(new JndiPermission("foo/bar", "unbind")));
    assertNotNull(e = permissionCollection.elements());
    assertTrue(e.hasMoreElements());
    assertEquals(new JndiPermission("foo/bar", "lookup,bind,unbind"), e.nextElement());
    assertFalse(e.hasMoreElements());
    permissionCollection.add(new JndiPermission("-", "lookup"));
    assertTrue(permissionCollection.implies(new JndiPermission("foo/bar", "lookup,bind")));
    assertTrue(permissionCollection.implies(new JndiPermission("foo/bar", "lookup,bind,unbind")));
    assertTrue(permissionCollection.implies(new JndiPermission("foo/bar", "unbind")));
    assertTrue(permissionCollection.implies(new JndiPermission("baz/zap", "lookup")));
    assertTrue(permissionCollection.implies(new JndiPermission("", "lookup")));
}

```



```

assertFalse(permissionCollection.implies(new JndiPermission("baz/zap", "lookup,bind,unbind")));
assertFalse(permissionCollection.implies(new JndiPermission("baz/zap", "unbind")));
assertNotNull(e = permissionCollection.elements());
assertTrue(e.hasMoreElements());
assertEquals(new JndiPermission("foo/bar", "lookup,bind,unbind"), e.nextElement());
assertTrue(e.hasMoreElements());
assertEquals(new JndiPermission("-", "lookup"), e.nextElement());
assertFalse(e.hasMoreElements());
permissionCollection.add(new JndiPermission("-", "bind,unbind"));
assertTrue(permissionCollection.implies(new JndiPermission("foo/bar", "lookup,bind")));
assertTrue(permissionCollection.implies(new JndiPermission("foo/bar", "lookup,bind,unbind")));
assertTrue(permissionCollection.implies(new JndiPermission("foo/bar", "unbind")));
assertTrue(permissionCollection.implies(new JndiPermission("baz/zap", "lookup")));
assertTrue(permissionCollection.implies(new JndiPermission("", "lookup")));
assertTrue(permissionCollection.implies(new JndiPermission("baz/zap", "lookup,bind,unbind")));
assertTrue(permissionCollection.implies(new JndiPermission("baz/zap", "unbind")));
assertNotNull(e = permissionCollection.elements());
assertTrue(e.hasMoreElements());
assertEquals(new JndiPermission("-", "lookup,bind,unbind"), e.nextElement());
assertFalse(e.hasMoreElements());
}

@Test
public void testSecurity() {
    assertEquals(new JndiPermission("-", Integer.MAX_VALUE).getActionBits(),
JndiPermission.ACTION_ALL);
    assertEquals(new JndiPermission("-", Integer.MAX_VALUE), new JndiPermission("-", "*"));
}

@Test
public void testSerialization() {
    final JndiPermission jndiPermission = new JndiPermission("foo/blap/-", "bind,lookup");
    assertEquals(jndiPermission, ((SerializedJndiPermission)jndiPermission.writeReplace()).readResolve());
}

@Test
public void testCollectionSecurity() {
    final PermissionCollection permissionCollection = new JndiPermission("", "").newPermissionCollection();
    permissionCollection.add(new JndiPermission("foo/bar", "unbind,unbind"));
    permissionCollection.setReadOnly();
    try {
        permissionCollection.add(new JndiPermission("fob/baz", "unbind,unbind"));
        fail("Expected exception");
    } catch (SecurityException ignored) {
    }
}

@Test

```

```

public void testCollectionSerialization() {
    final PermissionCollection permissionCollection = new JndiPermission("", "").newPermissionCollection();
    permissionCollection.add(new JndiPermission("foo/bar", "createSubcontext,unbind"));
    permissionCollection.add(new JndiPermission("foo", "addNamingListener"));
    permissionCollection.add(new JndiPermission("-", "lookup,unbind"));
    final PermissionCollection other = (PermissionCollection) ((SerializedJndiPermissionCollection)
((JndiPermissionCollection)permissionCollection).writeReplace()).readResolve();
    Enumeration<Permission> e;
    assertNotNull(e = other.elements());
    assertTrue(e.hasMoreElements());
    assertEquals(new JndiPermission("foo/bar", "createSubcontext,unbind"), e.nextElement());
    assertTrue(e.hasMoreElements());
    assertEquals(new JndiPermission("foo", "addNamingListener"), e.nextElement());
    assertTrue(e.hasMoreElements());
    assertEquals(new JndiPermission("-", "lookup,unbind"), e.nextElement());
    assertFalse(e.hasMoreElements());
}
}
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*/

package org.wildfly.naming.java.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Enumeration;
import java.util.concurrent.atomic.AtomicReference;

```

```

import org.jboss.as.naming.logging.NamingLogger;
import org.wildfly.common.Assert;

final class JndiPermissionCollection extends PermissionCollection {

    private static final long serialVersionUID = - 769684900128311150L;
    private static final JndiPermission[] NO_PERMISSIONS = new JndiPermission[0];

    private final AtomicReference<JndiPermission[]> permissions;

    JndiPermissionCollection() {
        permissions = new AtomicReference<>(NO_PERMISSIONS);
    }

    JndiPermissionCollection(JndiPermission[] permissions) {
        Assert.checkNotNullParam("permissions", permissions);
        this.permissions = new AtomicReference<>(permissions);
    }

    public void add(final Permission permission) {
        if (isReadOnly()) {
            throw NamingLogger.ROOT_LOGGER.cannotAddToReadOnlyPermissionCollection();
        }
        if (! (permission instanceof JndiPermission)) {
            throw NamingLogger.ROOT_LOGGER.invalidPermission(permission);
        }
        final AtomicReference<JndiPermission[]> permissions = this.permissions;
        JndiPermission jndiPermission = (JndiPermission) permission;
        if (jndiPermission.getActionBits() == 0) {
            // no operation
            return;
        }
        JndiPermission[] oldVal;
        ArrayList<JndiPermission> newVal;
        boolean added = false;
        do {
            oldVal = permissions.get();
            newVal = new ArrayList<>(oldVal.length + 1);
            // first, test if it's in the set, or combine with any other permission with the same actions
            for (final JndiPermission testPerm : oldVal) {
                if (testPerm.implies(jndiPermission)) {
                    // already in the set
                    return;
                } else if (jndiPermission.implies(testPerm)) {
                    // otherwise skip all other matches
                } else if (jndiPermission.getName().equals(testPerm.getName())) {
                    // the two .implies() would have caught this condition
                    assert jndiPermission.getActionBits() != testPerm.getActionBits();
                }
            }
            newVal.add(jndiPermission);
            added = true;
        } while (oldVal == null || ! oldVal.equals(newVal));
        permissions.set(newVal);
    }
}

```

```

        jndiPermission = jndiPermission.withActions(testPerm.getActionBits());
        // and skip it
    }
}
for (final JndiPermission testPerm : oldVal) {
    if (! jndiPermission.implies(testPerm)) {
        newVal.add(testPerm);
    }
}
newVal.add(jndiPermission);
} while (! permissions.compareAndSet(oldVal, newVal.toArray(NO_PERMISSIONS)));
}

```

```

public boolean implies(final Permission permission) {
    final JndiPermission[] jndiPermissions = permissions.get();
    for (JndiPermission jndiPermission : jndiPermissions) {
        if (jndiPermission.implies(permission)) {
            return true;
        }
    }
    return false;
}

```

```

public Enumeration<Permission> elements() {
    final JndiPermission[] jndiPermissions = permissions.get();
    return new Enumeration<Permission>() {
        int i;
        public boolean hasMoreElements() {
            return i < jndiPermissions.length;
        }

        public Permission nextElement() {
            return jndiPermissions[i++];
        }
    };
}

```

```

Object writeReplace() {
    return new SerializedJndiPermissionCollection(isReadOnly(), permissions.get());
}
}

```

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*/

```

```
package org.wildfly.naming.java.permission;
```

```
import java.io.Serializable;
```

```

class SerializedJndiPermissionCollection implements Serializable {

    private static final long serialVersionUID = 315106751231586701L;

    private final boolean readOnly;
    private final JndiPermission[] permissions;

    SerializedJndiPermissionCollection(final boolean readOnly, final JndiPermission[] permissions) {
        this.readOnly = readOnly;
        this.permissions = permissions;
    }

    Object readResolve() {
        final JndiPermissionCollection collection = new JndiPermissionCollection(permissions);
        if (readOnly) collection.setReadOnly();
        return collection;
    }
}

```

```

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 */

```
package org.wildfly.naming.java.permission;
```

```
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Iterator;
```

```
import org.jboss.as.naming.logging.NamingLogger;
import org.wildfly.common.Assert;
```

```
/**
```

```
* Permission to access an object within the "java:" JNDI namespace.
* <p>
* This permission does not span into bound nested contexts; such contexts may be governed by their own
permission scheme.
* <p>
* The { @code name } segment of the permission is a JNDI path whose segments are separated by { @code / }
characters. The
* name may be preceded with the string { @code java: } for compatibility with previous schemes. A name of
* { @code <<ALL BINDINGS>> } is translated to { @code - } for compatibility reasons.
*/
```

```
public final class JndiPermission extends Permission {
    private static final long serialVersionUID = 1272655825146515997L;
```

```
    private final int actionBits;
    private String actionString;
```

```
/**
```

```
* The bitwise encoding of the { @code bind } action.
```

```
*/
```

```
public static final int ACTION_BIND          = 0b000000001;
```

```
/**
```

```
* The bitwise encoding of the { @code rebind } action.
```

```
*/
```

```
public static final int ACTION_REBIND      = 0b000000010;
```

```
/**
```

```
* The bitwise encoding of the { @code unbind } action.
```

```
*/
```

```

public static final int ACTION_UNBIND          = 0b000000100;
/**
 * The bitwise encoding of the {@code lookup} action.
 */
public static final int ACTION_LOOKUP        = 0b000001000;
/**
 * The bitwise encoding of the {@code list} action.
 */
public static final int ACTION_LIST          = 0b000010000;
/**
 * The bitwise encoding of the {@code listBindings} action.
 */
public static final int ACTION_LIST_BINDINGS = 0b000100000;
/**
 * The bitwise encoding of the {@code createSubcontext} action.
 */
public static final int ACTION_CREATE_SUBCONTEXT = 0b001000000;
/**
 * The bitwise encoding of the {@code destroySubcontext} action.
 */
public static final int ACTION_DESTROY_SUBCONTEXT = 0b010000000;
/**
 * The bitwise encoding of the {@code addNamingListener} action.
 */
public static final int ACTION_ADD_NAMING_LISTENER = 0b100000000;
/**
 * The bitwise encoding of the {@code *} action. This value is the bitwise-OR of all of the other action bits.
 */
public static final int ACTION_ALL          = 0b111111111;

/**
 * Construct a new instance.
 *
 * @param name the path name (must not be {@code null})
 * @param actions the actions (must not be {@code null})
 */
public JndiPermission(final String name, final String actions) {
    this(name, parseActions(Assert.checkNotNullParam("actions", actions)));
}

/**
 * Construct a new instance using an action bitmask. If a bit in the mask falls outside of {@link #ACTION_ALL}, it
 * is stripped.
 *
 * @param name the path name (must not be {@code null})
 * @param actionBits the action bits
 */

```

```

public JndiPermission(final String name, final int actionBits) {
    super(canonicalize1(Assert.checkNotNullParam("name", name)));
    this.actionBits = actionBits & ACTION_ALL;
}

/**
 * Determine if this permission implies the other permission.
 *
 * @param permission the other permission
 * @return {@code true} if this permission implies the other, {@code false} if it does not or {@code permission}
is {@code null}
 */
public boolean implies(final Permission permission) {
    return permission instanceof JndiPermission && implies((JndiPermission) permission);
}

/**
 * Determine if this permission implies the other permission.
 *
 * @param permission the other permission
 * @return {@code true} if this permission implies the other, {@code false} if it does not or {@code permission}
is {@code null}
 */
public boolean implies(final JndiPermission permission) {
    return permission != null && ((actionBits & permission.actionBits) == permission.actionBits) &&
impliesPath(permission.getName());
}

/**
 * Determine if this permission implies the given {@code actions} on the given {@code name}.
 *
 * @param name the name (must not be {@code null})
 * @param actions the actions (must not be {@code null})
 * @return {@code true} if this permission implies the {@code actions} on the {@code name}, {@code false}
otherwise
 */
public boolean implies(final String name, final String actions) {
    return implies(name, parseActions(actions));
}

/**
 * Determine if this permission implies the given {@code actionsBits} on the given {@code name}.
 *
 * @param name the name (must not be {@code null})
 * @param actionBits the action bits
 * @return {@code true} if this permission implies the {@code actionBits} on the {@code name}, {@code false}
otherwise
 */

```



```

public boolean implies(final String name, final int actionBits) {
    Assert.checkNotNullParam("name", name);
    final int maskedBits = actionBits & ACTION_ALL;
    return (this.actionBits & maskedBits) == maskedBits && impliesPath(name);
}

/**
 * Determine whether this object is equal to another.
 *
 * @param other the other object
 * @return {@code true} if they are equal, {@code false} otherwise
 */
public boolean equals(Object other) {
    return other instanceof JndiPermission && equals((JndiPermission)other);
}

/**
 * Determine whether this object is equal to another.
 *
 * @param other the other object
 * @return {@code true} if they are equal, {@code false} otherwise
 */
public boolean equals(JndiPermission other) {
    return this == other || other != null && getName().equals(other.getName()) && actionBits == other.actionBits;
}

/**
 * Get the hash code of this permission.
 *
 * @return the hash code of this permission
 */
public int hashCode() {
    return actionBits * 23 + getName().hashCode();
}

/**
 * Get the actions string. The actions string will be a canonical version of the one passed in at construction.
 *
 * @return the actions string (not {@code null})
 */
public String getActions() {
    final String actionString = this.actionString;
    if (actionString != null) {
        return actionString;
    }
    int actionBits = this.actionBits;
    if (actionBits == ACTION_ALL) {
        return this.actionString = "*";
    }
}

```

```

    }
    int m = Integer.lowestOneBit(actionBits);
    if (m != 0) {
        StringBuilder b = new StringBuilder();
        b.append(getAction(m));
        actionBits &= ~m;
        while (actionBits != 0) {
            m = Integer.lowestOneBit(actionBits);
            b.append(',').append(getAction(m));
            actionBits &= ~m;
        }
        return this.actionString = b.toString();
    } else {
        return this.actionString = "";
    }
}

/**
 * Get the action bits.
 *
 * @return the action bits
 */
public int getActionBits() {
    return actionBits;
}

/**
 * Return a permission which is equal to this one except with its actions reset to {@code actionBits}. If the given
 * {@code actionBits} equals the current bits of this permission, then this permission instance is returned;
otherwise
 * a new permission is constructed. Any action bits which fall outside of {@link #ACTION_ALL} are silently
ignored.
 *
 * @param actionBits the action bits to use
 * @return a permission with only the given action bits (not {@code null})
 */
public JndiPermission withNewActions(int actionBits) {
    actionBits &= ACTION_ALL;
    if (actionBits == this.actionBits) {
        return this;
    } else {
        return new JndiPermission(getName(), actionBits);
    }
}

/**
 * Return a permission which is equal to this one except with its actions reset to {@code actions}. If the given
 * {@code actions} equals the current actions of this permission, then this permission instance is returned;

```

```

otherwise
    * a new permission is constructed.
    *
    * @param actions the actions to use (must not be {@code null})
    * @return a permission with only the given action bits (not {@code null})
    */
public JndiPermission withNewActions(String actions) {
    return withNewActions(parseActions(Assert.checkNotNullParam("actions", actions)));
}

/**
 * Return a permission which is equal to this one except with additional action bits. If the given {@code
actionBits}
 * do not add any new actions, then this permission instance is returned; otherwise a new permission is
constructed.
 * Any action bits which fall outside of {@link #ACTION_ALL} are silently ignored.
 *
 * @param actionBits the action bits to add
 * @return a permission with the union of permissions from this instance and the given bits (not {@code null})
 */
public JndiPermission withActions(int actionBits) {
    return withNewActions(actionBits & ACTION_ALL | this.actionBits);
}

/**
 * Return a permission which is equal to this one except with additional actions. If the given {@code actionBits}
 * do not add any new actions, then this permission instance is returned; otherwise a new permission is
constructed.
 *
 * @param actions the actions to add (must not be {@code null})
 * @return a permission with the union of permissions from this instance and the given bits (not {@code null})
 */
public JndiPermission withActions(String actions) {
    return withActions(parseActions(Assert.checkNotNullParam("actions", actions)));
}

/**
 * Return a permission which is equal to this one except without some action bits. If the given {@code
actionBits}
 * do not remove any actions, then this permission instance is returned; otherwise a new permission is constructed.
 * Any action bits which fall outside of {@link #ACTION_ALL} are silently ignored.
 *
 * @param actionBits the action bits to remove
 * @return a permission with the given bits subtracted from this instance (not {@code null})
 */
public JndiPermission withoutActions(int actionBits) {
    return withNewActions(this.actionBits & ~(actionBits & ACTION_ALL));
}

```

```

/**
 * Return a permission which is equal to this one except without some actions. If the given {@code actions}
 * do not remove any actions, then this permission instance is returned; otherwise a new permission is constructed.
 *
 * @param actions the actions to remove (must not be {@code null})
 * @return a permission with the given bits subtracted from this instance (not {@code null})
 */
public JndiPermission withoutActions(String actions) {
    return withoutActions(parseActions(Assert.checkNotNullParam("actions", actions)));
}

/**
 * Construct a new type-specific permission collection.
 *
 * @return the new permission collection instance (not {@code null})
 */
public PermissionCollection newPermissionCollection() {
    return new JndiPermissionCollection();
}

// semi-private

Object writeReplace() {
    return new SerializedJndiPermission(getName(), getActions());
}

boolean impliesPath(final String yourName) {
    return yourName.startsWith("java:") ? impliesPath0(yourName.substring(5)) : impliesPath0(yourName);
}

// private

private boolean impliesPath0(final String yourName) {
    // segment-by-segment comparison
    final String myName = getName();
    final Iterator<String> myIter = JndiPermissionNameParser.nameIterator(myName);
    final Iterator<String> yourIter = JndiPermissionNameParser.nameIterator(yourName);
    // even if it's just "", there is always a first element
    assert myIter.hasNext() && yourIter.hasNext();
    String myNext;
    String yourNext;
    for (;;) {
        myNext = myIter.next();
        yourNext = yourIter.next();
        if (myNext.equals("-")) {
            // "-" implies everything including ""
            return true;
        }
    }
}

```

```

    }
    if (! myNext.equals("*") && ! myNext.equals(yourNext)) {
        // "foo/bar" does not imply "foo/baz"
        return false;
    }
    if (myIter.hasNext()) {
        if (! yourIter.hasNext()) {
            // "foo/bar" does not imply "foo"
            return false;
        }
    } else {
        // if neither has next, "foo/bar" implies "foo/bar", else "foo" does not imply "foo/bar"
        return ! yourIter.hasNext();
    }
}

private static String canonicalize1(String name) {
    Assert.checkNotNullParam("name", name);
    return name.equalsIgnoreCase("<<ALL BINDINGS>>") ? "-" : canonicalize2(name);
}

private static String canonicalize2(String name) {
    return name.startsWith("java:") ? name.substring(5) : name;
}

private static int parseActions(final String actionsString) {
    // TODO: switch to Elytron utility methods to do this
    int actions = 0;
    int pos = 0;
    int idx = actionsString.indexOf(',');
    for (;;) {
        String str;
        if (idx == -1) {
            str = actionsString.substring(pos, actionsString.length()).trim();
            if (! str.isEmpty()) actions |= parseAction(str);
            return actions;
        } else {
            str = actionsString.substring(pos, idx).trim();
            pos = idx + 1;
            if (! str.isEmpty()) actions |= parseAction(str);
            idx = actionsString.indexOf(',', pos);
        }
    }
}

private static int parseAction(final String str) {
    switch (str) {

```

```

    case "*":
    case "all": return ACTION_ALL;
    case "bind": return ACTION_BIND;
    case "rebind": return ACTION_REBIND;
    case "unbind": return ACTION_UNBIND;
    case "lookup": return ACTION_LOOKUP;
    case "list": return ACTION_LIST;
    case "listBindings": return ACTION_LIST_BINDINGS;
    case "createSubcontext": return ACTION_CREATE_SUBCONTEXT;
    case "destroySubcontext": return ACTION_DESTROY_SUBCONTEXT;
    case "addNamingListener": return ACTION_ADD_NAMING_LISTENER;
    default: {
        throw NamingLogger.ROOT_LOGGER.invalidPermissionAction(str);
    }
}
}
}

```

```

private String getAction(final int bit) {
    switch (bit) {
        case ACTION_BIND: return "bind";
        case ACTION_REBIND: return "rebind";
        case ACTION_UNBIND: return "unbind";
        case ACTION_LOOKUP: return "lookup";
        case ACTION_LIST: return "list";
        case ACTION_LIST_BINDINGS: return "listBindings";
        case ACTION_CREATE_SUBCONTEXT: return "createSubcontext";
        case ACTION_DESTROY_SUBCONTEXT: return "destroySubcontext";
        case ACTION_ADD_NAMING_LISTENER: return "addNamingListener";
        default: throw Assert.impossibleSwitchCase(bit);
    }
}
}
}

```

/*

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```
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* 02110-1301 USA, or see the FSF site: http://www.fsf.org.
*/
```

```
package org.wildfly.naming.java.permission;
```

```
import java.io.Serializable;
```

```
final class SerializedJndiPermission implements Serializable {
    private static final long serialVersionUID = - 7602123815143424767L;
```

```
    private final String name;
    private final String actions;
```

```
    SerializedJndiPermission(final String name, final String actions) {
        this.name = name;
        this.actions = actions;
    }
```

```
    Object readResolve() {
        return new JndiPermission(name, actions);
    }
}
```

```
/*
```

```
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* Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA
* 02110-1301 USA, or see the FSF site: http://www.fsf.org.
*/
```

```
package org.wildfly.naming.java.permission;
```

```

import java.util.Iterator;
import java.util.NoSuchElementException;

import org.jboss.as.naming.logging.NamingLogger;
import org.wildfly.common.iteration.CodePointIterator;

final class JndiPermissionNameParser {
    private JndiPermissionNameParser() {
    }

    static Iterator<String> nameIterator(final String string) {
        return new ParsingIterator(string);
    }

    static Iterator<String> segmentsIterator(String[] segments) {
        return new SegmentsIterator(segments);
    }

    static String[] toArray(Iterator<String> iter) {
        return toArray(iter, 0);
    }

    private static String[] toArray(final Iterator<String> iter, final int size) {
        if (iter.hasNext()) {
            String next = iter.next();
            String[] array = toArray(iter, size + 1);
            array[size] = next;
            return array;
        } else {
            return new String[size];
        }
    }

    static class SegmentsIterator implements Iterator<String> {
        private final String[] segments;
        private int idx;

        SegmentsIterator(final String[] segments) {
            this.segments = segments;
        }

        public boolean hasNext() {
            return idx < segments.length;
        }

        public String next() {
            return segments[idx ++];
        }
    }
}

```



```

    }

    String[] getSegments() {
        return segments;
    }
}

static class ParsingIterator implements Iterator<String> {
    private final CodePointIterator cpi;
    private final StringBuilder b;
    private final String string;
    private boolean hasNext = true;

    ParsingIterator(final String string) {
        this.string = string;
        cpi = CodePointIterator.ofString(string);
        b = new StringBuilder();
    }

    public boolean hasNext() {
        return hasNext;
    }

    public String next() {
        if (!hasNext()) throw new NoSuchElementException();
        final StringBuilder b = this.b;
        final CodePointIterator cpi = this.cpi;
        int cp;
        while (cpi.hasNext()) {
            cp = cpi.next();
            if (cp == '\\') {
                // skip the next code point always
                if (!cpi.hasNext()) {
                    throw NamingLogger.ROOT_LOGGER.invalidJndiName(string);
                }
                b.appendCodePoint(cpi.next());
            } else if (cp == "" || cp == "\") {
                int q = cp;
                if (!cpi.hasNext()) {
                    throw NamingLogger.ROOT_LOGGER.invalidJndiName(string);
                }
                for (;;) {
                    cp = cpi.next();
                    if (cp == '\\') {
                        // skip the next code point always
                        if (!cpi.hasNext()) {
                            throw NamingLogger.ROOT_LOGGER.invalidJndiName(string);
                        }
                    }
                }
            }
        }
    }
}

```

```

        b.appendCodePoint(cpi.next());
    } else if (cp == q) {
        break;
    } else {
        b.appendCodePoint(cp);
    }
    if (! cpi.hasNext()) {
        throw NamingLogger.ROOT_LOGGER.invalidJndiName(string);
    }
}
} else if (cp == '/') {
    final String s = b.toString();
    b.setLength(0);
    return s;
} else {
    b.appendCodePoint(cp);
}
}
final String s = b.toString();
b.setLength(0);
hasNext = false;
return s;
}
}
}

```

```
<?xml version="1.0" ?>
```

```

<package-spec xmlns="urn:jboss:galleon:package:1.0" name="docs.licenses.merge">
  <dependencies>
    <!--
      <origin name="org.wildfly.core:wildfly-core-galleon-pack">
        <package name="docs.licenses.merge"/>
      </origin>
    -->
    <package name="docs.licenses"/>
  </dependencies>
</package-spec>

```

```
<?xml version="1.0" ?>
```

```

<tasks xmlns="urn:wildfly:wildfly-feature-pack-tasks:2.0">
  <xml-merge basedir="docs/licenses" output="docs/licenses/licenses.xml">
    <filter pattern="*-licenses.xml" include="true"/>
  </xml-merge>
  <transform stylesheet="docs/licenses/licenses.xsl" src="docs/licenses/licenses.xml"
output="docs/licenses/licenses.html" phase="FINALIZING"/>
</tasks>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="xml" indent="yes"/>

```

```

<xsl:param name="fileList"/>
<xsl:param name="fileSeparator"/>

<xsl:template match="/">
  <xsl:call-template name="startDocument"/>
  <xsl:call-template name="tokenizeString">
    <xsl:with-param name="list" select="$fileList"/>
    <xsl:with-param name="delimiter" select="","/>
  </xsl:call-template>
  <xsl:call-template name="endDocument"/>
</xsl:template>

<xsl:template name="tokenizeString">
  <!--passed template parameter -->
  <xsl:param name="list"/>
  <xsl:param name="delimiter"/>
  <xsl:choose>
    <xsl:when test="contains($list, $delimiter)">
      <xsl:call-template name="processFile">
        <!-- get everything in front of the first delimiter -->
        <xsl:with-param name="fileName" select="substring-before($list,$delimiter)"/>
      </xsl:call-template>
      <xsl:call-template name="tokenizeString">
        <!-- store anything left in another variable -->
        <xsl:with-param name="list" select="substring-after($list,$delimiter)"/>
        <xsl:with-param name="delimiter" select="$delimiter"/>
      </xsl:call-template>
    </xsl:when>
    <xsl:otherwise>
      <xsl:choose>
        <xsl:when test="$list = "">
          <xsl:text/>
        </xsl:when>
        <xsl:otherwise>
          <xsl:call-template name="processFile">
            <!-- get everything in front of the first delimiter -->
            <xsl:with-param name="fileName" select="$list"/>
          </xsl:call-template>
        </xsl:otherwise>
      </xsl:choose>
    </xsl:otherwise>
  </xsl:choose>
</xsl:template>

<xsl:template name="substring-after-last">
  <xsl:param name="string" />
  <xsl:param name="delimiter" />
  <xsl:choose>

```

```

    <xsl:when test="contains($string, $delimiter)">
      <xsl:call-template name="substring-after-last">
        <xsl:with-param name="string" select="substring-after($string, $delimiter)" />
        <xsl:with-param name="delimiter" select="$delimiter" />
      </xsl:call-template>
    </xsl:when>
    <xsl:otherwise><xsl:value-of select="$string" /></xsl:otherwise>
  </xsl:choose>
</xsl:template>

<!-- FILE PROCESSING -->

<xsl:template name="startDocument">
  <xsl:text disable-output-escaping="no">
</xsl:text>
  <xsl:text disable-output-escaping="yes"><licenseSummary></xsl:text>
  <xsl:text disable-output-escaping="no">
</xsl:text>
  <xsl:text disable-output-escaping="yes"><dependencies></xsl:text>
</xsl:template>

<xsl:template name="endDocument">
  <xsl:text disable-output-escaping="no">
</xsl:text>
  <xsl:text disable-output-escaping="yes"></dependencies></xsl:text>
  <xsl:text disable-output-escaping="no">
</xsl:text>
  <xsl:text disable-output-escaping="yes"></licenseSummary></xsl:text>
</xsl:template>

<xsl:template name="processFile">
  <xsl:param name="fileName"/>
  <xsl:for-each select="document($fileName)/licenseSummary/dependencies/*">
    <xsl:text disable-output-escaping="no">
</xsl:text>
    <xsl:copy>
      <xsl:apply-templates select="@* | node()"/><xsl:text disable-output-escaping="no">
</xsl:text><source><xsl:call-template name="substring-after-last">
      <xsl:with-param name="string" select="$fileName"/>
      <xsl:with-param name="delimiter" select="$fileSeparator"/>
    </xsl:call-template></source><xsl:text disable-output-escaping="no">
</xsl:text>
    </xsl:copy>
  </xsl:for-each>
</xsl:template>

<xsl:template match="@* | node()">
  <xsl:copy>

```

```

        <xsl:apply-templates select="@* | node()"/>
    </xsl:copy>
</xsl:template>

</xsl:stylesheet>
<?xml version="1.0" ?>

<tasks xmlns="urn:wildfly:wildfly-feature-pack-tasks:2.0">
    <delete path="docs/licenses/licenses.html"/>
    <transform stylesheet="docs/licenses/licenses.xsl" src="docs/licenses/licenses.xml"
output="docs/licenses/licenses.html" phase="FINALIZING"/>
</tasks>
<?xml version="1.0" ?>

<tasks xmlns="urn:wildfly:wildfly-feature-pack-tasks:2.0">
    <copy-path src="docs/licenses/licenses.xsl" relative-to="content" target="docs/licenses/full-licenses.xsl"/>
    <transform stylesheet="docs/licenses/full-licenses.xsl" src="docs/licenses/full-feature-pack-licenses.xml"
output="docs/licenses/full-feature-pack-licenses.html" feature-pack-properties="true"/>
    <delete path="docs/licenses/full-licenses.xsl"/>
</tasks>
<?xml version="1.0" encoding="utf-8"?>
<!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"
    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
    xmlns:owl="http://www.w3.org/2002/07/owl#"
    xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
    xmlns:dc="http://purl.org/dc/terms/"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    xmlns:spdx="http://spdx.org/rdf/terms#">

<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<link rel="shortcut icon" href="sites/all/themes/cpstandard/favicon.ico" type="image/vnd.microsoft.icon" />

<title>BSD 3-Clause No Nuclear License | Software Package Data Exchange (SPDX)</title>

<link rel="shortcut icon" href="sites/all/themes/cpstandard/favicon.ico" type="image/vnd.microsoft.icon" />
<link type="text/css" rel="stylesheet" media="all" href="sites/all/themes/cpstandard/css/style.css" />
<link type="text/css" rel="stylesheet" media="all" href="sites/all/themes/cpstandard/css/colors.css" />
<link href="//netdna.bootstrapcdn.com/font-awesome/4.0.3/css/font-awesome.css" rel="stylesheet" />
<!-- GOOGLE FONTS -->
<link
href="//fonts.googleapis.com/css?family=Roboto:400,400italic,300,300italic,100italic,100,500,500italic,700,700itali
c,900,900italic" rel="stylesheet" type="text/css" />

<style type="text/css">

```

```
#page {
  color: #58595b;
}

#header {
  border-bottom: 3px solid #4597cb;
  padding-bottom: 50px;
}

.breadcrumb {
  margin-top: 25px;
}

#content-header h1 {
  color: #58595b;
}

#page h2, h3, h4, h5 {
  color: #4597cb;
}

#page h1 {
  font-size: 2em;
}

#page h2 {
  font-size: 1.5em;
}

#page p {
  color: #58595b;
}

#page th {
  color: #58595b;
}

a, a:visited, a:hover {
  color: #4597cb;
}

#footer-copyright {
  margin-top: 25px;
}

.replacable-license-text {
  color: #CC0000;
}
```

```

.optional-license-text {
color: #0000cc;
}

</style>

<script type="text/javascript">

var _gaq = _gaq || [];
_gaq.push(['_setAccount', 'UA-3676394-2']);
_gaq.push(['_trackPageview']);

(function() {
var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
})();

</script>

</head>

<body typeof="spdx:License">

<div id="If-header" class="collaborative-projects">
<div class="gray-diagonal">
<div class="container">
<a id="collaborative-projects-logo" href="http://collabprojects.linuxfoundation.org">Linux Foundation
Collaborative Projects</a>
</div>
</div>
</div>

<div id="header">
<div id="header-inner">
<a href="/" title="Home" rel="home" id="logo">

</a>

<div id="name-and-slogan">
<div id="site-name">
<h1><a href="/" title="Home" rel="home">Software Package Data Exchange (SPDX)</a></h1>
</div>
</div>

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

```

```

<div id="highlighted">
  <div class="region region-highlighted">
    </div>
  </div>

<div id="page" class="page">

  <div class="breadcrumb"><a href="/">Home</a> <a href="/licenses">Licenses</a></div>

  <h1 property="dc:title">BSD 3-Clause No Nuclear License</h1>
  <div style="display:none;"><code property="spdx:deprecated">>false</code></div>
  <h2>Full name</h2>
  <p style="margin-left: 20px;"><code property="spdx:name">BSD 3-Clause No Nuclear License</code></p>

  <h2>Short identifier</h2>
  <p style="margin-left: 20px;"><code property="spdx:licenseId">BSD-3-Clause-No-Nuclear-
License</code></p>

  <h2>Other web pages for this license</h2>
  <div style="margin-left: 20px;">
    <ul>
      <li><a href="http://download.oracle.com/otn-
pub/java/licenses/bsd.txt?AuthParam=1467140197_43d516ce1776bd08a58235a7785be1cc"
rel="rdfs:seeAlso">http://download.oracle.com/otn-
pub/java/licenses/bsd.txt?AuthParam=1467140197_43d516ce1776bd08a58235a7785be1cc</a></li>
    </ul>
  </div>

  <div property="spdx:isOsiApproved" style="display: none;">>false</div>

  <h2 id="notes">Notes</h2>
  <p style="margin-left: 20px;">This license has an older Sun copyright notice and is the same license as BSD-
3-Clause-No-Nuclear-Warranty, except it specifies that that software is "not licensed" for use in a nuclear facility, as
opposed to a disclaimer for such use.</p>

  <h2 id="licenseText">Text</h2>

  <div property="spdx:licenseText" class="license-text">

  <br/>
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</div>

<h2 id="licenseHeader">Standard License Header</h2>

<div property="spdx:standardLicenseHeader" class="license-text">

<p style="font-style: italic">There is no standard license header for the license</p>

</div>

</div> <!-- /page -->

<div class="collaborative-projects">

<div class="gray-diagonal">

<div class="container">

<div id="footer-copyright">

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</div>

</div>

</div>

<div id="top-page-link">

<i class="fa fa-arrow-circle-up"></i>top of page

</div>

```

</body>
</html>
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<html>
<head>
<title>Creative Commons Legal Code</title>
<link rel="stylesheet" type="text/css" href="/includes/deeds.css" />
<style type="text/css">

li {
margin-bottom:12px;
}

</style>
</head>
<body>
<p align="center"><a href="/">Creative Commons</a></p>
<div id="deed">
<div align="center"></div>
<p align="center"><b>Attribution 2.5</b></p>
<div class="text">
<div class="fineprint" style="background:none;">
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<li>
<strong>"Derivative Work"</strong> means a work based upon the Work or upon the Work and other pre-existing

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</div>

</div>

<div align="right" style="margin-bottom: 10px;">« Back to Commons Deed</div>

</div>

</body></html>

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Partially supported by University of San Francisco & jGuru.com

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The primary ANTLR guy:

Terence Parr

parrt@cs.usfca.edu

parrt@antlr.org

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="utf-8" />
```

```
<meta name="generator" content="pandoc" />
```

```
<title>Mozilla Public License, version 2.0</title>
```

```
<!--[if lt IE 9]>
```

```
<script src="/media/js/libs/html5shiv.d580a4cd1cb4.js"></script>
```

```
<![endif]-->
```

```
<link href="/media/css/mpl-2-0-bundle.e529fc4408b6.css" rel="stylesheet" type="text/css" />
```

```
</head>
```

```
<body>
```

```
<h1 id="mozilla-public-license-version-2.0">Mozilla Public License<br>Version 2.0</h1>
```

```
<h2 id="definitions">1. Definitions</h2>
```

```
<dl>
```

```
<dt>1.1. Contributor</dt>
```

```
<dd><p>means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.</p>
```

```
</dd>
```

```
<dt>1.2. Contributor Version</dt>
```

```
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```

```
</dd>
```

```
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```

```
<dd><p>means Covered Software of a particular Contributor.</p>
```

```
</dd>
```

```
<dt>1.4. Covered Software</dt>
```

```
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```

```
</dd>
```

```
<dt>1.5. Incompatible With Secondary Licenses</dt>
```

```
<dd><p>means</p>
```

<ol type="a">

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

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

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

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

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

  <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
  <xsl:param name="version"/>
  <xsl:param name="product.release.name"/>
  <xsl:variable name="lowercase" select="abcdefghijklmnopqrstuvwxy" />
  <xsl:variable name="uppercase" select="ABCDEFGHIJKLMNOPQRSTUVWXYZ!" />

  <xsl:template match=""/>
```

```

<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
    <link rel="stylesheet" type="text/css" href="licenses.css"/>
  </head>
  <body>
    <h2><xsl:value-of select="$product.release.name"/><xsl:text> </xsl:text><xsl:value-of select="substring-
before($version, '-')"/> - Feature Pack</h2>
    <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
    <!-- Read matching templates -->
    <table>
      <tr>
        <th>Package Group</th>
        <th>Package Artifact</th>
        <th>Package Version</th>
        <th>Remote Licenses</th>
        <th>Local Licenses</th>
      </tr>
      <xsl:for-each select="licenseSummary/dependencies/dependency">
        <xsl:sort select="concat(groupId, '.', artifactId)"/>
        <tr>
          <td><xsl:value-of select="groupId"/></td>
          <td><xsl:value-of select="artifactId"/></td>
          <td><xsl:value-of select="version"/></td>
          <td>
            <xsl:for-each select="licenses/license">
              <xsl:choose>
                <xsl:when test="name = 'Public Domain'">
                  <xsl:value-of select="name"/><br/>
                </xsl:when>
                <xsl:otherwise>
                  <a href="{ ./url }"><xsl:value-of select="name"/></a><br/>
                </xsl:otherwise>
              </xsl:choose>
            </xsl:for-each>
          </td>
          <td>
            <xsl:for-each select="licenses/license">
              <xsl:variable name="filename">
                <xsl:call-template name="remap-local-filename">
                  <xsl:with-param name="name" select="name" />
                </xsl:call-template>
              </xsl:variable>
              <a href="{ $filename }"><xsl:value-of select="$filename"/></a><br/>
            </xsl:for-each>
          </td>
        </tr>
      </xsl:for-each>
    </table>

```

```

        </xsl:for-each>
    </table>
</body>
</html>
</xsl:template>

<xsl:template name="remap-local-filename">
    <xsl:param name="name"/>
    <xsl:choose>
        <xsl:when test="$name = 'BSD 3-Clause "New" or "Revised" License'">
            <xsl:text>bsd 3-clause new or revised license.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'BSD 3-Clause No Nuclear License'">
            <xsl:text>bsd 3-clause no nuclear license.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'Creative Commons Attribution 2.5'">
            <xsl:text>creative commons attribution 2.5.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'Creative Commons Zero v1.0 Universal'">
            <xsl:text>creative commons zero v1.0 universal.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'GNU Lesser General Public License v3.0 or later'">
            <xsl:text>gnu lesser general public license v3.0 or later.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'Mozilla Public License 2.0'">
            <xsl:text>mozilla public license 2.0.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'Plexus Classworlds License'">
            <xsl:text>plexus classworlds license.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'The JSoup MIT License'">
            <xsl:text>the jsoup mit license.html</xsl:text>
        </xsl:when>
        <xsl:otherwise>
            <xsl:value-of select="concat(translate($name, $uppercase, $lowercase), '.txt')"/>
        </xsl:otherwise>
    </xsl:choose>
</xsl:template>
</xsl:stylesheet>
<!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" xml:lang="en" lang="en" dir="ltr">
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
    <meta name="generator" content="MediaWiki 1.19.24" />
    <link rel="shortcut icon" href="/favicon.ico" />
    <link rel="search" type="application/opensearchdescription+xml" href="/w/opensearch_desc.php"
title="FedoraProject (en)" />

```

```

<link rel="EditURI" type="application/rsd+xml" href="https://fedoraproject.org/w/api.php?action=rsd" />
<link rel="copyright" href="/wiki/Legal:Main" />
<link rel="alternate" type="application/atom+xml" title="FedoraProject Atom feed"
href="/w/index.php?title=Special:RecentChanges&feed=atom" /> <title>Licensing/Plexus Classworlds License -
FedoraProject</title>
<link rel="stylesheet"
href="https://fedoraproject.org/w/load.php?debug=false&lang=en&modules=mediawiki.legacy.commonPrint%2Csh
ared&only=styles&skin=fedora&*" />
<meta name="ResourceLoaderDynamicStyles" content="" />
<link rel="stylesheet"
href="https://fedoraproject.org/w/load.php?debug=false&lang=en&modules=site&only=styles&skin=fedora&*" />
<style>a:lang(ar),a:lang(ckb),a:lang(fa),a:lang(kk-arab),a:lang(mzn),a:lang(ps),a:lang(ur){text-
decoration:none}a.new,#quickbar a.new{color:#ba0000}

/* cache key: fpo-mediawiki-en_.resourceloader:filter:minify-css:7:c88e2bcd56513749bec09a7e29cb3ffa */</style>

<link rel="stylesheet" type="text/css" media="all" href="/static/css/fedora.css" />
<link rel="stylesheet" type="text/css" media="print" href="/static/css/print.css" />

<style type="text/css" media="screen,projection">/*!<[CDATA[*] @import "/w/skins/fedora/main.css?273";
/*]>*/</style>
<link rel="stylesheet" type="text/css" media="print" href="/w/skins/common/commonPrint.css?273" />
<link rel="stylesheet" type="text/css" media="handheld" href="/w/skins/fedora/handheld.css?273" />
<!--[if lt IE 5.5000]><style type="text/css">@import "/w/skins/fedora/IE50Fixes.css?273";</style><![endif-->
<!--[if IE 5.5000]><style type="text/css">@import "/w/skins/fedora/IE55Fixes.css?273";</style><![endif-->
<!--[if IE 6]><style type="text/css">@import "/w/skins/fedora/IE60Fixes.css?273";</style><![endif-->
<!--[if IE 7]><style type="text/css">@import "/w/skins/fedora/IE70Fixes.css?273";</style><![endif-->
<!--[if lt IE 7]><script type="text/javascript" src="/w/skins/common/IEFixes.js?273"></script>
<meta http-equiv="imagetoolbar" content="no" /><![endif-->

<script>if(window.mw){
mw.config.set({"wgCanonicalNamespace":"","wgCanonicalSpecialPageName":false,"wgNamespaceNumber":0,"w
gPageName":"Licensing/Plexus_Classworlds_License","wgTitle":"Licensing/Plexus Classworlds
License","wgCurRevisionId":101686,"wgArticleId":26521,"wgIsArticle":true,"wgAction":"view","wgUserName":n
ull,"wgUserGroups":["*"],"wgCategories":[],"wgBreakFrames":false,"wgPageContentLanguage":"en","wgSeparato
rTransformTable":["",""],"wgDigitTransformTable":["",""],"wgRelevantPageName":"Licensing/Plexus_Classworld
s_License","wgRestrictionEdit":[],"wgRestrictionMove":[]});
}</script>
<!-- Head Scripts -->
<script
src="https://fedoraproject.org/w/load.php?debug=false&lang=en&modules=startup&only=scripts&skin=fedora&*"
></script>
<script>if(window.mw){
mw.config.set({"wgCanonicalNamespace":"","wgCanonicalSpecialPageName":false,"wgNamespaceNumber":0,"w
gPageName":"Licensing/Plexus_Classworlds_License","wgTitle":"Licensing/Plexus Classworlds
License","wgCurRevisionId":101686,"wgArticleId":26521,"wgIsArticle":true,"wgAction":"view","wgUserName":n
ull,"wgUserGroups":["*"],"wgCategories":[],"wgBreakFrames":false,"wgPageContentLanguage":"en","wgSeparato
rTransformTable":["",""],"wgDigitTransformTable":["",""],"wgRelevantPageName":"Licensing/Plexus_Classworld

```

```

s_License","wgRestrictionEdit":[],"wgRestrictionMove":[]});
}</script><script>if(window.mw){
mw.loader.implement("user.options",function($){mw.user.options.set({"ccmeonemails":0,"cols":80,"date":"default",
,"diffonly":0,"disablemail":0,"disablesuggest":0,"editfont":"default","editondblclick":0,"editsection":1,"editsectiono
nrightclick":0,"enotifminoredits":0,"enotifrevealaddr":0,"enotifusertalkpages":1,"enotifwatchlistpages":0,"extendwa
tchlist":0,"externaldiff":0,"externaleditor":0,"fancysig":0,"forceeditsummary":0,"gender":"unknown","hideminor":0,
"hidepatrolled":0,"highlightbroken":1,"imagesize":2,"justify":0,"math":1,"minordefault":0,"newpageshidepatrolled":
0,"nocache":0,"noconvertlink":0,"norollbackdiff":0,"numberheadings":0,"previewonfirst":0,"previewontop":1,"quic
kbar":5,"rcdays":7,"rclimit":50,"rememberpassword":0,"rows":25,"searchlimit":20,"showhiddencats":0,"showjumpi
nks":1,"shownumberswatching":1,"showtoc":1,"showtoolbar":1,"skin":"fedora","stubthreshold":0,"thumbsize":2,"u
nderline":2,"uselivepreview":0,"usenewrc":0,"watchcreations":0,"watchdefault":0,"watchdeletion":0,
"watchlistdays":3,"watchlisthideanons":0,"watchlisthidebots":0,"watchlisthideliu":0,"watchlisthideminor":0,"watchli
sthideown":0,"watchlisthidepatrolled":0,"watchmoves":0,"wllimit":250,"variant":"en","language":"en","searchNs0":
true,"searchNs1":false,"searchNs2":false,"searchNs3":false,"searchNs4":true,"searchNs5":false,"searchNs6":true,"se
archNs7":false,"searchNs8":false,"searchNs9":false,"searchNs10":false,"searchNs11":false,"searchNs12":true,"searc
hNs13":false,"searchNs14":true,"searchNs15":false,"searchNs100":false,"searchNs101":false,"searchNs102":false,"
searchNs103":false,"searchNs104":false,"searchNs105":false,"searchNs106":true,"searchNs107":false,"searchNs10
8":true,"searchNs109":false,"searchNs110":true,"searchNs111":false,"searchNs112":true,"searchNs113":false,"searc
hNs114":true,"searchNs115":false,"searchNs116":true,"searchNs117":false});;},{},{});mw.loader.implement("user.
tokens",function($){mw.user.tokens.set({"editToken":"+\\","watchToken":false});;},{},{});

/* cache key: fpo-mediawiki-en_:resourceloader:filter:minify-js:7:2e839801c875f3062717112bdc5ea3e0 */
}</script>
<script>if(window.mw){
mw.loader.load(["mediawiki.page.startup","mediawiki.legacy.wikibits","mediawiki.legacy.ajax"]);
}</script> <script type="text/javascript" src="/w/skins/common/wikibits.js?273"><!-- wikibits js --></script>
</head>
<body class="mediawiki ltr ns-0 ns-subject page-Licensing_Plexus_Classworlds_License">
<div id="wrapper">
<div id="head">
<h1><a href="/wiki/Fedora_Project_Wiki" title="Visit the main page [z]" accesskey="z" >Fedora</a></h1>
<div id="p-personal">
<h5>Personal tools</h5>
<ul>
<li id="pt-login"><a
href="/w/index.php?title=Special:UserLogin&returnto=Licensing%2FPlexus+Classworlds+License" title="You are
encouraged to log in; however, it is not mandatory [o]" accesskey="o" >Log in</a></li>
</ul>
</div>

<!-- Top actions bar -->
<div id="p-cactions">
<h5>Views</h5>
<ul>
<li id="ca-nstab-main" class="selected"><a href="/wiki/Licensing/Plexus_Classworlds_License" title="View the
content page [c]" accesskey="c" >Page</a></li>
<li id="ca-talk" class="new"><a
href="/w/index.php?title=Talk:Licensing/Plexus_Classworlds_License&action=edit&redlink=1" title="Discussion

```

```

about the content page [t]" accesskey="t" >Discussion</a></li>
  <li id="ca-viewsources"><a href="/w/index.php?title=Licensing/Plexus_Classworlds_License&action=edit"
title="This page is protected.
You can view its source [e]" accesskey="e" >View source</a></li>
  <li id="ca-history"><a href="/w/index.php?title=Licensing/Plexus_Classworlds_License&action=history"
title="Past revisions of this page [h]" accesskey="h" >History</a></li>
</ul>
</div>

</div>
<div id="sidebar">
<div id="nav">
<!-- Sidebar -->
  <div id="p-wiki">
<h2>wiki</h2>
  <ul>
    <li id="n-mainpage"><a href="/wiki/Fedora_Project_Wiki" title="Visit the main page [z]" accesskey="z" >Fedora
Project Wiki</a></li>
    <li id="n-News"><a href="/wiki/FWN" >News</a></li>
    <li id="n-Events"><a href="/wiki/FedoraEvents" >Events</a></li>
    <li id="n-Features"><a href="/wiki/Features" >Features</a></li>
    <li id="n-recentchanges"><a href="/wiki/Special:RecentChanges" title="A list of recent changes in the wiki [r]"
accesskey="r" >Recent changes</a></li>
    <li id="n-randompage"><a href="/wiki/Special:Random" title="Load a random page [x]" accesskey="x" >Random
page</a></li>
    <li id="n-Help"><a href="/wiki/Help" title="The place to find out" >Help</a></li>
  </ul>
</div>
<div id="p-navigation">
<h2>Navigation</h2>
  <ul>
    <li id="n-Home"><a href="http://fedoraproject.org/" >Home</a></li>
    <li id="n-Get-Fedora"><a href="http://get.fedoraproject.org/" >Get Fedora</a></li>
    <li id="n-Join-Fedora"><a href="http://join.fedoraproject.org/" >Join Fedora</a></li>
  </ul>
</div>
<div id="p-sub-projects">
<h2>sub-projects</h2>
  <ul>
    <li id="n-Ambassadors"><a href="/wiki/Ambassadors" >Ambassadors</a></li>
    <li id="n-Community-Operations"><a href="/wiki/CommOps" >Community Operations</a></li>
    <li id="n-Design"><a href="/wiki/Design" >Design</a></li>
    <li id="n-Documentation"><a href="/wiki/DocsProject" >Documentation</a></li>
    <li id="n-EPEL"><a href="/wiki/EPEL" >EPEL</a></li>
    <li id="n-Infrastructure"><a href="/wiki/Infrastructure" >Infrastructure</a></li>
    <li id="n-Internationalization"><a href="/wiki/I18N" >Internationalization</a></li>
    <li id="n-Localization"><a href="/wiki/L10N" >Localization</a></li>
    <li id="n-Marketing"><a href="/wiki/Marketing" >Marketing</a></li>
  </ul>

```

```

<li id="n-Magazine"><a href="/wiki/FWN" >Magazine</a></li>
<li id="n-Package-Maintainers"><a href="/wiki/PackageMaintainers" >Package Maintainers</a></li>
<li id="n-Quality-Assurance"><a href="/wiki/QA" >Quality Assurance</a></li>
<li id="n-Websites"><a href="/wiki/Websites" >Websites</a></li>
<li id="n-All-projects"><a href="/wiki/Projects" >All projects</a></li>
</ul>
</div>
<div id="p-search">
<h2><label for="searchInput">Search</label></h2>
<form action="/wiki/Special:Search" id="searchform"><div>
<input id="searchInput" name="search" type="text" title="Search FedoraProject [f]" accesskey="f" value="" /><br
/>
<input type='submit' name="go" class="searchButton" id="searchGoButton" value="Go" />&nbsp;
<input type='submit' name="fulltext" class="searchButton" id="mw-searchButton" value="Search" />
</div></form>
</div>
<div id="p-tb">
<h2>Tools</h2>
<ul>
<li id="t-whatlinkshere"><a href="/wiki/Special:WhatLinksHere/Licensing/Plexus_Classworlds_License" title="A
list of all wiki pages that link here [j]" accesskey="j" >What links here</a></li>
<li id="t-recentchangeslinked"><a
href="/wiki/Special:RecentChangesLinked/Licensing/Plexus_Classworlds_License" title="Recent changes in pages
linked from this page [k]" accesskey="k" >Related changes</a></li>
<li id="t-specialpages"><a href="/wiki/Special:SpecialPages" title="A list of all special pages [q]" accesskey="q"
>Special pages</a></li>
<li id="t-print"><a
href="/w/index.php?title=Licensing/Plexus_Classworlds_License&printable=yes" title="Printable version of this
page [p]" accesskey="p" >Printable version</a></li> <li id="t-permalink"><a
href="/w/index.php?title=Licensing/Plexus_Classworlds_License&oldid=101686" title="Permanent link to this
revision of the page" >Permanent link</a></li> </ul>
</div>
</div>
</div><!-- end of the left (by default at least) column -->

<div id="content">
<div id="siteNotice"><div id="localNotice" lang="en" dir="ltr"></div></div> <h2>Licensing/Plexus Classworlds
License</h2>
<h3 id="siteSub">From FedoraProject</h3>
<div id="contentSub"><span class="subpages">< a href="/wiki/Licensing"
title="Licensing">Licensing</a></span></div>
<div id="jump-to-nav">Jump to: <a href="#column-one">navigation</a>, <a
href="#searchInput">search</a></div> <!-- start content -->
<div id="mw-content-text" lang="en" dir="ltr" class="mw-content-ltr"><h2> <span class="mw-headline"
id="Fedora_Notes"> Fedora Notes </span></h2>
<p>This is an Apache 1.1 derived license. Unfortunately, clause 4 is too broad, making it Free but GPL-
incompatible.
</p>

```

<h2> License Text </h2>

<pre>

/*

\$Id: LICENSE.txt 3117 2006-04-07 15:49:12Z jvanzyl \$

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*/

</pre>


```

<!--
NewPP limit report
Preprocessor node count: 9/1000000
Postexpand include size: 0/2097152 bytes
Template argument size: 0/2097152 bytes
Expensive parser function count: 0/100
-->

<!-- Saved in parser cache with key fpo-mediawiki-en_:pcache:idhash:26521-0!*!#!*!* and timestamp
20170914231553 -->
</div><div class="printfooter">
Retrieved from "<a
href="https://fedoraproject.org/w/index.php?title=Licensing/Plexus_Classworlds_License&oldid=101686">https://f
edoraproject.org/w/index.php?title=Licensing/Plexus_Classworlds_License&oldid=101686</a>"</div>
<div id="catlinks"><div id='catlinks' class='catlinks catlinks-allhidden'></div></div> <!-- end content -->
</div>

<!-- Top login, etc. bar -->
<!-- #p-personal moved to inside #content so the text color says the same -->
<script type="text/javascript"> if (window.isMSIE55) fixalpha(); </script>
</div>
<div id="bottom">
<div id="footer">
<div id="f-poweredbyico"><a href="//www.mediawiki.org/"></a></div>
<p class="copy">
Copyright &copy; 2017 Red Hat, Inc. and others. For comments or queries, <a
href="/wiki/Communicating_and_getting_help">please contact us</a>.
</p>
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maintained site. Red Hat is not responsible for content.
</p>
<ul>
<li class="first" id="lastmod"> This page was last modified on 14 May 2009, at 19:22.</li>
<li id="copyright">Content is available under <a href="/wiki/Legal:Main" title="Legal:Main">Attribution-Share
Alike 3.0 Unported</a> unless otherwise noted.</li>
</ul>
<ul>
<li class="first" id="privacy"><a href="/wiki/FedoraProject:Privacy_policy" title="FedoraProject:Privacy
policy">Privacy policy</a></li>
<li id="about"><a href="/wiki/FedoraProject:About" title="FedoraProject:About">About FedoraProject</a></li>
<li id="disclaimer"><a href="/wiki/FedoraProject:General_disclaimer" title="FedoraProject:General

```

```
disclaimer">Disclaimers</a></li>
  <li><a href="http://fedoraproject.org/en/sponsors">Sponsors</a></li>
  <li><a href="http://fedoraproject.org/wiki/Legal:Main">Legal</a></li>
  <li><a href="http://fedoraproject.org/wiki/Legal:Trademark_guidelines">Trademark Guidelines</a></li>
</ul>
</div>
</div>

<script>if(window.mw){
mw.loader.load(["mediawiki.user","mediawiki.page.ready"], null, true);
}</script>
<script
src="https://fedoraproject.org/w/load.php?debug=false&lang=en&modules=site&only=scripts&skin=fedora&*"></
script>

<!-- <script src="https://apps.fedoraproject.org/fedmenu/js/jquery-1.11.2.min.js"></script> -->
<script src="https://apps.fedoraproject.org/fedmenu/js/fedora-libravatar.js"></script>
<script src="https://apps.fedoraproject.org/fedmenu/js/fedmenu.js"></script>
<script>
  fedmenu({
    'url': 'https://apps.fedoraproject.org/js/data.js',
    'mimeType': 'application/javascript',
    'position': 'bottom-right',
  });
</script>

<!-- Served in 0.440 secs. --></body></html>
The MIT License
```

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```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
  <meta name="HandheldFriendly" content="true" />
  <link rel="shortlink" href="/node/568" />
  <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
  <link rel="canonical" href="/licenses/BSD-3-Clause" />
  <meta name="MobileOptimized" content="width" />
  <title>The 3-Clause BSD License | Open Source Initiative</title>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWrJf-fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_IPgCuu6wEwSDhUquxUkHLI7QnU.css"
media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_MnXiytJtb186Ydycnpwpw34cuUsHaKc80ey5LiQXhSY.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-3V9FM4wZ-5UDcpJ7Vfzmt45E.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3QrqJxma5HT-bUVZckUWKUzFCF4.css"
media="all" />
```

```

<!--[if (lt IE 9)]>
<link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-
business/css/ie8.css?ovik2y" media="all" />
<![endif]-->

<!-- HTML5 element support for IE6-8 -->
<!--[if lt IE 9]>
  <script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
<![endif]-->
<script type="text/javascript" src="//code.jquery.com/jquery-1.10.2.min.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
window.jQuery || document.write("<script
src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'\>\x3C/script>")
//--><![>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_V1ZuwJK9uzfm6fFffOcHHubfxnimoxnbgG58pvTQdpY.js"></script>
<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery(document).ready(function($) {
  $(window).scroll(function() {
    if($(this).scrollTop() != 0) {
      $("#toTop").fadeIn();
    } else {
      $("#toTop").fadeOut();
    }
  });

  $("#toTop").click(function() {
    $("body,html").animate({scrollTop:0},800);
  });

});
//--><![>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>
<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFIN3f2BnQwnusF-
eI6tkX8wrKak2siiZU.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{"basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"bootstrap_business","theme_token":"RTPZ5j_JjXkzUsl
Xoha-0PZHUMxujqVW-YTVUGpyd9k"},"js":{"\/code.jquery.com\/jquery-
1.10.2.min.js":1,"0":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1,"\/maxcdn.bootstrapcdn.com\/bootstrap\/3.2.0\/js

```



```

\bootstrap.min.js":1,"1":1,"sites\all\libraries\superfish\jquery.hoverIntent.minified.js":1,"sites\all\libraries\superfish\sftouchscreen.js":1,"sites\all\libraries\superfish\sfsmallscreen.js":1,"sites\all\libraries\superfish\supposition.js":1,"sites\all\libraries\superfish\superfish.js":1,"sites\all\libraries\superfish\supersubs.js":1,"sites\all\modules\superfish\superfish.js":1,"sites\all\themes\bootstrap-business\js\jquery.browser.min.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,"sites\all\modules\views\css\views.css":1,"sites\all\modules\ctools\css\ctools.css":1,"\maxcdn.bootstrapcdn.com\bootstrap\3.2.0\css\bootstrap.min.css":1,"sites\all\libraries\superfish\css\superfish.css":1,"sites\all\themes\bootstrap-business\css\style.css":1,"sites\all\themes\bootstrap-business\color\colors.css":1,"sites\all\themes\bootstrap-business\css\local.css":1,"sites\all\themes\bootstrap-business\css\ie8.css":1}},urlIsAjaxTrusted":{"\licenses\BSD-3-Clause":true},"superfish":{"1":{"id":"1","sf":{"animation":{"opacity":"show","height":"show"},"speed":"\u0027fast\u0027","autoArrows":false,"dropShadows":true,"disableHI":false},"plugins":{"touchscreen":{"mode":"window_width"},"smallscreen":{"mode":"window_width","addSelected":false,"menuClasses":false,"hyperlinkClasses":false,"title":"Navigation"},"supposition":true,"bgiframe":false,"supersubs":{"minWidth":"12","maxWidth":"27","extraWidth":1}}}}});
//--><![!]]>
</script>
</head>
<body class="html not-front not-logged-in no-sidebars page-node page-node- page-node-568 node-type-page" >
  <div id="skip-link">
    <a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
  </div>
  <div id="toTop"><span class="glyphicon glyphicon-chevron-up"></span></div>

<!-- #header-top -->
<div id="header-top" class="clearfix">
  <div class="container">

    <!-- #header-top-inside -->
    <div id="header-top-inside" class="clearfix">
      <div class="row">

        <div class="col-md-8">
          <!-- #header-top-left -->
          <div id="header-top-left" class="clearfix">
            <div class="region region-header-top-left">
              <div id="block-menu-secondary-menu" class="block block-menu clearfix">

                <div class="content">
                  <ul class="menu"><li class="first leaf"><a href="/" title="">Home</a></li>
                  <li class="leaf"><a href="/blog" title="">From the Board</a></li>
                  <li class="leaf"><a href="/contact" title="">Contact</a></li>

```

```

<li class="last leaf"><a href="/civicrm/contribute/transact?reset=1&id=2" title="">Donate</a></li>
</ul> </div>
</div>
</div>
    </div>
    <!-- EOF:#header-top-left -->
</div>

    <div class="col-md-4">
<!-- #header-top-right -->
<div id="header-top-right" class="clearfix">
    <div class="region region-header-top-right">
<div id="block-search-form" class="block block-search clearfix">

<div class="content">
    <form action="/licenses/BSD-3-Clause" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
    <h2 class="element-invisible">Search form</h2>
    <div class="form-item form-type-textfield form-item-search-block-form">
<input onblur="if (this.value == &#039;&#039;) {this.value = &#039;Search this website...&#039;;}" onfocus="if
(this.value == &#039;Search this website...&#039;) {this.value = &#039;&#039;;}" type="text" id="edit-search-
block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
name="op" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
60qz0NT1ILjLHdyR92OnuBPjsCJ16vQNtQwwtC1vu-c" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form> </div>
</div>
</div>
    </div>
    <!-- EOF:#header-top-right -->
</div>

    </div>
</div>
<!-- EOF: #header-top-inside -->

</div>
</div>
<!-- EOF: #header-top -->

<!-- header -->
<header id="header" role="banner" class="clearfix">
    <div class="container">

```

```

<!-- #header-inside -->
<div id="header-inside" class="clearfix">
  <div class="row">
    <div class="col-md-8">

      <div id="logo">
        <a href="/" title="Home" rel="home">  </a>
      </div>

      <div id="site-name">
        <a href="/" title="Home">Open Source Initiative</a>
      </div>

    </div>

    <div class="col-md-4">

  </div>
</div>
</div>
</div>
<!-- EOF: #header-inside -->

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

<!-- #main-navigation -->
<div id="main-navigation" class="clearfix">
  <div class="container">

    <!-- #main-navigation-inside -->
    <div id="main-navigation-inside" class="clearfix">
      <div class="row">
        <div class="col-md-12">
          <nav role="navigation">
            <div class="region region-navigation">
<div id="block-superfish-1" class="block block-superfish clearfix">

<div class="content">
  <ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-
items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-
children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-
depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a

```

[History](/history "History of the OSI")

- [Board](/board "Board of Directors")
- [Board - Annotated](/docs/board-annotated "OSI Board -- With Annotations")
- [Minutes](/minutes "Public Minutes of Board Meetings")
- [Organization & Operations](/organization "These portfolios represent the activities of the current OSI board.")
- [Articles of Incorporation](/articles-of-incorporation "OSI incorporation record")
- [Board Elections](/elections)
- [Bylaws](/bylaws "Bylaws of the Open Source Initiative")
- [Conflict of Interest](/conflict_of_interest_policy)
- [Trademark & Logo](/trademark)
- [Trademark Guidelines](/trademark-guidelines "OSI's Trademark Policy")
- [Logo Guidelines](/logo-usage-guidelines "Guidelines for appearance and usage of OSI Logo")
- [Terms of Service](/ToS "Rules for posting content on this site")
- [Licenses](/licenses)
- [Open Source Definition](/osd "The actual OSD defining what constitutes an Open Source licence")
- [OSD - Annotated](/osd-annotated "The OSD with explanations and rationale interspersed.")
- [Licenses by Category](/licenses/category "Licenses by Category")
- [Licenses by Name](/licenses/alphabetical "Licenses that are approved by the OSI as conforming to the OSD")
- [License Review Process](/approval "Certifying licences as OSD-compliant")
- [Licence Proliferation](/proliferation "Supporting choice while maintaining sanity")
- [LP report to the Board](/proliferation-report "License Proliferation Committee's report to the OSI Board")
- [Open Standards](/osr-intro "Open Standards Requirement for Software")
- [The Open Standards Requirement](/osr "An ")
- [Open Standards Requirement Compliance](/osr-compliance)
- [Open Standards Requirement Rationale](/osr-rationale)
- [---

Open Source Used In Data Center Network Manager 11.3\(1\)](/osr-faq "Frequently asked questions about the Open</div><div data-bbox=")

Standards Requirement" class="sf-depth-3">OSR Frequently Asked Questions<li id="menu-1842-1" class="middle odd sf-item-3 sf-depth-1 sf-total-children-3 sf-parent-children-2 sf-single-children-1 menuparent">Membership<li id="menu-914-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Individuals<li id="menu-897-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children">Join<li id="menu-675-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-3 sf-parent-children-0 sf-single-children-3 menuparent">Affiliates<li id="menu-676-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Become an Affiliate<li id="menu-677-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">List of Affiliates<li id="menu-2071-1" class="last odd sf-item-3 sf-depth-3 sf-no-children">Affiliate Criteria<li id="menu-1436-1" class="last odd sf-item-3 sf-depth-2 sf-no-children">Sponsors & Support<li id="menu-1841-1" class="middle even sf-item-4 sf-depth-1 sf-total-children-4 sf-parent-children-1 sf-single-children-3 menuparent">Community<li id="menu-63-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Mailing lists<li id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">General Code of Conduct<li id="menu-1072-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Licensing Code of Conduct<li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Disclaimer for OSI Public Forums<li id="menu-2110-1" class="last even sf-item-4 sf-depth-3 sf-no-children">Policy on Public Communications and Archives<li id="menu-2032-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Volunteers<li id="menu-1846-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Wiki<li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children">OSI Store<li id="menu-1840-1" class="middle odd sf-item-5 sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent">Resources<li id="menu-342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">FAQ<li id="menu-38-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">OSI Board Blog<li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">Getting Help<li id="menu-76-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Bibliography<li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-children">Open Source Case for Business<li id="menu-1514-1" class="middle even sf-item-4 sf-depth-2 sf-no-children">Working Groups<li id="menu-12-1" class="last odd sf-item-5 sf-depth-2 sf-no-children">Open Source Education<li id="menu-1844-1" class="last even sf-item-6 sf-depth-1 sf-total-children-2 sf-

```
parent-children-0 sf-single-children-2 menuparent"><a href="/news" title="Page dedicated to the latest news and
events." class="sf-depth-1 menuparent">News & Events</a><ul><li id="menu-1845-1" class="first odd sf-item-1
sf-depth-2 sf-no-children"><a href="/newsletters" title="Index of newsletters" class="sf-depth-
2">Newsletters</a></li><li id="menu-1999-1" class="last even sf-item-2 sf-depth-2 sf-no-children"><a
href="/events" class="sf-depth-2">Events</a></li></ul></li></ul> </div>
```

```
</div>
```

```
</div>
```

```
</nav>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<!-- EOF: #main-navigation-inside -->
```

```
</div>
```

```
</div>
```

```
<!-- EOF: #main-navigation -->
```

```
<!-- #page -->
```

```
<div id="page" class="clearfix">
```

```
<!-- #main-content -->
```

```
<div id="main-content">
```

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

```
<!-- #messages-console -->
```

```
<!-- EOF: #messages-console -->
```

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

```
<section class="col-md-12">
```

```
<!-- #main -->
```

```
<div id="main" class="clearfix">
```

```
<!-- EOF:#content-wrapper -->
```

```
<div id="content-wrapper">
```

```
<h1 class="page-title">The 3-Clause BSD License</h1>
```

```
<!-- #tabs -->
```

```
<div class="tabs">
```

```

        </div>
        <!-- EOF: #tabs -->

        <!-- #action links -->
        <!-- EOF: #action links -->

        <div class="region region-content">
        <div id="block-system-main" class="block block-system clearfix">

<div class="content">
    <article id="node-568" class="node node-page clearfix">

<div class="content">
    <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p style="font-weight:bold">
SPDX short identifier: BSD-3-Clause
</p>

<div align="right">
<button onclick="myFunction()">Further resources on the <b>3-clause BSD license</b></button>

<p id="demo"></p>

<script>
<!--/--><![CDATA[// ><!--

function myFunction() {
    var x;
    if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community, it
does not endorse any content, contributors or license interpretations from these websites. Any links to these
resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor
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purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions
about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
        x = "<br><p>The following are other community resources that may be helpful:<br><br><a
href=https://tldrlegal.com/license/bsd-3-clause-license-%28revised%29 style='font-weight: bold;'>The 3-clause
BSD license on TLDRLegal<br><a href=http://www.gnu.org/licenses/license-list.en.html>GNU License
List<br><a href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia
License List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a
href=choosealicense.com>Choosealicense";
    } else {
        x = " ";
    }
    document.getElementById("demo").innerHTML = x;
}
}

```

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

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

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

```
</div>
```

```
</div>
```

```
</div>
```

```
<!-- EOF:#content-wrapper -->
```

```
</div>
```

```
<!-- EOF:#main -->
```

```
</section>
```



```

    </div>

</div>
</div>
<!-- EOF:#main-content -->

</div>
<!-- EOF:#page -->

<footer id="subfooter" class="clearfix">
  <div class="container">

    <!-- #subfooter-inside -->
    <div id="subfooter-inside" class="clearfix">
      <div class="row">
        <div class="col-md-12">
          <!-- #subfooter-left -->
          <div class="subfooter-area">

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

<div class="content">
  <div class="filler" style="vertical-align: middle; display: inline-block;">
<p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
<a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center;
vertical-align: middle;"></a>

<a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"></a>

<a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-
cell; text-align: center; vertical-align: middle;"></a>

<a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align:
middle;"></a>

<a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"></a>
```

```
<script id="fbwiuwz">
<!--//--><![CDATA[// ><!--
(function(i){var
f,s=document.getElementById(i);f=document.createElement('iframe');f.src="//api.flattr.com/button/view/?uid=osi&u
rl=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.inse
rtBefore(f,s;)})(fbwiuwz');
//--><![ ]>
</script></p>
</div>
```

```
<br /><div class="license" style="vertical-align: middle; display: inline-block;">
<p>
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>.
</p>
<p>
<a href=" ../ToS">Terms of Service</a>
</p>
</div>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">
```

```
<div class="content">
<script src="https://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>
<!-- EOF: #subfooter-left -->
</div>
</div>
</div>
```

```
<!-- EOF: #subfooter-inside -->

</div>
</footer>
<!-- EOF:#subfooter -->
</body>
</html>
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```

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Version 1.1

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```
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<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');

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<li class="n1-news"><a href="/news/">News</a></li>
<li class="n1-bugs"><a href="/bugs">Bugs</a></li>
<li class="n1-discussion"><a href="/discussion">Discussion</a></li>
<li class="n1-download"><a href="/download">Download</a></li>
```

```

<li class="n1-api"><a href="/apidocs/">API Reference</a></li>
<li class="n1-cookbook"><a href="/cookbook/">Cookbook</a></li>
<li class="n1-try"><a href="//try.jsoup.org/">Try jsoup</a></li>
</ul>
</div>
</div>
<div class="breadcrumb">
<a href="/">jsoup</a>
<span class="seperator">&raquo;</span> jsoup License
</div>
<div class="content">
<div class="col1">
<h1>jsoup License</h1>
<p>The jsoup code-base (include source and compiled packages) are distributed under the open source MIT license as described below.</p>
<h3>The MIT License</h3>
<p>Copyright &copy; 2009 - 2016 <a href="http://jonathanhedley.com">Jonathan Hedley</a> (<a href="mailto:jonathan@hedley.net">jonathan@hedley.net</a>)</p>
<p>Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated 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">
<b>jsoup HTML parser</b> &copy; 2009 - 2016
<a href="//jhy.io/" rel="author"><b>Jonathan Hedley</b></a>
</div>
</div>
<!-- /wrap -->
<script src="/rez/prettify.js"></script>
<script>prettyPrint();</script>
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</html>

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  </dependencies>
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```
=====
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```

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1.644 xfsprogs 4.5.0 :19.e17_6

1.644.1 Available under license :

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1.645 xinetd 2.3.15 :13.el7

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1.646 xkeyboard-config 2.24 :1.el7

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1.647 xmlhttprequest-ssl 1.5.1

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1.648 xorg-x11-server 1.20.1 :5.3.el7_6

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1.649 xorg-x11-server-utils 7.7 :14.el7

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1.650 xorg-x11-xauth 1.0.9 :1.e17

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```

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```
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```

```
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```
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1.657 zip 3.0 :11.el7

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Apache log4j

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 - * <https://github.com/joewalnes/webbit>

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* <http://anonsvn.jboss.org/repos/common/common-logging-spi/>

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Apache ZooKeeper

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include/winstdint.h is included only for Windows Client support, as follows:

```
// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
//
//////////////////////////////////////////////////////////////////
```

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Net::ZooKeeper - Perl extension for Apache ZooKeeper
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This contrib depends on binary only jar libraries developed at:

<https://jersey.dev.java.net/>

<https://grizzly.dev.java.net/>

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